

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1	1	1712,176372	Empty	742,9389947	567,6352965	127,5001153	0,074466695	FALSE	559,2889346	0,035439715	559,2889346	525,0008703	173,8087594	0,10151335	FALSE	30,7%	607,5464545	209,0014202	0,122067693	FALSE	35,5%
1	2	1712,176372	Empty	692,3142699	535,5353461	127,5001153	0,074466695	FALSE	545,7137585	0,035439715	545,7137585	489,226702	173,8087594	0,10151335	FALSE	28,6%	589,1359559	209,0014202	0,122067693	FALSE	34,4%
1	3	1712,176372	Empty	777,7951155	609,005729	127,5001153	0,074466695	FALSE	607,1736786	0,035439715	607,1736786	697,9487994	173,8087594	0,10151335	FALSE	40,8%	515,4939614	209,0014202	0,122067693	FALSE	30,1%
2	1	1006,064336	Empty	409,5603106	299,7880183	55,45546453	0,055121191	FALSE	303,438911	0,055272856	303,438911	276,4954037	98,29094882	0,097698468	FALSE	27,5%	348,6361561	123,7211443	0,12297538	FALSE	34,7%
2	2	1006,064336	Empty	465,5588062	357,1356377	55,45546453	0,055121191	FALSE	362,135654	0,055272856	362,135654	314,3001574	98,29094482	0,097698468	FALSE	31,2%	288,8699579	123,7211443	0,12297538	FALSE	28,7%
2	3	1006,064336	Empty	471,2147742	349,1406803	55,45546453	0,055121191	FALSE	340,4897713	0,055272856	340,4897713	415,2687752	98,29094482	0,097698468	FALSE	41,3%	368,5582222	123,7211443	0,12297538	FALSE	36,6%
3	1	1045,014742	Empty	488,7090153	404,8348199	112,2631408	0,107427327	FALSE	423,6502888	0,160858989	423,6502888	320,4492906	196,6486701	0,188177891	FALSE	30,7%	298,5756404	218,5223203	0,209109318	FALSE	28,6%
3	2	1045,014742	Empty	454,1651407	336,0619759	112,2631408	0,107427327	FALSE	320,6484756	0,160858989	320,6484756	297,7986748	196,6486701	0,188177891	FALSE	28,5%	351,8927191	218,5223203	0,209109318	FALSE	33,7%
3	3	1045,014742	Empty	410,2095787	304,1179457	112,2631408	0,107427327	FALSE	300,7159771	0,160858989	300,7159771	426,7667761	196,6486701	0,188177891	FALSE	40,8%	394,546382	218,5223203	0,209109318	FALSE	37,8%
4	1	1335,614509	Empty	612,7642216	485,1050419	107,4752911	0,080468796	FALSE	480,5684545	0,073688868	480,5684545	421,8263806	160,5519856	0,120208327	FALSE	31,6%	555,25547	193,3012337	0,144728312	FALSE	41,6%
4	2	1335,614509	Empty	515,2488993	407,7736082	107,4752911	0,080468796	FALSE	423,4209094	0,073688868	423,4209094	354,6969138	160,5519856	0,120208327	FALSE	26,6%	450,2071378	193,3012337	0,144728312	FALSE	33,7%
4	3	1335,614509	Empty	576,9691651	442,7358587	107,4752911	0,080468796	FALSE	431,6251448	0,073688868	431,6251448	559,0912145	160,5519856	0,120208327	FALSE	41,9%	330,1519011	193,3012337	0,144728312	FALSE	24,7%
5	1	1614,645082	Empty	700,6209477	531,8067621	74,72719915	0,046280882	FALSE	547,35496	0,056935983	547,35496	460,1183983	146,4155629	0,090679719	FALSE	28,5%	526,1203076	193,9475486	0,120117759	FALSE	32,6%
5	2	1614,645082	Empty	736,4226426	542,7280414	74,72719915	0,046280882	FALSE	533,3958238	0,056935983	533,3958238	483,6304251	146,4155629	0,090679719	FALSE	30,0%	689,3990237	193,9475486	0,120117759	FALSE	42,7%
5	3	1614,645082	Empty	730,6886422	540,1102783	74,72719915	0,046280882	FALSE	533,8942979	0,056935983	533,8942979	670,8962584	146,4155629	0,090679719	FALSE	41,6%	399,1257506	193,9475486	0,120117759	FALSE	24,7%
6	1	1082,046883	Non-Empty	586,6206748	294,1060508	0	0	TRUE	295,0847882	0	323,0913625	294,6824354	0	0	TRUE	27,2%	314,5485125	0	0	TRUE	29,1%
6	2	1082,046883	Non-Empty	687,4285364	406,7545168	0	0	TRUE	413,5727486	0	382,5255147	348,8906338	0	0	TRUE	32,2%	390,0401555	0	0	TRUE	36,0%
6	3	1082,046883	Non-Empty	676,4744259	381,1857603	0	0	TRUE	373,3893461	0	376,4300058	438,4738138	0	0	TRUE	40,5%	377,458215	0	0	TRUE	34,9%
7	1	1447,173348	Empty	675,0459903	488,8505444	121,4004746	0,083887998	FALSE	495,9478728	0,045714577	495,9478728	441,7492276	168,5017915	0,116435112	FALSE	30,5%	548,9278215	183,570326	0,126847503	FALSE	37,9%
7	2	1447,173348	Empty	672,0262843	480,7357857	121,4004746	0,083887998	FALSE	482,7380613	0,045714577	482,7380613	439,7731358	168,5017915	0,116435112	FALSE	30,4%	499,0252923	183,570326	0,126847503	FALSE	34,5%
7	3	1447,173348	Empty	679,9793957	477,5870176	121,4004746	0,083887998	FALSE	468,4874136	0,045714577	468,4874136	565,6509843	168,5017915	0,116435112	FALSE	39,1%	399,2202338	183,570326	0,126847503	FALSE	27,6%
8	1	1602,650521	Empty	673,4309008	533,8018827	127,4290108	0,079511415	FALSE	552,8221999	0,075771757	552,8221999	472,5293736	188,7015198	0,117743399	FALSE	29,5%	612,2485138	280,5454848	0,175050943	FALSE	38,2%
8	2	1602,650521	Empty	666,6541571	503,7714291	127,4290108	0,079511415	FALSE	499,5380364	0,075771757	499,5380364	467,7743045	188,7015198	0,117743399	FALSE	29,2%	612,2485138	280,5454848	0,175050943	FALSE	38,2%
8	3	1602,650521	Empty	738,5134693	565,0772095	127,4290108	0,079511415	FALSE	550,290285	0,075771757	550,290285	662,3468431	188,7015198	0,117743399	FALSE	41,3%	378,1534938	280,5454848	0,175050943	FALSE	23,6%
9	1	971,2731137	Non-Empty	618,3144816	268,5213677	0	0	TRUE	264,9794139	0	298,7782518	306,0349631	0	0	TRUE	31,5%	288,1799348	0	0	TRUE	29,7%
9	2	971,2731137	Non-Empty	621,4507973	271,5782052	0	0	TRUE	267,9567732	0	300,2937636	307,5872836	0	0	TRUE	31,7%	341,5465894	0	0	TRUE	35,2%
9	3	971,2731137	Non-Empty	770,2613152	431,1735409	0	0	TRUE	438,3369266	0	372,2010983	357,650867	0	0	TRUE	36,8%	341,5465894	0	0	TRUE	35,2%
10	1	1808,743378	Empty	844,8110349	610,1874812	161,1481469	0,08909398	FALSE	611,9423495	0,064415803	611,9423495	551,5798016	204,7877078	0,113220986	FALSE	30,5%	585,6883319	170,6791775	0,094363401	FALSE	32,4%
10	2	1808,743378	Empty	865,6573422	610,8010647	161,1481469	0,08909398	FALSE	592,3232093	0,064415803	592,3232093	565,1904216	204,7877078	0,113220986	FALSE	31,2%	585,6883319	170,6791775	0,094363401	FALSE	32,4%
10	3	1808,743378	Empty	807,4102672	587,7548321	161,1481469	0,08909398	FALSE	604,4778191	0,064415803	604,4778191	691,9731547	204,7877078	0,113220986	FALSE	38,3%	637,3667141	170,6791775	0,094363401	FALSE	35,2%
11	1	797,9173803	Non-Empty	530,0229732	249,6264703	0	0	TRUE	252,2514053	0	256,7815683	236,8950644	0	0	TRUE	29,7%	240,3365603	0	0	TRUE	30,1%
11	2	797,9173803	Non-Empty	583,3041924	290,7679252	0	0	TRUE	281,2530958	0	282,5948551	260,7092357	0	0	TRUE	32,7%	278,79041	0	0	TRUE	34,9%
11	3	797,9173803	Non-Empty	533,6545281	257,5229848	0	0	TRUE	264,4128792	0	258,5409569	300,3130802	0	0	TRUE	37,6%	278,79041	0	0	TRUE	34,9%
12	1	1123,009004	Non-Empty	705,5198628	392,3182273	0	0	TRUE	375,5513944	0	393,7285086	353,8397966	0	0	TRUE	31,5%	353,3062035	0	0	TRUE	31,5%
12	2	1123,009004	Non-Empty	639,0416495	347,9771701	0	0	TRUE	353,3474933	0	356,6291026	320,4989387	0	0	TRUE	28,5%	340,6881248	0	0	TRUE	30,3%
12	3	1123,009004	Non-Empty	667,7518996	382,7136067	0	0	TRUE	394,1101163	0	372,6513928	448,6702688	0	0	TRUE	40,0%	429,0146757	0	0	TRUE	38,2%
13	1	1839,259088	Empty	832,1040375	593,8245753	109,0483322	0,059289272	FALSE	590,9280381	0,052094663	590,9280381	530,7950428	204,0777379	0,110956493	FALSE	28,9%	628,0396886	207,3448719	0,112732824	FALSE	34,1%
13	2	1839,259088	Empty	890,3370712	662,9710121	109,0483322	0,059289272	FALSE	670,987878	0,052094663	670,987878	567,9416064	204,0777379	0,110956493	FALSE	30,9%	740,189633	207,3448719	0,112732824	FALSE	40,2%
13	3	1839,259088	Empty	822,966754	582,4635006	109,0483322	0,059289272	FALSE	577,343172	0,052094663	577,343172	740,5224388	204,0777379	0,110956493	FALSE	40,3%	471,0297664	207,3448719	0,112732824	FALSE	25,6%
14	1	970,0273273	Non-Empty	634,8626367	307,5136206	0	0	TRUE	320,2504991	0	309,4200596	296,8208651	0	0	TRUE	30,6%	258,6739539	0	0	TRUE	26,7%
14	2	970,0273273	Non-Empty	644,520814	298,6645646	0	0	TRUE	292,8942097	0	314,1272728	301,3364066	0	0	TRUE	31,1%	334,1205238	0	0	TRUE	34,4%
14	3	970,0273273	Non-Empty	710,90156	363,849142	0	0	TRUE	356,8826184	0	346,4799948	371,8700555	0	0	TRUE	38,3%	377,2328495	0	0	TRUE	38,9%
15	1	1660,991448	Empty	803,5413841	582,5608895	159,5494151	0,096056735	FALSE	565,7713765	0,054837854	565,7713765	532,8990427	214,8974812	0,129379041	FALSE	32,1%	577,7361557	300,4803484	0,180904212	FALSE	34,8%
15	2	1660,991448	Empty	727,9631696	538,1245402	159,5494151	0,096056735	FALSE	552,4768924	0,054837854	552,4768924	482,7764742	214,8974812	0,129379041	FALSE	29,1%	397,193607	300,4803484	0,180904212	FALSE	23,9%
15	3	1660,991448	Empty	742,0598384	540,3060178	159,5494151	0,096056735	FALSE	542,7431788	0,054837854	542,7431788	645,3159307	214,8974812	0,129379041	FALSE	38,9%	686,0616849	300,4803484	0,180904212	FALSE	41,3%
16	1	1042,481399	Empty	488,0396453	363,1437605	26,83930887	0,0257456	FALSE	356,3881626	0,041492686	356,3881626	307,3594046	69,43267202	0,066603272	FALSE	29,5%	314,0004214	59,55967461	0,057132602	FALSE	30,1%
16	2	1042,481399	Empty	476,0043575	354,952293	26,83930887	0,0257456	FALSE	352,0405154	0,041492686	352,0405154	299,7797768	69,43267202	0,0							

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
32	1	1828,998246	Empty	866,8990636	618,3323522	173,7808246	0,095014211	FALSE	611,9351707	0,05175184	611,9351707	574,8518875	196,1390727	0,107238524	FALSE	31,4%	743,6586276	326,7777705	0,17866489	FALSE	40,7%
32	2	1828,998246	Empty	848,6237359	598,1263527	173,7808246	0,095014211	FALSE	589,7984992	0,05175184	589,7984992	562,7332834	196,1390727	0,107238524	FALSE	30,8%	422,0765184	326,7777705	0,17866489	FALSE	23,1%
32	3	1828,998246	Empty	839,9840361	612,5395413	173,7808246	0,095014211	FALSE	627,2645763	0,05175184	627,2645763	691,4130753	196,1390727	0,107238524	FALSE	37,8%	663,2631003	326,7777705	0,17866489	FALSE	36,3%
33	1	595,7340181	Non-Empty	337,2392841	159,3282989	0	0	TRUE	154,5631455	0	180,1560668	173,3768074	0	0	TRUE	29,1%	152,3970744	0	0	TRUE	25,6%
33	2	595,7340181	Non-Empty	361,6488036	200,1743743	0	0	TRUE	211,845777	0	193,1958378	185,9258927	0	0	TRUE	31,2%	263,2313103	0	0	TRUE	44,2%
33	3	595,7340181	Non-Empty	416,283426	236,2313449	0	0	TRUE	229,3250956	0	222,3821134	236,4313179	0	0	TRUE	39,7%	180,1056334	0	0	TRUE	30,2%
34	1	1378,815682	Non-Empty	799,1375652	455,1417473	0	0	TRUE	478,2206984	0	444,2925968	395,6307162	0	0	TRUE	28,7%	475,4536833	0	0	TRUE	34,5%
34	2	1378,815682	Non-Empty	879,7004176	482,4007339	0	0	TRUE	452,1758193	0	489,0827311	435,5151371	0	0	TRUE	31,6%	380,3629466	0	0	TRUE	27,6%
34	3	1378,815682	Non-Empty	801,2020058	441,2732003	0	0	TRUE	448,4191639	0	445,4403537	547,6698282	0	0	TRUE	39,7%	522,9990516	0	0	TRUE	37,9%
35	1	847,2919182	Non-Empty	432,1024558	272,4425745	0	0	TRUE	277,6129974	0	272,8585507	232,7940356	0	0	TRUE	27,5%	227,109174	0	0	TRUE	26,8%
35	2	847,2919182	Non-Empty	484,2301221	301,0751849	0	0	TRUE	282,7505518	0	305,775465	260,8776756	0	0	TRUE	30,8%	314,4588562	0	0	TRUE	37,1%
35	3	847,2919182	Non-Empty	425,4502529	273,7741588	0	0	TRUE	286,9283689	0	268,6579025	353,620207	0	0	TRUE	41,7%	305,723888	0	0	TRUE	36,1%
36	1	1652,896179	Empty	770,0057197	573,5195223	174,3207961	0,105463851	FALSE	565,8593673	0,021204668	565,8593673	513,8130777	223,0288958	0,134932187	FALSE	31,1%	650,6080706	283,2271743	0,171352065	FALSE	39,4%
36	2	1652,896179	Empty	749,0030646	558,8402085	174,3207961	0,105463851	FALSE	557,5033948	0,021204668	557,5033948	499,7983262	223,0288958	0,134932187	FALSE	30,2%	439,6000477	283,2271743	0,171352065	FALSE	26,6%
36	3	1652,896179	Empty	700,3655222	520,5364486	174,3207961	0,105463851	FALSE	529,5334174	0,021204668	529,5334174	639,2847755	223,0288958	0,134932187	FALSE	38,7%	562,6880611	283,2271743	0,171352065	FALSE	34,0%
37	1	1111,555228	Non-Empty	649,6738127	301,8219484	0	0	TRUE	302,9685483	0	334,552415	306,1485444	0	0	TRUE	27,5%	307,1402603	0	0	TRUE	27,6%
37	2	1111,555228	Non-Empty	746,282765	411,6457041	0	0	TRUE	426,0071074	0	384,301624	351,6739905	0	0	TRUE	31,6%	394,8946204	0	0	TRUE	35,5%
37	3	1111,555228	Non-Empty	762,5940423	398,0875751	0	0	TRUE	382,579572	0	392,7011887	453,7326927	0	0	TRUE	40,8%	409,520347	0	0	TRUE	36,8%
38	1	1437,134534	Non-Empty	849,76231	424,8336175	0	0	TRUE	427,9465663	0	448,7711592	426,4268991	0	0	TRUE	29,7%	479,0448448	0	0	TRUE	33,3%
38	2	1437,134534	Non-Empty	922,5523553	489,320002	0	0	TRUE	484,1292902	0	487,2125829	462,9543291	0	0	TRUE	32,2%	513,2623337	0	0	TRUE	35,7%
38	3	1437,134534	Non-Empty	948,9447931	522,9809148	0	0	TRUE	525,0586779	0	501,1507922	547,7533062	0	0	TRUE	38,1%	444,8273559	0	0	TRUE	31,0%
39	1	1525,530868	Empty	651,5110875	510,6253278	108,9490573	0,071417144	FALSE	506,3835666	0,061453358	506,3835666	455,1026257	172,1434588	0,112841675	FALSE	29,8%	610,2123471	227,7450982	0,149289079	FALSE	40,0%
39	2	1525,530868	Empty	613,4407258	491,7035863	108,9490573	0,071417144	FALSE	506,6104452	0,061453358	506,6104452	428,5091849	172,1434588	0,112841675	FALSE	28,1%	372,9075455	227,7450982	0,149289079	FALSE	24,4%
39	3	1525,530868	Empty	670,5110496	523,2019537	108,9490573	0,071417144	FALSE	512,5368561	0,061453358	512,5368561	641,9190573	172,1434588	0,112841675	FALSE	42,1%	542,4109752	227,7450982	0,149289079	FALSE	35,6%
40	1	975,4128185	Empty	410,0022712	319,3543992	77,93927944	0,079903891	FALSE	339,1606669	0,131181009	339,1606669	267,5685035	129,7251751	0,132995151	FALSE	27,4%	347,5608893	95,50803317	0,097915499	FALSE	35,6%
40	2	975,4128185	Empty	473,8231159	346,583354	77,93927944	0,079903891	FALSE	329,7977319	0,131181009	329,7977319	309,2181458	129,7251751	0,132995151	FALSE	31,7%	358,7725309	95,50803317	0,097915499	FALSE	36,8%
40	3	975,4128185	Empty	422,9498506	309,4750653	77,93927944	0,079903891	FALSE	306,4544197	0,131181009	306,4544197	398,6261692	129,7251751	0,132995151	FALSE	40,9%	269,0793982	95,50803317	0,097915499	FALSE	27,6%
41	1	1037,229403	Non-Empty	750,8215401	339,3354139	0	0	TRUE	328,0019817	0	348,0263365	322,2732664	0	0	TRUE	31,1%	301,5201752	0	0	TRUE	29,1%
41	2	1037,229403	Non-Empty	773,1587878	363,0582891	0	0	TRUE	353,1104846	0	358,3802622	331,8610278	0	0	TRUE	32,0%	349,7634032	0	0	TRUE	33,7%
41	3	1037,229403	Non-Empty	713,7071572	334,8356997	0	0	TRUE	356,1169363	0	330,822804	383,0951085	0	0	TRUE	36,9%	385,9458243	0	0	TRUE	37,2%
42	1	859,117903	Non-Empty	590,5234233	270,1440208	0	0	TRUE	273,8869785	0	277,004316	276,4202638	0	0	TRUE	32,2%	279,2133185	0	0	TRUE	32,5%
42	2	859,117903	Non-Empty	555,7326331	236,7343025	0	0	TRUE	241,8583321	0	260,6845585	260,1349159	0	0	TRUE	30,3%	300,691266	0	0	TRUE	35,0%
42	3	859,117903	Non-Empty	685,2289268	352,2395796	0	0	TRUE	343,3725924	0	321,4290284	322,5627233	0	0	TRUE	37,5%	279,2133185	0	0	TRUE	32,5%
43	1	991,801342	Non-Empty	631,2235521	305,1607773	0	0	TRUE	310,7868216	0	315,093116	297,8798935	0	0	TRUE	30,0%	365,4004944	0	0	TRUE	36,8%
43	2	991,801342	Non-Empty	648,1195542	323,1069684	0	0	TRUE	329,7832017	0	323,5272341	305,8532641	0	0	TRUE	30,8%	302,7604097	0	0	TRUE	30,5%
43	3	991,801342	Non-Empty	707,5246931	363,5335964	0	0	TRUE	351,2313188	0	353,1809919	388,0681845	0	0	TRUE	39,1%	323,6404379	0	0	TRUE	32,6%
44	1	1561,313913	Non-Empty	937,8864579	566,7829876	0	0	TRUE	598,6136272	0	528,6186741	471,3818687	0	0	TRUE	30,2%	569,2290306	0	0	TRUE	36,5%
44	2	1561,313913	Non-Empty	895,9009537	484,6294552	0	0	TRUE	476,2920666	0	504,954486	450,2799483	0	0	TRUE	28,8%	487,9105977	0	0	TRUE	31,3%
44	3	1561,313913	Non-Empty	936,3288307	509,9014698	0	0	TRUE	486,4082188	0	527,7407525	639,6520956	0	0	TRUE	41,0%	504,1742843	0	0	TRUE	32,3%
45	1	1327,791893	Non-Empty	783,3775711	411,6864724	0	0	TRUE	404,2104721	0	429,7415332	414,6901527	0	0	TRUE	31,2%	509,5015405	0	0	TRUE	38,4%
45	2	1327,791893	Non-Empty	753,8030319	388,8986889	0	0	TRUE	388,2094443	0	413,5176735	399,0345217	0	0	TRUE	30,1%	370,5465749	0	0	TRUE	27,9%
45	3	1327,791893	Non-Empty	883,2565855	527,206732	0	0	TRUE	535,3719769	0	484,5326867	514,0672189	0	0	TRUE	38,7%	447,743778	0	0	TRUE	33,7%
46	1	842,3616725	Non-Empty	604,2359704	265,2682195	0	0	TRUE	256,3202677	0	277,7665194	261,3847204	0	0	TRUE	31,0%	341,4979754	0	0	TRUE	40,5%
46	2	842,3616725	Non-Empty	580,8503172	259,0973498	0	0	TRUE	267,3641815	0	267,0161638	251,2683872	0	0	TRUE	29,8%	227,6653169	0	0	TRUE	27,0%
46	3	842,3616725	Non-Empty	647,3347825	317,9961033	0	0	TRUE	318,6772233	0	297,5789893	329,708565	0	0	TRUE	39,1%	273,1983803	0	0	TRUE	32,4%
47	1	1138,91685	Empty	505,8261984	369,4044726	70,24037757	0,061672964	FALSE	361,4456152	0,052236409	361,4456152	340,1192115	112,4584242	0,098741558	FALSE	29,9%	428,6246209	145,5297152	0,127779052	FALSE	37,6%
47	2	1138,91685	Empty	504,5063402	381,4497811	70,24037757	0,061672964	FALSE	386,8560905	0,052236409	386,8560905	339,2317345	112,4584242	0,098741558	FALSE	29,8%	306,1604435	145,5297152	0,127779052	FALSE	26,9%
47	3	1138,91685	Empty	513,9729166	388,062596	70,24037757	0,061672964	FALSE	390,615144	0,052236409	390,615144	459,5659037	112,4584242	0,098741558	FALSE	40,4%	404,1317854	145,5297152	0,127779052	FALSE	35,5%
48	1	1159,297278	Non-Empty	666,0925682	398,223673	0	0	TRUE	406,0144148	0	388,7673353	344,6301476	0	0	TRUE	29,7%	382,1859159	0	0	TRUE	33,0%
48	2	1159,297278	Non-Empty	660,7292804	378,1064336	0	0	TRUE	371,1432238	0	385,637033	341,8552321	0	0	TRUE	29,5%	356,7068548	0	0	TRUE	30,8%
48	3	1159,297278	Non-Empty	659,4543407	382,9671716	0	0	TRUE	382,1396395	0	384,8929098	472,8118984	0	0	TRUE	40,8%	420,4045075	0	0	TRUE	36,3%
49	1	1004,173348	Empty	447,4856521	336,5473156	74,03953244	0,073731824	FALSE	324,2477142	0,183936068	324,2477142	290,2851083									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
63	1	1501,700447	Empty	687,1945909	536,2516233	69,61776292	0,046359288	FALSE	548,2181807	0,091672356	548,2181807	441,2596913	164,609695	0,109615533	FALSE	29,4%	453,6386767	152,2307095	0,101372221	FALSE	30,2%
63	2	1501,700447	Empty	680,4490826	498,9990265	69,61776292	0,046359288	FALSE	480,4584954	0,091672356	480,4584954	436,9282821	164,609695	0,109615533	FALSE	29,1%	453,6386767	152,2307095	0,101372221	FALSE	30,2%
63	3	1501,700447	Empty	622,7853485	466,4497973	69,61776292	0,046359288	FALSE	473,023771	0,091672356	473,023771	623,5124737	164,609695	0,109615533	FALSE	41,5%	594,4230936	152,2307095	0,101372221	FALSE	39,6%
64	1	1070,58132	Non-Empty	535,8446627	343,9139022	0	0	TRUE	334,6879139	0	354,3997237	313,6623546	0	0	TRUE	29,3%	315,5397574	0	0	TRUE	29,5%
64	2	1070,58132	Non-Empty	530,1755761	338,8127636	0	0	TRUE	330,1547233	0	350,6502737	310,3438946	0	0	TRUE	29,0%	326,8090344	0	0	TRUE	30,5%
64	3	1070,58132	Non-Empty	552,6753972	387,8546537	0	0	TRUE	405,7386824	0	365,5313222	446,5750704	0	0	TRUE	41,7%	428,2325278	0	0	TRUE	40,0%
65	1	1962,763995	Empty	948,9854392	757,0574284	162,1439785	0,082610023	FALSE	774,158411	0,093037536	774,158411	624,3890594	294,8123475	0,150202647	FALSE	31,8%	702,7179735	216,4834334	0,110295193	FALSE	35,8%
65	2	1962,763995	Empty	815,580135	598,0006503	162,1439785	0,082610023	FALSE	589,450159	0,093037536	589,450159	536,6144645	294,8123475	0,150202647	FALSE	27,3%	654,2546649	216,4834334	0,110295193	FALSE	33,3%
65	3	1962,763995	Empty	825,2854008	607,7059161	162,1439785	0,082610023	FALSE	599,1554248	0,093037536	599,1554248	801,7604709	294,8123475	0,150202647	FALSE	40,8%	605,7913564	216,4834334	0,110295193	FALSE	30,9%
66	1	1366,029942	Empty	611,5560404	471,3613168	130,0802367	0,095225026	FALSE	475,1607238	0,086406549	475,1607238	415,490353	184,6316849	0,135159325	FALSE	30,4%	508,2902109	181,7204568	0,133028165	FALSE	37,2%
66	2	1366,029942	Empty	580,2050014	448,7419474	130,0802367	0,095225026	FALSE	461,2730239	0,086406549	461,2730239	394,1904991	184,6316849	0,135159325	FALSE	28,9%	397,1017272	181,7204568	0,133028165	FALSE	29,1%
66	3	1366,029942	Empty	606,2512917	445,9266775	130,0802367	0,095225026	FALSE	429,596194	0,086406549	429,596194	556,3490896	184,6316849	0,135159325	FALSE	40,7%	460,6380036	181,7204568	0,133028165	FALSE	33,7%
67	1	1296,300956	Empty	504,5581531	400,3913743	183,9365196	0,141893376	FALSE	413,6515041	0,0584791	413,6515041	376,249585	208,0783088	0,160516976	FALSE	29,0%	478,3967814	223,7990274	0,172644343	FALSE	36,9%
67	2	1296,300956	Empty	562,5412114	436,7025534	183,9365196	0,141893376	FALSE	428,2908041	0,0584791	428,2908041	419,4876171	208,0783088	0,160516976	FALSE	32,4%	416,6681644	223,7990274	0,172644343	FALSE	32,1%
67	3	1296,300956	Empty	581,4823176	459,2070284	183,9365196	0,141893376	FALSE	454,3586479	0,0584791	454,3586479	500,563754	208,0783088	0,160516976	FALSE	38,6%	401,2360102	223,7990274	0,172644343	FALSE	31,0%
68	1	1619,068501	Empty	686,4414758	518,2014778	168,239998	0,1039116	FALSE	525,1829234	0,021717877	525,1829234	483,2636001	203,1778757	0,125490599	FALSE	29,8%	533,7588465	348,7716386	0,215414998	FALSE	33,0%
68	2	1619,068501	Empty	716,6641818	537,0920185	168,239998	0,1039116	FALSE	532,7412988	0,021717877	532,7412988	504,5407727	203,1778757	0,125490599	FALSE	31,2%	711,6784619	348,7716386	0,215414998	FALSE	44,0%
68	3	1619,068501	Empty	741,6271739	563,7750045	168,239998	0,1039116	FALSE	561,1442787	0,021717877	561,1442787	631,2641281	203,1778757	0,125490599	FALSE	39,0%	373,6311925	348,7716386	0,215414998	FALSE	23,1%
69	1	908,0642009	Non-Empty	674,3139635	326,4536314	0	0	TRUE	320,6935622	0	316,5485178	289,5297782	0	0	TRUE	31,9%	295,6488096	0	0	TRUE	32,6%
69	2	908,0642009	Non-Empty	609,6820497	299,3256675	0	0	TRUE	331,0695483	0	286,2078491	261,7788125	0	0	TRUE	28,8%	306,2076956	0	0	TRUE	33,7%
69	3	908,0642009	Non-Empty	650,3689768	282,284902	0	0	TRUE	256,3010903	0	305,307834	356,7556102	0	0	TRUE	39,3%	306,2076956	0	0	TRUE	33,7%
70	1	1934,604272	Empty	868,0331531	651,5768853	188,4543836	0,097412368	FALSE	649,0015693	0,010294415	649,0015693	589,018514	254,739161	0,131675074	FALSE	30,4%	593,5717653	241,7387511	0,124955142	FALSE	30,7%
70	2	1934,604272	Empty	864,939675	653,2041597	188,4543836	0,097412368	FALSE	655,3495963	0,010294415	655,3495963	586,9193823	254,739161	0,131675074	FALSE	30,3%	681,5083231	241,7387511	0,124955142	FALSE	35,2%
70	3	1934,604272	Empty	843,2742994	629,8232269	188,4543836	0,097412368	FALSE	630,2531063	0,010294415	630,2531063	758,6663756	254,739161	0,131675074	FALSE	39,2%	659,5241836	241,7387511	0,124955142	FALSE	34,1%
71	1	1028,861111	Non-Empty	513,2161653	326,0941723	0	0	TRUE	345,1130788	0	320,5447362	265,0803913	0	0	TRUE	25,8%	251,2335272	0	0	TRUE	24,4%
71	2	1028,861111	Non-Empty	626,7013444	406,3309335	0	0	TRUE	392,101422	0	391,4253499	323,6964243	0	0	TRUE	31,5%	358,9050389	0	0	TRUE	34,9%
71	3	1028,861111	Non-Empty	507,3663002	296,4360057	0	0	TRUE	291,6466106	0	316,8910253	440,0842959	0	0	TRUE	42,8%	418,7225454	0	0	TRUE	40,7%
72	1	854,7367608	Non-Empty	684,2169157	303,6623756	0	0	TRUE	303,3442182	0	293,0800317	282,0374758	0	0	TRUE	33,0%	331,8389777	0	0	TRUE	38,8%
72	2	854,7367608	Non-Empty	646,6185419	261,8979295	0	0	TRUE	257,4136999	0	276,9750037	266,5392468	0	0	TRUE	31,2%	261,4488915	0	0	TRUE	30,6%
72	3	854,7367608	Non-Empty	664,6104514	289,1764556	0	0	TRUE	293,9788426	0	284,6817254	306,1600381	0	0	TRUE	35,8%	261,4488915	0	0	TRUE	30,6%
73	1	1433,524076	Non-Empty	910,0537627	522,4644151	0	0	TRUE	519,7459334	0	504,0630166	445,9359322	0	0	TRUE	31,1%	499,3173748	0	0	TRUE	34,8%
73	2	1433,524076	Non-Empty	842,8649785	459,4408214	0	0	TRUE	460,8875303	0	466,8483128	413,0127201	0	0	TRUE	28,8%	434,8893264	0	0	TRUE	30,3%
73	3	1433,524076	Non-Empty	835,2179325	451,6188394	0	0	TRUE	452,8906122	0	462,6127465	574,5754237	0	0	TRUE	40,1%	499,3173748	0	0	TRUE	34,8%
74	1	809,5601275	Non-Empty	594,4701412	244,0026546	0	0	TRUE	263,7040792	0	250,6471691	236,4262897	0	0	TRUE	29,2%	266,4375103	0	0	TRUE	32,9%
74	2	809,5601275	Non-Empty	692,2118548	315,8772957	0	0	TRUE	309,7116478	0	291,8581268	275,2990758	0	0	TRUE	34,0%	317,6754931	0	0	TRUE	39,2%
74	3	809,5601275	Non-Empty	633,3848652	249,6801772	0	0	TRUE	236,1444005	0	267,0548316	297,834762	0	0	TRUE	36,8%	225,4471241	0	0	TRUE	27,8%
75	1	1253,363717	Non-Empty	708,4753926	418,8921415	0	0	TRUE	402,4329661	0	428,4083334	378,4079877	0	0	TRUE	30,2%	443,8996497	0	0	TRUE	35,4%
75	2	1253,363717	Non-Empty	683,9015226	416,8221385	0	0	TRUE	422,86683	0	413,5487479	365,2826925	0	0	TRUE	29,1%	365,5644174	0	0	TRUE	29,2%
75	3	1253,363717	Non-Empty	680,3590286	417,6494369	0	0	TRUE	428,0639208	0	411,4066355	509,6730367	0	0	TRUE	40,7%	443,8996497	0	0	TRUE	35,4%
76	1	934,2381562	Non-Empty	778,3389507	334,1880133	0	0	TRUE	316,2745153	0	328,5902484	305,9288095	0	0	TRUE	32,7%	280,2714468	0	0	TRUE	30,0%
76	2	934,2381562	Non-Empty	730,2084133	311,8338778	0	0	TRUE	319,6967819	0	308,2710478	287,0109357	0	0	TRUE	30,7%	326,9833547	0	0	TRUE	35,0%
76	3	934,2381562	Non-Empty	704,4031106	288,2162651	0	0	TRUE	298,266859	0	297,3768599	341,2984109	0	0	TRUE	36,5%	326,9833547	0	0	TRUE	35,0%
77	1	973,3904231	Non-Empty	542,7967764	325,8882895	0	0	TRUE	344,1131806	0	314,7225135	268,5578898	0	0	TRUE	27,6%	356,1184475	0	0	TRUE	36,6%
77	2	973,3904231	Non-Empty	607,2234823	350,0622326	0	0	TRUE	328,034361	0	352,0781791	300,4340927	0	0	TRUE	30,9%	284,894758	0	0	TRUE	29,3%
77	3	973,3904231	Non-Empty	528,7702985	297,439901	0	0	TRUE	301,2428815	0	306,5897305	404,3984406	0	0	TRUE	41,5%	332,3772176	0	0	TRUE	34,1%
78	1	1120,832491	Empty	510,3858055	348,4874664	49,90679719	0,044526544	FALSE	347,0083794	0,06502894	347,0083794	325,4968307	95,43392845	0,085145576	FALSE	29,0%	391,6161716	142,3322157	0,126987946	FALSE	34,9%
78	2	1120,832491	Empty	539,3778623	389,5135486	49,90679719	0,044526544	FALSE	400,068487	0,06502894	400,068487	343,9864174	95,43392845	0,085145576	FALSE	30,7%	297,0881301	142,3322157	0,126987946	FALSE	26,5%
78	3	1120,832491	Empty	552,3265793	382,831476	49,90679719	0,044526544	FALSE	373,7556247	0,06502894	373,7556247	451,349243	95,43392845	0,085145576	FALSE	40,3%	432,1281893	142,3322157	0,126987946	FALSE	38,6%
79	1	1184,64361	Non-Empty	680,1490688	414,087649	0	0	TRUE	399,4076947	0	415,5865651	370,3521299	0	0	TRUE	31,3%	386,5679149	0	0	TRUE	32,6%
79	2	1184,64361	Non-Empty	575,6457395	353,6241824	0	0	TRUE	382,9840908	0	351,7326518	313,4483828	0	0	TRUE	26,5%	411,5077804	0	0	TRUE	34,

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
94	1	1803,031954	Empty	772,8491155	598,7857887	137,0307877	0,076000199	FALSE	622,3064018	0,084008053	622,3064018	521,0257682	214,7908083	0,119127566	FALSE	28,9%	732,4817312	203,5211724	0,112877186	FALSE	40,6%
94	2	1803,031954	Empty	809,2202571	597,6240672	137,0307877	0,076000199	FALSE	583,6118171	0,084008053	583,6118171	545,5458221	214,7908083	0,119127566	FALSE	30,3%	563,4474856	203,5211724	0,112877186	FALSE	31,3%
94	3	1803,031954	Empty	813,7144008	606,6220979	137,0307877	0,076000199	FALSE	597,1137348	0,084008053	597,1137348	736,4603635	214,7908083	0,119127566	FALSE	40,8%	507,102737	203,5211724	0,112877186	FALSE	28,1%
95	1	677,2537102	Non-Empty	414,2237484	181,587548	0	0	TRUE	188,8697059	0	200,810885	190,1847886	0	0	TRUE	28,1%	228,683071	0	0	TRUE	33,8%
95	2	677,2537102	Non-Empty	495,7774048	247,200932	0	0	TRUE	238,5428175	0	240,3471549	227,6289597	0	0	TRUE	33,6%	228,683071	0	0	TRUE	33,8%
95	3	677,2537102	Non-Empty	487,0076318	248,4652302	0	0	TRUE	249,8411869	0	236,0956703	259,439962	0	0	TRUE	38,3%	219,8875683	0	0	TRUE	32,5%
96	1	955,0197734	Empty	420,9533658	304,2843109	34,73423867	0,036370177	FALSE	310,4898059	0,037189592	310,4898059	270,3134799	68,70506958	0,071940992	FALSE	28,3%	295,3669402	43,6516093	0,045707545	FALSE	30,9%
96	2	955,0197734	Empty	454,0286883	330,7213827	34,73423867	0,036370177	FALSE	330,288627	0,037189592	330,288627	291,5526628	68,70506958	0,071940992	FALSE	30,5%	334,7491989	43,6516093	0,045707545	FALSE	35,1%
96	3	955,0197734	Empty	448,6613692	320,0140799	34,73423867	0,036370177	FALSE	314,2413405	0,037189592	314,2413405	393,1536306	68,70506958	0,071940992	FALSE	41,2%	324,9036342	43,6516093	0,045707545	FALSE	34,0%
97	1	1986,733171	Empty	883,7697712	657,5983131	159,2995998	0,080181678	FALSE	643,3526524	0,058458803	643,3526524	611,3968819	204,6735019	0,103020126	FALSE	30,8%	654,9669796	171,0901252	0,086116308	FALSE	33,0%
97	2	1986,733171	Empty	849,1948261	640,5451206	159,2995998	0,080181678	FALSE	643,8212123	0,058458803	643,8212123	587,4777411	204,6735019	0,103020126	FALSE	29,6%	654,9669796	171,0901252	0,086116308	FALSE	33,0%
97	3	1986,733171	Empty	889,5459659	688,5897377	159,2995998	0,080181678	FALSE	699,5593067	0,058458803	699,5593067	787,8585484	204,6735019	0,103020126	FALSE	39,7%	676,7992122	171,0901252	0,086116308	FALSE	34,1%
98	1	1486,09144	Empty	659,8893118	464,9987521	133,0331731	0,089518834	FALSE	457,5720283	0,101409476	457,5720283	431,3410672	135,3224006	0,091059269	FALSE	29,0%	561,8150564	218,4479925	0,146994987	FALSE	37,8%
98	2	1486,09144	Empty	744,6792004	536,9704086	133,0331731	0,089518834	FALSE	516,7254527	0,101409476	516,7254527	486,7645457	135,3224006	0,091059269	FALSE	32,8%	525,5689237	218,4479925	0,146994987	FALSE	35,4%
98	3	1486,09144	Empty	643,9144351	484,1222788	133,0331731	0,089518834	FALSE	511,7939584	0,101409476	511,7939584	567,9858266	135,3224006	0,091059269	FALSE	38,2%	398,7074594	218,4479925	0,146994987	FALSE	26,8%
99	1	1353,012691	Non-Empty	708,0213912	391,6446597	0	0	TRUE	407,8520722	0	407,5106945	359,206736	0	0	TRUE	26,5%	510,5708268	14,05645773	0,010389007	FALSE	37,7%
99	2	1353,012691	Non-Empty	861,4195381	523,2967851	0	0	TRUE	517,7581761	0	495,8009441	437,0315706	0	0	TRUE	32,3%	331,8710374	14,05645773	0,010389007	FALSE	24,5%
99	3	1353,012691	Non-Empty	781,3241934	438,071246	0	0	TRUE	427,4024426	0	449,7010523	556,7743843	0	0	TRUE	41,2%	510,5708268	14,05645773	0,010389007	FALSE	37,7%
100	1	1325,157109	Non-Empty	791,928971	443,4171136	0	0	TRUE	440,5794433	0	444,2635415	395,9659055	0	0	TRUE	29,9%	452,1124256	0	0	TRUE	34,1%
100	2	1325,157109	Non-Empty	800,1606593	446,9366709	0	0	TRUE	439,3868696	0	448,8814291	400,0817644	0	0	TRUE	30,2%	405,3421747	0	0	TRUE	30,6%
100	3	1325,157109	Non-Empty	770,0900403	434,8033249	0	0	TRUE	445,1907965	0	432,0121388	529,1094396	0	0	TRUE	39,9%	467,7025092	0	0	TRUE	35,3%
101	1	949,1417796	Non-Empty	623,4749198	318,0457739	0	0	TRUE	327,6461592	0	312,4045012	269,9561754	0	0	TRUE	28,4%	360,4335872	0	0	TRUE	38,0%
101	2	949,1417796	Non-Empty	672,1724637	333,7188785	0	0	TRUE	310,2948246	0	336,8053735	291,0415508	0	0	TRUE	30,7%	264,3179639	0	0	TRUE	27,8%
101	3	949,1417796	Non-Empty	598,5829897	297,3771272	0	0	TRUE	311,2007958	0	299,9319049	388,1440534	0	0	TRUE	40,9%	324,3902285	0	0	TRUE	34,2%
102	1	1520,660541	Empty	791,9899336	601,5190116	137,4548989	0,090391573	FALSE	600,8136631	0,064635403	600,8136631	510,144316	221,2000616	0,145463143	FALSE	33,5%	598,0125722	196,0937888	0,128953033	FALSE	39,3%
102	2	1520,660541	Empty	637,2213318	454,3799287	137,4548989	0,090391573	FALSE	461,3041131	0,064635403	461,3041131	410,4532388	221,2000616	0,145463143	FALSE	27,0%	529,6682782	196,0937888	0,128953033	FALSE	34,8%
102	3	1520,660541	Empty	660,7460099	464,7616004	137,4548989	0,090391573	FALSE	458,5427645	0,064635403	458,5427645	600,0629858	221,2000616	0,145463143	FALSE	39,5%	392,9796903	196,0937888	0,128953033	FALSE	25,8%
103	1	1780,024133	Empty	834,0237852	586,2304429	200,5548701	0,112669748	FALSE	567,7045316	0,083220872	567,7045316	550,162709	231,2327064	0,129904254	FALSE	30,9%	580,8499803	327,5696555	0,184025401	FALSE	32,6%
103	2	1780,024133	Empty	856,1592696	622,5839257	200,5548701	0,112669748	FALSE	618,2760129	0,083220872	618,2760129	564,7643526	231,2327064	0,129904254	FALSE	31,7%	468,4274035	327,5696555	0,184025401	FALSE	26,3%
103	3	1780,024133	Empty	777,6433716	571,2097645	200,5548701	0,112669748	FALSE	594,0435886	0,083220872	594,0435886	665,0970715	231,2327064	0,129904254	FALSE	37,4%	730,7467494	327,5696555	0,184025401	FALSE	41,1%
104	1	938,2984823	Non-Empty	591,8692508	329,7408229	0	0	TRUE	320,2100588	0	327,4292858	294,6166412	0	0	TRUE	31,4%	302,9922182	0	0	TRUE	32,3%
104	2	938,2984823	Non-Empty	556,9488071	309,1809328	0	0	TRUE	314,0107224	0	308,1108705	277,2341807	0	0	TRUE	29,5%	351,8619309	0	0	TRUE	37,5%
104	3	938,2984823	Non-Empty	547,2734157	299,3767265	0	0	TRUE	304,0777012	0	302,758326	366,4476604	0	0	TRUE	39,1%	283,4443332	0	0	TRUE	30,2%
105	1	1248,70346	Non-Empty	730,1224434	423,3804248	0	0	TRUE	407,1319106	0	430,0128823	377,1913307	0	0	TRUE	30,2%	301,4111801	0	0	TRUE	24,1%
105	2	1248,70346	Non-Empty	698,5667426	423,1951881	0	0	TRUE	438,3171379	0	411,4278382	360,8892202	0	0	TRUE	28,9%	459,2932268	0	0	TRUE	36,8%
105	3	1248,70346	Non-Empty	691,4947876	402,1278476	0	0	TRUE	403,2544119	0	407,2627399	510,6229095	0	0	TRUE	40,9%	487,9990535	0	0	TRUE	39,1%
106	1	1546,811522	Empty	790,5340168	563,8194381	166,7372769	0,107794178	FALSE	552,2882573	0,061932234	552,2882573	506,8244959	192,1882395	0,124248001	FALSE	32,8%	611,9254372	298,9854636	0,193291464	FALSE	39,6%
106	2	1546,811522	Empty	724,3661954	500,7011797	166,7372769	0,107794178	FALSE	492,2195617	0,061932234	492,2195617	464,403206	192,1882395	0,124248001	FALSE	30,0%	339,9585762	298,9854636	0,193291464	FALSE	22,0%
106	3	1546,811522	Empty	677,461503	482,290904	166,7372769	0,107794178	FALSE	502,3037028	0,061932234	502,3037028	575,58382	192,1882395	0,124248001	FALSE	37,2%	594,9275084	298,9854636	0,193291464	FALSE	38,5%
107	1	1369,346975	Empty	528,8994575	425,2089492	99,39744481	0,072587479	FALSE	434,2949681	0,050651748	434,2949681	384,1232896	140,4831043	0,102591313	FALSE	28,1%	485,8973138	172,4354623	0,125925325	FALSE	35,5%
107	2	1369,346975	Empty	571,9197449	449,8973398	99,39744481	0,072587479	FALSE	440,651462	0,050651748	440,651462	415,3675915	140,4831043	0,102591313	FALSE	30,3%	471,1731528	172,4354623	0,125925325	FALSE	34,4%
107	3	1369,346975	Empty	606,8573547	494,2406862	99,39744481	0,072587479	FALSE	494,4005451	0,050651748	494,4005451	569,8560941	140,4831043	0,102591313	FALSE	41,6%	412,2765087	172,4354623	0,125925325	FALSE	30,1%
108	1	885,2873007	Non-Empty	603,6638186	265,9737689	0	0	TRUE	272,0055283	0	278,8568195	263,5107184	0	0	TRUE	29,8%	337,252305	0	0	TRUE	38,1%
108	2	885,2873007	Non-Empty	663,0861909	324,5340118	0	0	TRUE	329,7036417	0	306,3064252	289,4497122	0	0	TRUE	32,7%	236,0766135	0	0	TRUE	26,7%
108	3	885,2873007	Non-Empty	649,7027183	294,77952	0	0	TRUE	283,5781307	0	300,124056	332,3268701	0	0	TRUE	37,5%	311,9538821	0	0	TRUE	35,2%
109	1	1522,434262	Empty	738,4624433	503,3865502	176,743322	0,11609258	FALSE	487,3670344	0,107852988	487,3670344	493,8971344	157,6481111	0,103550028	FALSE	32,4%	608,9737048	243,2349327	0,159767117	FALSE	40,0%
109	2	1522,434262	Empty	720,0266263	491,1727192	176,743322	0,11609258	FALSE	481,3751896	0,107852988	481,3751896	481,5669241	157,6481111	0,103550028	FALSE	31,6%	389,0665336	243,2349327	0,159767117	FALSE	25,6%
109	3	1522,434262	Empty	721,1143246	527,8749925	176,743322	0,11609258	FALSE	553,6920379	0,107852988	553,6920379	546,9702035	157,6481111	0,1							

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
125	1	1585,954315	Empty	757,1396718	526,9568926	155,3036734	0,097924431	FALSE	538,2174137	0,098394003	538,2174137	482,6242928	208,3474724	0,131370412	FALSE	30,4%	541,0902958	179,1854729	0,112982746	FALSE	34,1%
125	2	1585,954315	Empty	773,8406441	546,3138092	155,3036734	0,097924431	FALSE	560,2302745	0,098394003	560,2302745	493,2700102	208,3474724	0,131370412	FALSE	31,1%	522,4320097	179,1854729	0,112982746	FALSE	32,9%
125	3	1585,954315	Empty	779,3039	512,6836134	155,3036734	0,097924431	FALSE	487,506627	0,098394003	487,506627	610,0600121	208,3474724	0,131370412	FALSE	38,5%	522,4320097	179,1854729	0,112982746	FALSE	32,9%
126	1	1583,53357	Empty	667,4678851	518,5547309	111,8627783	0,070641242	FALSE	522,5095227	0,028748249	522,5095227	454,9982972	174,3614946	0,110109124	FALSE	28,7%	537,5297439	161,9634431	0,102279766	FALSE	33,9%
126	2	1583,53357	Empty	705,3341427	543,4988955	111,8627783	0,070641242	FALSE	534,5315943	0,028748249	534,5315943	480,810899	174,3614946	0,110109124	FALSE	30,4%	479,4184202	161,9634431	0,102279766	FALSE	30,3%
126	3	1583,53357	Empty	669,3353802	521,4799434	111,8627783	0,070641242	FALSE	526,4924528	0,028748249	526,4924528	647,7243737	174,3614946	0,110109124	FALSE	40,9%	566,5854057	161,9634431	0,102279766	FALSE	35,8%
127	1	1624,979869	Empty	708,7530337	536,7796346	171,9733992	0,105831095	FALSE	542,7075762	0,033818636	542,7075762	491,2334678	217,5195659	0,133859853	FALSE	30,2%	494,5590906	214,1939432	0,13181329	FALSE	30,4%
127	2	1624,979869	Empty	727,0097367	540,6045239	171,9733992	0,105831095	FALSE	532,1006519	0,033818636	532,1006519	503,8871047	217,5195659	0,133859853	FALSE	31,0%	582,8732139	214,1939432	0,13181329	FALSE	35,9%
127	3	1624,979869	Empty	722,9211208	547,5957105	171,9733992	0,105831095	FALSE	550,1716409	0,033818636	550,1716409	629,8592964	217,5195659	0,133859853	FALSE	38,8%	547,5475646	214,1939432	0,13181329	FALSE	33,7%
128	1	1896,27958	Empty	909,6674224	686,1333975	112,786727	0,0594779	FALSE	677,5675222	0,007676095	677,5675222	611,5564659	166,0958665	0,087590389	FALSE	32,3%	632,0931932	145,5591392	0,076760379	FALSE	33,3%
128	2	1896,27958	Empty	761,5296477	559,2634148	112,786727	0,0594779	FALSE	571,9653316	0,007676095	571,9653316	511,9655476	166,0958665	0,087590389	FALSE	27,0%	530,1426782	145,5591392	0,076760379	FALSE	28,0%
128	3	1896,27958	Empty	869,9869585	650,8827673	112,786727	0,0594779	FALSE	646,7467259	0,007676095	646,7467259	772,757566	166,0958665	0,087590389	FALSE	40,8%	734,0437082	145,5591392	0,076760379	FALSE	38,7%
129	1	1969,456986	Empty	874,1956142	650,3301882	179,1861986	0,09098254	FALSE	645,5842472	0,137874006	645,5842472	580,4093383	204,4278213	0,103799079	FALSE	29,5%	733,3084523	291,1751311	0,147845387	FALSE	37,2%
129	2	1969,456986	Empty	937,6529439	683,3461138	179,1861986	0,09098254	FALSE	648,1587687	0,137874006	648,1587687	622,5409003	204,4278213	0,103799079	FALSE	31,6%	712,3567822	291,1751311	0,147845387	FALSE	36,2%
129	3	1969,456986	Empty	814,9668827	635,7806841	179,1861986	0,09098254	FALSE	675,7139703	0,137874006	675,7139703	766,5067476	204,4278213	0,103799079	FALSE	38,9%	523,7917516	291,1751311	0,147845387	FALSE	26,6%
130	1	1413,468147	Non-Empty	786,3294021	458,7568797	0	0	TRUE	434,7890108	0	478,1913346	419,016946	0	0	TRUE	29,6%	388,7037404	0	0	TRUE	27,5%
130	2	1413,468147	Non-Empty	773,9999943	488,539589	0	0	TRUE	506,6838373	0	470,6934387	412,4468867	0	0	TRUE	29,2%	565,3872588	0	0	TRUE	40,0%
130	3	1413,468147	Non-Empty	763,9527112	466,1716783	0	0	TRUE	471,995299	0	464,5833738	582,0043143	0	0	TRUE	41,2%	459,3771478	0	0	TRUE	32,5%
131	1	1383,777647	Empty	552,820997	436,652169	129,3273884	0,09345966	FALSE	465,1785845	0,125317408	465,1785845	393,8398551	172,1397023	0,124398383	FALSE	28,5%	515,2363578	194,1304953	0,140290238	FALSE	37,2%
131	2	1383,777647	Empty	597,3663926	440,2363207	129,3273884	0,09345966	FALSE	427,8014923	0,125317408	427,8014923	425,5748149	172,1397023	0,124398383	FALSE	30,8%	471,0732414	194,1304953	0,140290238	FALSE	34,0%
131	3	1383,777647	Empty	667,6759879	506,8891571	129,3273884	0,09345966	FALSE	490,7975699	0,125317408	490,7975699	564,3629767	172,1397023	0,124398383	FALSE	40,8%	397,4680475	194,1304953	0,140290238	FALSE	28,7%
132	1	706,2047767	Non-Empty	509,8598162	240,0527062	0	0	TRUE	245,9508848	0	234,827229	212,5566698	0	0	TRUE	30,1%	301,3140381	0	0	TRUE	42,7%
132	2	706,2047767	Non-Empty	537,9572078	243,0408921	0	0	TRUE	223,829865	0	247,7681049	224,2702581	0	0	TRUE	31,8%	207,1534012	0	0	TRUE	29,3%
132	3	706,2047767	Non-Empty	485,5036183	223,1111784	0	0	TRUE	236,4240269	0	223,6094427	269,3778488	0	0	TRUE	38,1%	197,7373375	0	0	TRUE	28,0%
133	1	1218,687573	Non-Empty	564,9055889	364,2389223	0	0	TRUE	364,2389223	0	378,122766	349,0529189	0	0	TRUE	28,6%	471,7500283	0	0	TRUE	38,7%
133	2	1218,687573	Non-Empty	571,7535062	371,0868396	0	0	TRUE	371,0868396	0	382,7064584	353,2842198	0	0	TRUE	29,0%	327,6041863	0	0	TRUE	26,9%
133	3	1218,687573	Non-Empty	684,028478	483,3618114	0	0	TRUE	483,3618114	0	457,8583488	516,3504346	0	0	TRUE	42,4%	419,3333585	0	0	TRUE	34,4%
134	1	1399,652948	Empty	615,2970309	458,8715724	74,90291315	0,053515347	FALSE	451,5975943	0,0377716071	451,5975943	414,1709039	130,2980537	0,093093116	FALSE	29,6%	466,5509825	95,63471355	0,068327448	FALSE	33,3%
134	2	1399,652948	Empty	611,0244424	466,6900645	74,90291315	0,053515347	FALSE	471,5071671	0,0377716071	471,5071671	411,294924	130,2980537	0,093093116	FALSE	29,4%	482,1026819	95,63471355	0,068327448	FALSE	34,4%
134	3	1399,652948	Empty	620,7859155	474,0913106	74,90291315	0,053515347	FALSE	476,5481861	0,0377716071	476,5481861	574,1871196	130,2980537	0,093093116	FALSE	41,0%	450,9992831	95,63471355	0,068327448	FALSE	32,2%
135	1	1357,028729	Empty	555,860782	414,1267964	144,8529633	0,106742739	FALSE	416,288172	0,016227864	416,288172	392,6067612	179,0135397	0,131915807	FALSE	28,9%	527,001448	215,0092665	0,158441205	FALSE	38,8%
135	2	1357,028729	Empty	618,4159903	473,8462104	144,8529633	0,106742739	FALSE	473,1717918	0,016227864	473,1717918	436,8498397	179,0135397	0,131915807	FALSE	32,2%	434,7761946	215,0092665	0,158441205	FALSE	32,0%
135	3	1357,028729	Empty	614,4380401	469,0557219	144,8529633	0,106742739	FALSE	467,5687649	0,016227864	467,5687649	527,5181278	179,0135397	0,131915807	FALSE	38,9%	395,251086	215,0092665	0,158441205	FALSE	29,1%
136	1	751,5485126	Non-Empty	529,7305805	224,4036	0	0	TRUE	231,8127998	0	235,6067868	225,7941301	0	0	TRUE	30,0%	219,7924895	0	0	TRUE	29,2%
136	2	751,5485126	Non-Empty	582,8650341	262,4147246	0	0	TRUE	254,7005956	0	259,2392489	248,4423369	0	0	TRUE	33,1%	262,3329714	0	0	TRUE	34,9%
136	3	751,5485126	Non-Empty	577,1614391	264,730188	0	0	TRUE	265,0351172	0	277,3120455	277,3120455	0	0	TRUE	36,9%	269,4230517	0	0	TRUE	35,8%
137	1	1266,748452	Empty	655,3624066	464,0209335	108,2280843	0,085437708	FALSE	449,9938487	0,076823195	449,9938487	424,0453661	117,3738756	0,092657603	FALSE	33,5%	401,6519483	139,7672933	0,110335476	FALSE	31,7%
137	2	1266,748452	Empty	563,3476743	383,2576794	108,2280843	0,085437708	FALSE	380,4820727	0,076823195	380,4820727	364,5081994	117,3738756	0,092657603	FALSE	28,8%	401,6519483	139,7672933	0,110335476	FALSE	31,7%
137	3	1266,748452	Empty	579,9815364	419,4698395	108,2280843	0,085437708	FALSE	436,2725309	0,076823195	436,2725309	478,1948869	117,3738756	0,092657603	FALSE	37,7%	463,4445557	139,7672933	0,110335476	FALSE	36,6%
138	1	1266,875177	Empty	535,3925123	411,9196005	123,9519431	0,097840691	FALSE	405,9366394	0,081429005	405,9366394	388,8964702	129,02619	0,101846016	FALSE	30,7%	393,1681585	124,7545017	0,098474186	FALSE	31,0%
138	2	1266,875177	Empty	522,1078501	398,6349382	123,9519431	0,097840691	FALSE	392,6519771	0,081429005	392,6519771	379,2468054	129,02619	0,101846016	FALSE	29,9%	407,7299421	124,7545017	0,098474186	FALSE	32,2%
138	3	1266,875177	Empty	561,844667	456,3206386	123,9519431	0,097840691	FALSE	468,2865608	0,081429005	468,2865608	498,7319017	129,02619	0,101846016	FALSE	39,4%	465,9770767	124,7545017	0,098474186	FALSE	36,8%
139	1	1338,89122	Empty	630,2125758	431,5076744	172,2453977	0,128647791	FALSE	427,425327	0,042679772	427,425327	404,0571656	223,8212054	0,167169074	FALSE	30,2%	482,0008392	242,0417421	0,18077775	FALSE	36,0%
139	2	1338,89122	Empty	696,6696359	502,1394387	172,2453977	0,128647791	FALSE	502,2317055	0,042679772	502,2317055	446,6657271	223,8212054	0,167169074	FALSE	33,4%	428,4451904	242,0417421	0,18077775	FALSE	32,0%
139	3	1338,89122	Empty	595,8764001	405,2441069	172,2453977	0,128647791	FALSE	409,2342775	0,042679772	409,2342775	488,1683273	223,8212054	0,167169074	FALSE	36,5%	428,4451904	242,0417421	0,18077775	FALSE	32,0%
140	1	776,5398426	Non-Empty	595,5363839	243,6955063	0	0	TRUE	242,9448908	0	252,7352954	235,5025783	0	0	TRUE	30,3%	286,0936262	0	0	TRUE	36,8%</

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
156	1	1905,402717	Empty	776,1309459	604,2089398	179,5066263	0,094209284	FALSE	604,2686623	0,022505364	604,2686623	544,6494019	240,2343099	0,126080596	FALSE	28,6%	595,438349	278,5128115	0,146170051	FALSE	31,3%
156	2	1905,402717	Empty	846,48592	667,8991016	179,5066263	0,094209284	FALSE	661,2940117	0,022505364	661,2940117	594,0209607	240,2343099	0,126080596	FALSE	31,2%	555,742459	278,5128115	0,146170051	FALSE	29,2%
156	3	1905,402717	Empty	798,7310364	633,2946753	179,5066263	0,094209284	FALSE	639,8400428	0,022505364	639,8400428	766,7323541	240,2343099	0,126080596	FALSE	40,2%	754,2219087	278,5128115	0,146170051	FALSE	39,6%
157	1	1277,417562	Empty	653,3881672	484,6862036	121,5390943	0,095144374	FALSE	468,291329	0,174502363	468,291329	466,1975155	210,2404627	0,164582411	FALSE	31,8%	323,2020336	237,2648663	0,185737909	FALSE	25,3%
157	2	1277,417562	Empty	559,431737	436,4881713	121,5390943	0,095144374	FALSE	465,8516946	0,174502363	465,8516946	347,7868028	210,2404627	0,164582411	FALSE	27,2%	584,8417752	237,2648663	0,185737909	FALSE	45,8%
157	3	1277,417562	Empty	521,5189245	356,2431866	121,5390943	0,095144374	FALSE	343,2745378	0,174502363	343,2745378	523,4332432	210,2404627	0,164582411	FALSE	41,0%	369,3737527	237,2648663	0,185737909	FALSE	28,9%
158	1	1039,590303	Non-Empty	772,8690352	352,964877	0	0	TRUE	359,841469	0	346,3321178	329,4526111	0	0	TRUE	31,7%	407,9404987	0	0	TRUE	39,2%
158	2	1039,590303	Non-Empty	744,5213048	306,4536768	0	0	TRUE	295,1667991	0	333,6291513	317,3687607	0	0	TRUE	30,5%	289,5061603	0	0	TRUE	27,8%
158	3	1039,590303	Non-Empty	802,5422137	380,1717492	0	0	TRUE	384,5820349	0	359,629034	392,7689313	0	0	TRUE	37,8%	342,143644	0	0	TRUE	32,9%
159	1	745,5774367	Non-Empty	495,4759187	262,2550144	0	0	TRUE	255,5400016	0	259,2217618	219,8984307	0	0	TRUE	29,5%	222,8162455	0	0	TRUE	29,9%
159	2	745,5774367	Non-Empty	511,7713478	285,0483117	0	0	TRUE	284,8311671	0	267,7471606	227,1305467	0	0	TRUE	30,5%	282,8052346	0	0	TRUE	37,9%
159	3	745,5774367	Non-Empty	417,8478447	198,2741106	0	0	TRUE	205,206268	0	218,6085143	298,5484593	0	0	TRUE	40,0%	239,9559566	0	0	TRUE	32,2%
160	1	1294,04821	Empty	575,3311075	422,1548415	129,9333615	0,10040844	FALSE	436,6340938	0,103127899	436,6340938	406,027527	146,060676	0,112871124	FALSE	31,4%	528,7508813	267,761354	0,206917603	FALSE	40,9%
160	2	1294,04821	Empty	565,9647283	384,734078	129,9333615	0,10040844	FALSE	371,1589458	0,103127899	371,1589458	399,4174068	146,060676	0,112871124	FALSE	30,9%	431,3494032	267,761354	0,206917603	FALSE	33,3%
160	3	1294,04821	Empty	655,7189285	487,15929	129,9333615	0,10040844	FALSE	486,2551699	0,103127899	486,2551699	488,6032758	146,060676	0,112871124	FALSE	37,8%	333,947925	267,761354	0,206917603	FALSE	25,8%
161	1	1411,962258	Non-Empty	778,0086749	497,4795186	0	0	TRUE	482,4213192	0	497,4330996	428,0190432	0	0	TRUE	30,3%	465,6471276	0	0	TRUE	33,0%
161	2	1411,962258	Non-Empty	662,6549163	446,4120439	0	0	TRUE	495,6401284	0	423,679709	364,557533	0	0	TRUE	25,8%	540,7515031	0	0	TRUE	38,3%
161	3	1411,962258	Non-Empty	767,7115374	468,0706954	0	0	TRUE	433,9008104	0	490,8494493	619,3856818	0	0	TRUE	43,9%	405,5636273	0	0	TRUE	28,7%
162	1	874,2143394	Non-Empty	485,337103	306,0037697	0	0	TRUE	316,7746015	0	293,7215458	261,6134198	0	0	TRUE	29,9%	308,5462374	0	0	TRUE	35,3%
162	2	874,2143394	Non-Empty	460,0705622	264,5809811	0	0	TRUE	259,1955651	0	278,4304679	247,9938838	0	0	TRUE	28,4%	267,4067391	0	0	TRUE	30,6%
162	3	874,2143394	Non-Empty	499,1191698	303,6295887	0	0	TRUE	298,2441727	0	302,0623257	364,6070358	0	0	TRUE	41,7%	298,2613629	0	0	TRUE	34,1%
163	1	1194,222381	Non-Empty	641,6904374	459,4260615	0	0	TRUE	449,2261112	0	448,0320784	376,6041792	0	0	TRUE	31,5%	461,4041018	0	0	TRUE	38,6%
163	2	1194,222381	Non-Empty	512,2110496	336,0639063	0	0	TRUE	331,9811886	0	357,6288001	300,6135212	0	0	TRUE	25,2%	393,5505574	0	0	TRUE	33,0%
163	3	1194,222381	Non-Empty	556,5141707	398,7324133	0	0	TRUE	413,0150814	0	388,5615026	517,0046807	0	0	TRUE	43,3%	339,2677219	0	0	TRUE	28,4%
164	1	1042,510765	Empty	472,5613	329,3264809	103,3301711	0,099116647	FALSE	338,086222	0,035985394	338,086222	308,6633854	123,9932666	0,118937157	FALSE	29,6%	364,2507493	136,5791174	0,131009791	FALSE	34,9%
164	2	1042,510765	Empty	523,9810216	364,0022077	103,3301711	0,099116647	FALSE	356,0179539	0,035985394	356,0179539	342,2492617	123,9932666	0,118937157	FALSE	32,8%	314,0092666	136,5791174	0,131009791	FALSE	30,1%
164	3	1042,510765	Empty	501,9521238	349,1820765	103,3301711	0,099116647	FALSE	348,4065892	0,035985394	348,4065892	391,5981179	123,9932666	0,118937157	FALSE	37,6%	364,2507493	136,5791174	0,131009791	FALSE	34,9%
165	1	961,0050705	Empty	446,7162179	323,8531374	51,70904308	0,053807253	FALSE	330,1897711	0,065288622	330,1897711	290,6689487	84,89323175	0,088337964	FALSE	30,2%	342,4270941	60,99031986	0,063465138	FALSE	35,6%
165	2	961,0050705	Empty	431,5316353	308,0963922	51,70904308	0,053807253	FALSE	313,8608634	0,065288622	313,8608634	280,7886567	84,89323175	0,088337964	FALSE	29,2%	298,2429529	60,99031986	0,063465138	FALSE	31,0%
165	3	961,0050705	Empty	470,3563601	329,0555409	51,70904308	0,053807253	FALSE	316,954436	0,065288622	316,954436	389,5474651	84,89323175	0,088337964	FALSE	40,5%	320,3350235	60,99031986	0,063465138	FALSE	33,3%
166	1	1002,136783	Non-Empty	638,1975346	367,8930947	0	0	TRUE	359,3247766	0	357,8274778	291,8781749	0	0	TRUE	29,1%	260,2952684	0	0	TRUE	26,0%
166	2	1002,136783	Non-Empty	603,6221129	345,6114852	0	0	TRUE	349,3369793	0	338,4415836	276,0651853	0	0	TRUE	27,5%	364,4133757	0	0	TRUE	36,4%
166	3	1002,136783	Non-Empty	545,5255009	288,6322032	0	0	TRUE	293,4750273	0	305,8677117	434,193423	0	0	TRUE	43,3%	377,4281391	0	0	TRUE	37,7%
167	1	852,0158009	Non-Empty	497,1334189	277,824798	0	0	TRUE	280,3121906	0	279,1382996	249,2247984	0	0	TRUE	29,3%	298,7587873	0	0	TRUE	35,1%
167	2	852,0158009	Non-Empty	512,9316146	288,968469	0	0	TRUE	286,8013369	0	288,0089192	257,1448094	0	0	TRUE	30,2%	254,4982263	0	0	TRUE	29,9%
167	3	852,0158009	Non-Empty	507,338808	285,2225339	0	0	TRUE	284,9022734	0	284,8685821	345,6461932	0	0	TRUE	40,6%	298,7587873	0	0	TRUE	35,1%
168	1	1078,03467	Non-Empty	712,7267944	338,1874086	0	0	TRUE	338,3816846	0	348,8928139	324,2464783	0	0	TRUE	30,1%	410,1218852	0	0	TRUE	38,0%
168	2	1078,03467	Non-Empty	741,1459061	385,2944268	0	0	TRUE	404,1766092	0	362,8044893	337,1754112	0	0	TRUE	31,3%	363,2508126	0	0	TRUE	33,7%
168	3	1078,03467	Non-Empty	748,3629542	354,5528342	0	0	TRUE	335,4763759	0	366,3373665	416,6127802	0	0	TRUE	38,6%	304,6619719	0	0	TRUE	28,3%
169	1	862,412737	Non-Empty	651,7646699	311,2553154	0	0	TRUE	309,3167656	0	299,2825864	282,9003977	0	0	TRUE	32,8%	241,8962555	0	0	TRUE	28,0%
169	2	862,412737	Non-Empty	595,8117572	265,0710104	0	0	TRUE	272,9010684	0	273,5896742	258,6138692	0	0	TRUE	30,0%	304,9996265	0	0	TRUE	35,4%
169	3	862,412737	Non-Empty	630,5487238	286,0864111	0	0	TRUE	280,194903	0	289,5404763	320,89847	0	0	TRUE	37,2%	315,516855	0	0	TRUE	36,6%
170	1	804,6392068	Non-Empty	529,641797	246,3107238	0	0	TRUE	274,0620878	0	245,2234659	239,0290215	0	0	TRUE	29,7%	288,8448435	0	0	TRUE	35,9%
170	2	804,6392068	Non-Empty	563,554191	240,8589877	0	0	TRUE	229,2462215	0	260,9248604	254,3337923	0	0	TRUE	31,6%	257,8971817	0	0	TRUE	32,1%
170	3	804,6392068	Non-Empty	644,6905304	317,4694953	0	0	TRUE	301,3308975	0	298,4908805	311,276393	0	0	TRUE	38,7%	257,8971817	0	0	TRUE	32,1%
171	1	1216,260027	Empty	484,5444458	387,2479152	68,40693873	0,056243679	FALSE	392,6376093	0,021046633	392,6376093	334,8712361	120,7836178	0,099307397	FALSE	27,5%	384,0821139	71,57273999	0,058846578	FALSE	31,6%
171	2	1216,260027	Empty	526,8938372	421,5127653	68,40693873	0,056243679	FALSE	418,8179182	0,021046633	418,8179182	364,139125	120,7836178	0,099307397	FALSE	29,9%	435,2930624	71,57273999	0,058846578	FALSE	35,8%
171	3	1216,260027	Empty	512,8804187	407,4993469	68,40693873	0,056243679	FALSE	404,8044998	0,021046633	404,8044998	517,2496663	120,7836178	0,099307397	FALSE	42,5%	396,884851	71,57273999	0,058846578	FALSE	32,6%
172	1	1224,148053	Non-Empty	648,9184938	374,7032167	0	0	TRUE	374,533762	0	388,2020876	344,3080813	0	0	TRUE	28,1%	429,0828227	0	0	TRUE	35,1%
172	2	1224,148053	Non-Empty	703,2958114	427,4523829	0	0	TRUE	425,6547768	0	420,7321949	373,1600097	0	0	TRUE	30,5%	441,7029058	0	0	TRUE	36,1%
172	3	1224,148053	Non-Empty	694,0712149	421,9924535	0	0	TRUE	423,9595143	0	415,2137706	506,6799621	0								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
187	1	1280,466021	Empty	540,7010465	406,3253334	174,0197638	0,135903461	FALSE	413,6954646	0,032894576	413,6954646	390,7928958	189,5522014	0,148033761	FALSE	30,5%	422,6781041	244,5675653	0,190998872	FALSE	33,0%
187	2	1280,466021	Empty	568,0045392	421,0800253	174,0197638	0,135903461	FALSE	415,9013556	0,032894576	415,9013556	410,5265565	189,5522014	0,148033761	FALSE	32,1%	484,8366488	244,5675653	0,190998872	FALSE	37,9%
187	3	1280,466021	Empty	596,9979681	453,0606624	174,0197638	0,135903461	FALSE	450,869201	0,032894576	450,869201	479,1465688	189,5522014	0,148033761	FALSE	37,4%	372,9512683	244,5675653	0,190998872	FALSE	29,1%
188	1	1110,16701	Empty	493,2790456	341,8984959	76,92443368	0,069290866	FALSE	347,6723647	0,048335936	347,6723647	322,216717	96,60621254	0,087019531	FALSE	29,0%	460,3131504	174,0369851	0,15676649	FALSE	41,5%
188	2	1110,16701	Empty	554,4479637	386,2953533	76,92443368	0,069290866	FALSE	375,2971614	0,048335936	375,2971614	362,1731031	96,60621254	0,087019531	FALSE	32,6%	365,5427959	174,0369851	0,15676649	FALSE	32,9%
188	3	1110,16701	Empty	533,9032559	381,9731606	76,92443368	0,069290866	FALSE	387,1974837	0,048335936	387,1974837	425,7771897	96,60621254	0,087019531	FALSE	38,4%	284,3110635	174,0369851	0,15676649	FALSE	25,6%
189	1	816,260159	Non-Empty	550,72035	234,2204581	0	0	TRUE	224,7204942	0	258,7586747	256,7978637	0	0	TRUE	31,5%	208,8107383	0	0	TRUE	25,6%
189	2	816,260159	Non-Empty	567,1624761	252,5421502	0	0	TRUE	244,9217523	0	266,4840888	264,4647364	0	0	TRUE	32,4%	332,1989019	0	0	TRUE	40,7%
189	3	816,260159	Non-Empty	619,3771166	329,4975506	0	0	TRUE	346,6179125	0	291,0173954	294,9975588	0	0	TRUE	36,1%	275,2505187	0	0	TRUE	33,7%
190	1	1274,553519	Empty	650,934101	489,3705344	73,75940832	0,057870782	FALSE	496,7989315	0,096468482	496,7989315	411,4114395	151,7185032	0,119036589	FALSE	32,3%	479,6706791	98,47017389	0,077258563	FALSE	37,6%
190	2	1274,553519	Empty	546,7272616	383,1006254	73,75940832	0,057870782	FALSE	388,4659529	0,096468482	388,4659529	345,5493412	151,7185032	0,119036589	FALSE	27,1%	356,3267902	98,47017389	0,077258563	FALSE	28,0%
190	3	1274,553519	Empty	583,8680472	402,082359	73,75940832	0,057870782	FALSE	389,2886344	0,096468482	389,2886344	517,5927381	151,7185032	0,119036589	FALSE	40,6%	438,5560495	98,47017389	0,077258563	FALSE	34,4%
191	1	875,8909479	Non-Empty	558,0331001	281,2718591	0	0	TRUE	281,4159529	0	286,402291	258,4060322	0	0	TRUE	29,5%	280,2851033	0	0	TRUE	32,0%
191	2	875,8909479	Non-Empty	568,923992	285,0219167	0	0	TRUE	278,0251763	0	291,9918813	263,4492315	0	0	TRUE	30,1%	245,2494654	0	0	TRUE	28,0%
191	3	875,8909479	Non-Empty	579,6498603	309,5971721	0	0	TRUE	316,4498187	0	297,4967756	354,0356843	0	0	TRUE	40,4%	350,3563792	0	0	TRUE	40,0%
192	1	1160,317342	Empty	509,8566661	379,7993984	68,26671345	0,05883452	FALSE	379,1711172	0,01521747	379,1711172	346,1863438	104,3024407	0,089891306	FALSE	29,8%	366,4160027	76,89474502	0,066270444	FALSE	31,6%
192	2	1160,317342	Empty	502,5899955	377,2880919	68,26671345	0,05883452	FALSE	381,4151749	0,01521747	381,4151749	341,2523647	104,3024407	0,089891306	FALSE	29,4%	378,6298694	76,89474502	0,066270444	FALSE	32,6%
192	3	1160,317342	Empty	536,1576397	403,2298514	68,26671345	0,05883452	FALSE	399,7310496	0,01521747	399,7310496	472,8786333	104,3024407	0,089891306	FALSE	40,8%	415,2714697	76,89474502	0,066270444	FALSE	35,8%
193	1	1312,236732	Non-Empty	712,1285249	421,0038369	0	0	TRUE	408,8884589	0	434,7911287	387,3251725	0	0	TRUE	29,5%	347,3567819	0	0	TRUE	26,5%
193	2	1312,236732	Non-Empty	714,5243279	431,9508551	0	0	TRUE	428,3866924	0	436,2538897	388,6282446	0	0	TRUE	29,6%	514,6026399	0	0	TRUE	39,2%
193	3	1312,236732	Non-Empty	722,6118087	459,2820396	0	0	TRUE	474,9615804	0	441,1917132	536,2833145	0	0	TRUE	40,9%	450,2773099	0	0	TRUE	34,3%
194	1	1143,059216	Non-Empty	819,7521742	374,1509392	0	0	TRUE	384,1091223	0	373,3558943	351,0895696	0	0	TRUE	30,7%	405,1349121	0	0	TRUE	35,4%
194	2	1143,059216	Non-Empty	849,000582	378,1063044	0	0	TRUE	362,771445	0	386,6770733	363,6162957	0	0	TRUE	31,8%	361,7276001	0	0	TRUE	31,6%
194	3	1143,059216	Non-Empty	840,9847147	390,8019727	0	0	TRUE	396,178649	0	383,0262488	428,3533511	0	0	TRUE	37,5%	376,1967041	0	0	TRUE	32,9%
195	1	1016,346154	Empty	519,2081602	360,6385768	98,25949391	0,096679161	FALSE	324,5425847	0,18894013	324,5425847	353,7068816	126,9035413	0,124862519	FALSE	34,8%	242,5371505	156,0508308	0,153541025	FALSE	23,9%
195	2	1016,346154	Empty	398,1199109	299,860417	98,25949391	0,096679161	FALSE	324,0745144	0,18894013	324,0745144	271,2163696	126,9035413	0,124862519	FALSE	26,7%	369,5804198	156,0508308	0,153541025	FALSE	36,4%
195	3	1016,346154	Empty	466,4388572	355,8471606	98,25949391	0,096679161	FALSE	367,7290552	0,18894013	367,7290552	391,422903	126,9035413	0,124862519	FALSE	38,5%	404,2285841	156,0508308	0,153541025	FALSE	39,8%
196	1	1220,021905	Empty	580,2737501	429,9998211	96,65035798	0,079220182	FALSE	433,3382677	0,057302964	433,3382677	388,5461282	138,1040509	0,113198009	FALSE	31,8%	457,5082145	137,6689317	0,112841361	FALSE	37,5%
196	2	1220,021905	Empty	533,7384333	374,0638861	96,65035798	0,079220182	FALSE	368,0017144	0,057302964	368,0017144	357,3864951	138,1040509	0,113198009	FALSE	29,3%	388,188788	137,6689317	0,112841361	FALSE	31,8%
196	3	1220,021905	Empty	566,8468488	415,9581981	96,65035798	0,079220182	FALSE	418,6819231	0,057302964	418,6819231	474,089282	138,1040509	0,113198009	FALSE	38,9%	374,3249027	137,6689317	0,112841361	FALSE	30,7%
197	1	1552,128502	Empty	668,5578233	554,4502493	114,1075739	0,073516834	FALSE	562,8082567	0,062067671	562,8082567	447,7651579	220,7926654	0,142251537	FALSE	28,8%	435,9911524	232,5666709	0,149837253	FALSE	28,1%
197	2	1552,128502	Empty	661,8856211	534,6999073	114,1075739	0,073516834	FALSE	529,9797747	0,062067671	529,9797747	443,2964649	220,7926654	0,142251537	FALSE	28,6%	575,5083211	232,5666709	0,149837253	FALSE	37,1%
197	3	1552,128502	Empty	589,081802	462,9783459	114,1075739	0,073516834	FALSE	459,340471	0,062067671	459,340471	661,0668796	220,7926654	0,142251537	FALSE	42,6%	540,6290289	232,5666709	0,149837253	FALSE	34,8%
198	1	698,8251084	Non-Empty	568,7571642	249,8369359	0	0	TRUE	236,537757	0	246,0015323	226,9094941	0	0	TRUE	32,5%	229,9930736	0	0	TRUE	32,9%
198	2	698,8251084	Non-Empty	525,2669996	221,0651098	0	0	TRUE	222,4842695	0	227,1909611	209,5588006	0	0	TRUE	30,0%	238,8389611	0	0	TRUE	34,2%
198	3	698,8251084	Non-Empty	521,6640928	227,9230626	0	0	TRUE	239,8030818	0	225,6326149	262,3568136	0	0	TRUE	37,5%	229,9930736	0	0	TRUE	32,9%
199	1	1850,16516	Empty	793,4878569	583,2455961	173,1667305	0,093595282	FALSE	558,5087801	0,124276316	558,5087801	556,4355812	207,9001958	0,112368452	FALSE	30,1%	637,2791107	200,0545398	0,108127936	FALSE	34,4%
199	2	1850,16516	Empty	809,6385252	625,1659083	173,1667305	0,093595282	FALSE	626,1987361	0,124276316	626,1987361	567,7612826	207,9001958	0,112368452	FALSE	30,7%	575,6069387	200,0545398	0,108127936	FALSE	31,1%
199	3	1850,16516	Empty	803,5551124	641,7536557	173,1667305	0,093595282	FALSE	665,4576438	0,124276316	665,4576438	725,9682962	207,9001958	0,112368452	FALSE	39,2%	637,2791107	200,0545398	0,108127936	FALSE	34,4%
200	1	1328,52288	Empty	575,750076	402,1269208	98,62496784	0,07423656	FALSE	395,8833115	0,079262687	395,8833115	380,1274282	157,6921528	0,118697356	FALSE	28,6%	471,449986	113,9614894	0,0857806	FALSE	28,0%
200	2	1328,52288	Empty	639,5941082	481,3463535	98,62496784	0,07423656	FALSE	490,4781449	0,079262687	490,4781449	422,2791686	157,6921528	0,118697356	FALSE	31,8%	399,9817289	113,9614894	0,0857806	FALSE	37,6%
200	3	1328,52288	Empty	615,3173334	445,0496053	98,62496784	0,07423656	FALSE	442,1614232	0,079262687	442,1614232	526,1162829	157,6921528	0,118697356	FALSE	39,6%	457,1261521	113,9614894	0,0857806	FALSE	34,4%
201	1	853,9500005	Non-Empty	697,7335717	279,4172044	0	0	TRUE	262,9961239	0	289,2887987	281,1955623	0	0	TRUE	32,9%	254,3680853	0	0	TRUE	29,8%
201	2	853,9500005	Non-Empty	683,5670164	285,4454953	0	0	TRUE	289,2192609	0	283,4151731	275,4862592	0	0	TRUE	32,3%	327,044681	0	0	TRUE	38,3%
201	3	853,9500005	Non-Empty	678,3352724	289,0873007	0	0	TRUE	301,7346158	0	281,2460286	297,268179	0	0	TRUE	34,8%	272,5372342	0	0	TRUE	31,9%
202	1	796,0505521	Non-Empty	442,9884187	245,9598925	0	0	TRUE	256,4701812	0	248,5721991	228,0678315	0	0	TRUE	28,6%	275,1779686	0	0	TRUE	34,6%
202	2	796,0505521	Non-Empty	478,1090745	260,5693218	0	0	TRUE	250,568384	0	268,2793027	246,1493241	0	0	TRUE	30,9%	235,8668303	0	0	TRUE	29,6%
202	3	796,0505521	Non-Empty	497,5695039	289,5213379	0	0	TRUE	289,0119868	0	279,1990503	321,8333964	0	0	TRUE	40,4%	285,0057532				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
218	1	687,3264718	Non-Empty	565,0549063	254,6098503	0	0	TRUE	246,6806594	0	243,5159008	228,9736999	0	0	TRUE	33,3%	242,5858136	0	0	TRUE	35,3%
218	2	687,3264718	Non-Empty	505,5124111	204,4774396	0	0	TRUE	205,9583333	0	217,8554841	204,8456633	0	0	TRUE	29,8%	212,2625869	0	0	TRUE	30,9%
218	3	687,3264718	Non-Empty	524,3067497	228,2391818	0	0	TRUE	234,6874791	0	225,9550869	253,5071086	0	0	TRUE	36,9%	232,4780713	0	0	TRUE	33,8%
219	1	1227,370947	Empty	539,6636432	389,1818288	69,32087397	0,056479155	FALSE	373,4206753	0,129967831	373,4206753	370,1181539	80,79569848	0,065828264	FALSE	30,2%	375,7258001	135,0349159	0,110019645	FALSE	30,6%
219	2	1227,370947	Empty	533,3370101	396,7492761	69,32087397	0,056479155	FALSE	394,8822029	0,129967831	394,8822029	365,7791517	80,79569848	0,065828264	FALSE	29,8%	475,9193467	135,0349159	0,110019645	FALSE	38,8%
219	3	1227,370947	Empty	558,5322761	441,439842	69,32087397	0,056479155	FALSE	459,0680687	0,129967831	459,0680687	491,4736412	80,79569848	0,065828264	FALSE	40,0%	375,7258001	135,0349159	0,110019645	FALSE	30,6%
220	1	1207,999941	Non-Empty	864,2567591	403,6507446	0	0	TRUE	382,9469525	0	413,0313663	394,1866175	0	0	TRUE	32,6%	419,1020204	0	0	TRUE	34,7%
220	2	1207,999941	Non-Empty	797,9047455	368,7993304	0	0	TRUE	379,5961375	0	381,3215041	363,9235325	0	0	TRUE	30,1%	431,4285504	0	0	TRUE	35,7%
220	3	1207,999941	Non-Empty	865,5451035	435,5498661	0	0	TRUE	445,4568511	0	413,6470707	449,8897911	0	0	TRUE	37,2%	357,4693703	0	0	TRUE	29,6%
221	1	1163,524398	Non-Empty	740,0541089	366,0029967	0	0	TRUE	381,0832001	0	369,4127739	358,4440347	0	0	TRUE	30,8%	400,3524811	0	0	TRUE	34,4%
221	2	1163,524398	Non-Empty	768,1707229	370,4582943	0	0	TRUE	361,8771814	0	383,4477427	372,0622721	0	0	TRUE	32,0%	312,7753759	0	0	TRUE	26,9%
221	3	1163,524398	Non-Empty	822,6935135	427,0631073	0	0	TRUE	420,5640167	0	410,6638815	433,0180914	0	0	TRUE	37,2%	450,3965412	0	0	TRUE	38,7%
222	1	800,3026165	Non-Empty	621,3080793	311,8949474	0	0	TRUE	302,8677866	0	292,2397979	273,4588982	0	0	TRUE	34,2%	281,4250959	0	0	TRUE	35,2%
222	2	800,3026165	Non-Empty	522,4284964	221,5178897	0	0	TRUE	220,9932544	0	245,7305857	229,9386179	0	0	TRUE	28,7%	255,0414932	0	0	TRUE	31,9%
222	3	800,3026165	Non-Empty	557,7239545	266,8897794	0	0	TRUE	276,4415755	0	262,3322329	296,9051004	0	0	TRUE	37,1%	263,8360274	0	0	TRUE	33,0%
223	1	1332,177529	Empty	616,2357451	456,4622902	60,58632083	0,045479164	FALSE	442,0505182	0,159401708	442,0505182	399,0337594	142,9866783	0,107333051	FALSE	30,0%	401,2582918	68,68876981	0,051561273	FALSE	30,1%
223	2	1332,177529	Empty	553,4502873	440,7783817	60,58632083	0,045479164	FALSE	473,4681592	0,159401708	473,4681592	358,3780242	142,9866783	0,107333051	FALSE	26,9%	497,5602818	68,68876981	0,051561273	FALSE	37,3%
223	3	1332,177529	Empty	598,5765454	434,9368568	60,58632083	0,045479164	FALSE	416,6588512	0,159401708	416,6588512	574,765745	142,9866783	0,107333051	FALSE	43,1%	433,3589551	68,68876981	0,051561273	FALSE	32,5%
224	1	1846,707388	Empty	870,5978188	666,9399586	174,2335853	0,094348236	FALSE	666,8166123	0,052480528	666,8166123	584,2766145	245,2399045	0,132798464	FALSE	31,6%	550,0830516	279,4334675	0,151314426	FALSE	29,8%
224	2	1846,707388	Empty	801,6578872	586,7130411	174,2335853	0,094348236	FALSE	575,3027089	0,052480528	575,3027089	538,0095679	245,2399045	0,132798464	FALSE	29,1%	569,7288749	279,4334675	0,151314426	FALSE	30,9%
224	3	1846,707388	Empty	785,0552234	593,0543879	174,2335853	0,094348236	FALSE	604,5880664	0,052480528	604,5880664	724,4212052	245,2399045	0,132798464	FALSE	39,2%	726,8954611	279,4334675	0,151314426	FALSE	39,4%
225	1	1326,978318	Empty	618,8510036	428,8347245	69,91120016	0,052684508	FALSE	405,1973705	0,128914269	405,1973705	387,8017152	124,8863855	0,094113358	FALSE	29,2%	405,8992503	59,6240743	0,044932214	FALSE	30,6%
225	2	1326,978318	Empty	652,8873379	486,9199597	69,91120016	0,052684508	FALSE	487,3315067	0,128914269	487,3315067	409,1305144	124,8863855	0,094113358	FALSE	30,8%	499,568308	59,6240743	0,044932214	FALSE	37,6%
225	3	1326,978318	Empty	554,3767523	411,223634	69,91120016	0,052684508	FALSE	434,449441	0,128914269	434,449441	530,0460886	124,8863855	0,094113358	FALSE	39,9%	421,5107599	59,6240743	0,044932214	FALSE	31,8%
226	1	1594,427722	Empty	725,9195479	567,8909022	108,7657741	0,068216184	FALSE	574,727004	0,058820159	574,727004	484,5562814	192,100395	0,120482348	FALSE	30,4%	492,1073217	184,5493547	0,115746454	FALSE	30,9%
226	2	1594,427722	Empty	686,6596778	512,5247859	108,7657741	0,068216184	FALSE	503,2546414	0,058820159	503,2546414	458,3500486	192,100395	0,120482348	FALSE	28,7%	551,1602002	184,5493547	0,115746454	FALSE	34,6%
226	3	1594,427722	Empty	676,4427387	514,012034	108,7657741	0,068216184	FALSE	516,4460768	0,058820159	516,4460768	651,5213922	192,100395	0,120482348	FALSE	40,9%	551,1602002	184,5493547	0,115746454	FALSE	34,6%
227	1	1014,261907	Empty	419,4997437	322,7609799	81,7070341	0,080558122	FALSE	320,5635529	0,063732362	320,5635529	309,9751089	87,9006241	0,086664621	FALSE	30,6%	291,4545709	139,1076872	0,137151643	FALSE	28,7%
227	2	1014,261907	Empty	404,4099182	307,711543	81,7070341	0,080558122	FALSE	305,4737274	0,063732362	305,4737274	298,8249941	87,9006241	0,086664621	FALSE	29,5%	396,3782164	139,1076872	0,137151643	FALSE	39,1%
227	3	1014,261907	Empty	473,9762554	383,8297725	81,7070341	0,080558122	FALSE	388,2246264	0,063732362	388,2246264	405,4618036	87,9006241	0,086664621	FALSE	40,0%	326,4291194	139,1076872	0,137151643	FALSE	32,2%
228	1	1776,740447	Empty	790,1230023	607,8016325	99,52630224	0,05601623	FALSE	609,6752093	0,066616453	609,6752093	518,7985277	174,286255	0,098093256	FALSE	29,2%	642,6508	119,9597436	0,067516752	FALSE	36,2%
228	2	1776,740447	Empty	804,8690576	602,6838052	99,52630224	0,05601623	FALSE	584,6934995	0,066616453	584,6934995	528,4808579	174,286255	0,098093256	FALSE	29,7%	548,1433294	119,9597436	0,067516752	FALSE	30,9%
228	3	1776,740447	Empty	734,3332271	566,2550093	99,52630224	0,05601623	FALSE	582,3717381	0,066616453	582,3717381	729,4610613	174,286255	0,098093256	FALSE	41,1%	585,9463176	119,9597436	0,067516752	FALSE	33,0%
229	1	938,6654319	Non-Empty	587,2250051	319,7273434	0	0	TRUE	319,4792385	0	316,7107255	292,4102659	0	0	TRUE	31,2%	316,1820402	0	0	TRUE	33,7%
229	2	938,6654319	Non-Empty	553,7015745	288,2289774	0	0	TRUE	290,0059372	0	298,6303816	275,7171837	0	0	TRUE	29,4%	276,6592852	0	0	TRUE	29,5%
229	3	938,6654319	Non-Empty	599,4875227	330,709111	0	0	TRUE	329,1802562	0	323,3243247	370,5379822	0	0	TRUE	39,5%	345,8241065	0	0	TRUE	36,8%
230	1	1415,18249	Empty	554,3704329	428,7174082	99,69395049	0,070446003	FALSE	436,8563136	0,023967759	436,8563136	400,1051128	128,3062459	0,090664099	FALSE	28,3%	492,2373878	148,7984113	0,105144328	FALSE	34,8%
230	2	1415,18249	Empty	601,5410946	463,6797118	99,69395049	0,070446003	FALSE	459,6102591	0,023967759	459,6102591	434,1495383	128,3062459	0,090664099	FALSE	30,7%	461,4725511	148,7984113	0,105144328	FALSE	32,6%
230	3	1415,18249	Empty	660,6467528	522,78537	99,69395049	0,070446003	FALSE	518,7159173	0,023967759	518,7159173	580,9278388	128,3062459	0,090664099	FALSE	41,0%	461,4725511	148,7984113	0,105144328	FALSE	32,6%
231	1	1345,954001	Empty	588,6418578	439,3118914	44,7217681	0,033226818	FALSE	435,6219725	0,065485205	435,6219725	377,5601839	129,9848735	0,096574529	FALSE	28,1%	518,9220246	114,3227791	0,084938103	FALSE	38,6%
231	2	1345,954001	Empty	618,702802	482,1046494	44,7217681	0,033226818	FALSE	491,1465443	0,065485205	491,1465443	396,841544	129,9848735	0,096574529	FALSE	29,5%	486,4893981	114,3227791	0,084938103	FALSE	36,1%
231	3	1345,954001	Empty	575,5294842	424,5374606	44,7217681	0,033226818	FALSE	419,1854846	0,065485205	419,1854846	571,5522736	129,9848735	0,096574529	FALSE	42,5%	340,5425787	114,3227791	0,084938103	FALSE	25,3%
232	1	1043,214696	Non-Empty	646,0652213	343,3285099	0	0	TRUE	344,4848582	0	344,7679396	322,0905287	0	0	TRUE	30,9%	289,0835903	0	0	TRUE	27,7%
232	2	1043,214696	Non-Empty	635,4962617	323,1356	0	0	TRUE	314,667998	0	339,1278922	316,8214604	0	0	TRUE	30,4%	364,4967008	0	0	TRUE	34,9%
232	3	1043,214696	Non-Empty	673,3323914	376,7505856	0	0	TRUE	384,0618393	0	359,3188637	404,3027065	0	0	TRUE	38,8%	389,6344043	0	0	TRUE	37,3%
233	1	1137,06324	Empty	532,955127	393,6494722	84,44942985	0,074269774	FALSE	404,4512533	0,143368384	404,4512533	331,2782201	151,4610522	0,133203719	FALSE	29,1%	415,9987462	83,10046233	0,073083413	FALSE	36,6%
233	2	1137,06324	Empty	547,4370822	407,7115357	84,44942985	0,074269774	FALSE	418,0934253	0,143368384	418,0934253	340,2800217	151,4610522	0,133203719	FALSE	29,9%	415,9987462	83,10046233	0,073083413	FALSE	36,6%
233	3	1137,06324	Empty																		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
249	1	953,5488455	Non-Empty	510,2943533	342,5808942	0	0	TRUE	330,8218036	0	342,329042	302,2267871	0	0	TRUE	31,7%	290,2105182	0	0	TRUE	30,4%
249	2	953,5488455	Non-Empty	434,6462394	274,5037549	0	0	TRUE	270,3156389	0	291,5807901	257,4234569	0	0	TRUE	27,0%	352,3984864	0	0	TRUE	37,0%
249	3	953,5488455	Non-Empty	476,4713583	336,4641964	0	0	TRUE	352,411403	0	319,6390134	393,8986015	0	0	TRUE	41,3%	310,9398409	0	0	TRUE	32,6%
250	1	1555,937298	Empty	668,0938465	509,902042	113,7300121	0,073094213	FALSE	501,4575482	0,169137007	501,4575482	455,3096162	202,0788027	0,129875929	FALSE	29,3%	541,9556882	120,8804461	0,077689793	FALSE	34,8%
250	2	1555,937298	Empty	634,4812507	520,7512385	113,7300121	0,073094213	FALSE	556,7685372	0,169137007	556,7685372	432,402448	202,0788027	0,129875929	FALSE	27,8%	559,4381298	120,8804461	0,077689793	FALSE	36,0%
250	3	1555,937298	Empty	702,6041334	525,2840178	113,7300121	0,073094213	FALSE	497,711213	0,169137007	497,711213	668,2252342	202,0788027	0,129875929	FALSE	42,9%	454,5434804	120,8804461	0,077689793	FALSE	29,2%
251	1	1399,345608	Non-Empty	780,8377093	403,3343935	0	0	TRUE	425,242989	0	420,6458529	395,0303796	0	0	TRUE	28,2%	481,4952629	0	0	TRUE	34,4%
251	2	1399,345608	Non-Empty	875,6721493	470,1826789	0	0	TRUE	464,1051199	0	471,7342076	443,0076794	0	0	TRUE	31,7%	406,2616281	0	0	TRUE	29,0%
251	3	1399,345608	Non-Empty	941,0714833	525,8285354	0	0	TRUE	509,9974989	0	506,9655473	561,3075488	0	0	TRUE	40,1%	511,5887168	0	0	TRUE	36,6%
252	1	1000,047466	Non-Empty	765,6702625	322,2746432	0	0	TRUE	314,4772509	0	331,9284793	315,7931072	0	0	TRUE	31,6%	322,9319943	0	0	TRUE	32,3%
252	2	1000,047466	Non-Empty	793,8634861	345,4604336	0	0	TRUE	332,6556082	0	344,1506254	327,4211228	0	0	TRUE	32,7%	281,2633499	0	0	TRUE	28,1%
252	3	1000,047466	Non-Empty	747,3083986	332,3123893	0	0	TRUE	352,9146071	0	323,9683614	356,8332362	0	0	TRUE	35,7%	395,852122	0	0	TRUE	39,6%
253	1	1501,640395	Empty	579,3420836	483,1408427	64,70029955	0,043086414	FALSE	504,8670827	0,091384042	504,8670827	392,4066275	155,4345147	0,103509812	FALSE	26,1%	572,0534836	130,4589775	0,086877643	FALSE	38,1%
253	2	1501,640395	Empty	659,758126	528,9161344	64,70029955	0,043086414	FALSE	516,0016238	0,091384042	516,0016238	446,8749441	155,4345147	0,103509812	FALSE	29,8%	536,3001409	130,4589775	0,086877643	FALSE	35,7%
253	3	1501,640395	Empty	616,3226277	498,5834174	64,70029955	0,043086414	FALSE	480,771688	0,091384042	480,771688	662,3588229	155,4345147	0,103509812	FALSE	44,1%	393,28677	130,4589775	0,086877643	FALSE	26,2%
254	1	956,7316778	Non-Empty	547,4223063	296,8015077	0	0	TRUE	315,8590578	0	296,605579	267,6375671	0	0	TRUE	28,0%	334,8560872	0	0	TRUE	35,0%
254	2	956,7316778	Non-Empty	611,1867158	330,9539398	0	0	TRUE	320,3995124	0	331,1545541	298,8123132	0	0	TRUE	31,2%	306,1541369	0	0	TRUE	32,0%
254	3	956,7316778	Non-Empty	607,1577019	328,9762304	0	0	TRUE	320,4731076	0	328,9715447	390,2817975	0	0	TRUE	40,8%	315,7214537	0	0	TRUE	33,0%
255	1	1342,012007	Empty	650,7133722	423,4516679	94,00519912	0,070047957	FALSE	417,7723101	0,064602152	417,7723101	421,0520521	90,72475632	0,067603535	FALSE	31,4%	395,5403811	107,6708826	0,080230938	FALSE	29,5%
255	2	1342,012007	Empty	659,1585	434,6892658	94,00519912	0,070047957	FALSE	431,8023781	0,064602152	431,8023781	426,5165753	90,72475632	0,067603535	FALSE	31,8%	466,172592	107,6708826	0,080230938	FALSE	34,7%
255	3	1342,012007	Empty	696,8871746	483,8710736	94,00519912	0,070047957	FALSE	492,4373192	0,064602152	492,4373192	494,4433799	90,72475632	0,067603535	FALSE	36,8%	480,2990342	107,6708826	0,080230938	FALSE	35,8%
256	1	1662,194102	Empty	671,7728197	530,0244507	117,7140742	0,070818489	FALSE	557,947799	0,108826578	557,947799	442,088779	205,6497458	0,12372186	FALSE	26,6%	454,9162806	192,8222443	0,11600465	FALSE	27,4%
256	2	1662,194102	Empty	792,1042976	608,0867322	117,7140742	0,070818489	FALSE	593,7408842	0,108826578	593,7408842	521,2780445	205,6497458	0,12372186	FALSE	31,4%	612,3873008	192,8222443	0,11600465	FALSE	36,8%
256	3	1662,194102	Empty	707,3321372	524,0829193	117,7140742	0,070818489	FALSE	510,5054189	0,108826578	510,5054189	698,8272787	205,6497458	0,12372186	FALSE	42,0%	594,8905208	192,8222443	0,11600465	FALSE	35,8%
257	1	1257,738452	Empty	588,2762026	458,0493047	72,189545	0,057396309	FALSE	443,4518894	0,069062413	443,4518894	411,0813674	98,96491857	0,078684816	FALSE	32,7%	454,9266741	126,1232842	0,100277831	FALSE	36,2%
257	2	1257,738452	Empty	468,0154627	357,7297155	72,189545	0,057396309	FALSE	360,0734511	0,069062413	367,0734511	327,0043977	98,96491857	0,078684816	FALSE	26,0%	414,7860852	126,1232842	0,100277831	FALSE	33,0%
257	3	1257,738452	Empty	548,3352347	441,9594318	72,189545	0,057396309	FALSE	451,2131116	0,069062413	451,2131116	519,6126869	98,96491857	0,078684816	FALSE	41,3%	388,0256926	126,1232842	0,100277831	FALSE	30,9%
258	1	1439,919729	Empty	649,8126549	507,0970471	140,6955268	0,097710674	FALSE	520,0457734	0,098429437	520,0457734	442,7949636	204,9976103	0,142367388	FALSE	30,8%	514,257046	206,7388341	0,143576638	FALSE	35,7%
258	2	1439,919729	Empty	607,2464059	457,6710799	140,6955268	0,097710674	FALSE	463,760088	0,098429437	463,760088	413,7894948	204,9976103	0,142367388	FALSE	28,7%	546,540849	206,7388341	0,143576638	FALSE	38,1%
258	3	1439,919729	Empty	649,8536703	475,1516017	140,6955268	0,097710674	FALSE	456,1138673	0,098429437	456,1138673	583,3352703	204,9976103	0,142367388	FALSE	40,5%	377,1218337	206,7388341	0,143576638	FALSE	26,2%
259	1	970,6261235	Non-Empty	677,7074068	341,4359186	0	0	TRUE	317,2529897	0	344,9595371	304,8272981	0	0	TRUE	31,4%	365,1860663	0	0	TRUE	37,6%
259	2	970,6261235	Non-Empty	672,6230725	334,4787902	0	0	TRUE	308,4230673	0	342,3715624	302,5404058	0	0	TRUE	31,2%	278,6946295	0	0	TRUE	28,7%
259	3	970,6261235	Non-Empty	556,5613222	294,7114147	0	0	TRUE	344,9500666	0	283,295024	363,2584196	0	0	TRUE	37,4%	326,7454277	0	0	TRUE	33,7%
260	1	1547,469669	Empty	642,6843085	484,5256125	135,9063831	0,087824909	FALSE	475,8757929	0,0912976	475,8757929	475,9337855	125,4159576	0,081045826	FALSE	30,8%	480,7672759	246,141297	0,159060498	FALSE	31,1%
260	2	1547,469669	Empty	626,4034171	471,941867	135,9063831	0,087824909	FALSE	466,9891932	0,0912976	466,9891932	463,8771254	125,4159576	0,081045826	FALSE	30,0%	585,9351175	246,141297	0,159060498	FALSE	37,9%
260	3	1547,469669	Empty	726,9085729	591,0021898	135,9063831	0,087824909	FALSE	604,6046831	0,0912976	604,6046831	607,6587583	125,4159576	0,081045826	FALSE	39,3%	480,7672759	246,141297	0,159060498	FALSE	31,1%
261	1	900,6896895	Non-Empty	504,3213314	313,8805604	0	0	TRUE	301,3999454	0	316,6363256	286,0604553	0	0	TRUE	31,8%	325,9638876	0	0	TRUE	36,2%
261	2	900,6896895	Non-Empty	406,6331225	252,1325854	0	0	TRUE	275,5922043	0	255,3031366	230,6498832	0	0	TRUE	25,6%	291,6518995	0	0	TRUE	32,4%
261	3	900,6896895	Non-Empty	523,6157034	334,6765436	0	0	TRUE	323,6975398	0	328,7502273	383,979351	0	0	TRUE	42,6%	283,0739024	0	0	TRUE	31,4%
262	1	1437,996232	Empty	656,0310022	486,5162091	97,37764136	0,067717591	FALSE	495,5054937	0,085892008	495,5054937	421,7348714	156,0815999	0,108541035	FALSE	29,3%	312,6078765	265,2085948	0,18442927	FALSE	21,7%
262	2	1437,996232	Empty	697,1350028	494,5749769	97,37764136	0,067717591	FALSE	470,5190287	0,085892008	470,5190287	448,1589129	156,0815999	0,108541035	FALSE	31,2%	578,3245716	265,2085948	0,18442927	FALSE	40,2%
262	3	1437,996232	Empty	620,3424599	456,9050459	97,37764136	0,067717591	FALSE	471,9717097	0,085892008	471,9717097	568,1024477	156,0815999	0,108541035	FALSE	39,5%	547,0637839	265,2085948	0,18442927	FALSE	38,0%
263	1	983,6629117	Non-Empty	546,2779833	339,6406237	0	0	TRUE	341,2605789	0	334,0846473	284,508219	0	0	TRUE	28,9%	338,8172252	0	0	TRUE	34,4%
263	2	983,6629117	Non-Empty	553,023311	341,0598108	0	0	TRUE	337,3536255	0	338,2098555	288,0212677	0	0	TRUE	29,3%	349,7468131	0	0	TRUE	35,6%
263	3	983,6629117	Non-Empty	509,1335619	302,9624772	0	0	TRUE	305,0487074	0	311,3684089	411,1334251	0	0	TRUE	41,8%	295,0988735	0	0	TRUE	30,0%
264	1	1258,098313	Non-Empty	791,5483158	462,8778846	0	0	TRUE	439,6059629	0	458,0087484	387,8143159	0	0	TRUE	30,8%	490,6583421	0	0	TRUE	39,0%
264	2	1258,098313	Non-Empty	708,8992973	426,2162717	0	0	TRUE	448,9317555	0	410,1860535	347,3209285	0	0	TRUE	27,6%	478,077359	0	0	TRUE	38,0%
264	3	1258,098313	Non-Empty	673,8462284	369,0041568	0	0	TRUE	369,5605947	0	389,9035112	522,9630687	0	0	TRUE	41,6%	389,362612	0	0	TRUE	23,0%
265	1	1659,808251	Empty	730,0225233	548,7003189	141,9938075	0,08554832	FALSE	572,6110875	0,127688689	572,6110875	491,9050302									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
280	1	908,1357527	Non-Empty	676,9721557	350,0581491	0	0	TRUE	369,9835646	0	315,4909041	294,1449174	0	0	TRUE	32,4%	288,4666509	0	0	TRUE	31,8%
280	2	908,1357527	Non-Empty	601,9564453	257,6945664	0	0	TRUE	260,2721097	0	280,5311585	261,550534	0	0	TRUE	28,8%	320,518501	0	0	TRUE	35,3%
280	3	908,1357527	Non-Empty	669,725418	300,3830372	0	0	TRUE	277,8800785	0	312,1136901	352,4403013	0	0	TRUE	38,8%	299,1506009	0	0	TRUE	32,9%
281	1	991,407793	Non-Empty	546,9319126	323,2687386	0	0	TRUE	339,4778847	0	316,951525	273,5981263	0	0	TRUE	27,6%	338,8355748	0	0	TRUE	34,2%
281	2	991,407793	Non-Empty	598,1293095	329,6844568	0	0	TRUE	301,1119242	0	346,5701227	299,209197	0	0	TRUE	30,2%	313,7366434	0	0	TRUE	31,6%
281	3	991,407793	Non-Empty	565,9635311	338,4545975	0	0	TRUE	350,8179841	0	327,9325177	418,6004696	0	0	TRUE	42,2%	338,8355748	0	0	TRUE	34,2%
282	1	1604,176657	Empty	631,4415789	521,5648521	109,8767268	0,068494156	FALSE	555,354792	0,19337519	555,354792	435,2694264	196,1721525	0,122288372	FALSE	27,1%	553,1643644	168,9319651	0,105307582	FALSE	34,5%
282	2	1604,176657	Empty	721,4491855	536,3944508	109,8767268	0,068494156	FALSE	495,0063827	0,19337519	495,0063827	497,3140566	196,1721525	0,122288372	FALSE	31,0%	590,0419887	168,9319651	0,105307582	FALSE	36,8%
282	3	1604,176657	Empty	682,2858923	546,2173538	109,8767268	0,068494156	FALSE	553,8154819	0,19337519	553,8154819	671,5931737	196,1721525	0,122288372	FALSE	41,9%	460,9703036	168,9319651	0,105307582	FALSE	28,7%
283	1	1326,500757	Empty	573,6785199	416,37648	108,1244504	0,081511036	FALSE	418,3660176	0,010481761	418,3660176	371,9516808	163,9965779	0,123630972	FALSE	28,0%	423,3513055	171,8661618	0,129563561	FALSE	31,9%
283	2	1326,500757	Empty	665,0921998	498,9015746	108,1244504	0,081511036	FALSE	492,002527	0,010481761	492,002527	431,2208894	163,9965779	0,123630972	FALSE	32,5%	423,3513055	171,8661618	0,129563561	FALSE	31,9%
283	3	1326,500757	Empty	565,60477	411,2227026	108,1244504	0,081511036	FALSE	416,1322126	0,010481761	416,1322126	523,328187	163,9965779	0,123630972	FALSE	39,5%	479,7981462	171,8661618	0,129563561	FALSE	36,2%
284	1	859,4925783	Non-Empty	500,9960222	267,9257595	0	0	TRUE	268,5836843	0	275,907394	260,6692989	0	0	TRUE	30,3%	326,9808722	0	0	TRUE	38,0%
284	2	859,4925783	Non-Empty	470,4592489	256,4914775	0	0	TRUE	276,2518936	0	259,0902514	244,7809506	0	0	TRUE	28,5%	261,5846977	0	0	TRUE	30,4%
284	3	859,4925783	Non-Empty	589,2218699	335,0753413	0	0	TRUE	314,6570003	0	324,4949329	354,0423288	0	0	TRUE	41,2%	270,9270084	0	0	TRUE	31,5%
285	1	1366,309633	Empty	591,1111786	449,4919143	84,20216657	0,061627441	FALSE	438,4323789	0,110584462	438,4323789	391,3212943	111,3598302	0,081504095	FALSE	28,6%	460,3869414	95,20167079	0,069677962	FALSE	33,7%
285	2	1366,309633	Empty	626,1636963	481,3171775	84,20216657	0,061627441	FALSE	467,0303876	0,110584462	467,0303876	414,5263987	111,3598302	0,081504095	FALSE	30,3%	430,6845581	95,20167079	0,069677962	FALSE	31,5%
285	3	1366,309633	Empty	540,7139445	435,5005408	84,20216657	0,061627441	FALSE	460,8468661	0,110584462	460,8468661	560,4619397	111,3598302	0,081504095	FALSE	41,0%	475,2381331	95,20167079	0,069677962	FALSE	34,8%
286	1	1571,181281	Empty	730,1730362	574,1783542	119,3984314	0,075992779	FALSE	566,6312684	0,023162686	566,6312684	485,3988511	190,7859133	0,121428326	FALSE	30,9%	585,0143067	153,1388406	0,097467328	FALSE	37,2%
286	2	1571,181281	Empty	664,6400851	513,8946394	119,3984314	0,075992779	FALSE	511,5967899	0,023162686	511,5967899	441,8343567	190,7859133	0,121428326	FALSE	28,1%	468,0114454	153,1388406	0,097467328	FALSE	29,8%
286	3	1571,181281	Empty	621,7109479	483,1082872	119,3984314	0,075992779	FALSE	492,9532225	0,023162686	492,9532225	643,948073	190,7859133	0,121428326	FALSE	41,0%	518,1555288	153,1388406	0,097467328	FALSE	33,0%
287	1	618,9585163	Non-Empty	406,3508638	168,9099971	0	0	TRUE	185,0909635	0	182,2800044	179,2888657	0	0	TRUE	29,0%	168,8068681	0	0	TRUE	27,3%
287	2	618,9585163	Non-Empty	477,6179463	213,247709	0	0	TRUE	202,4993049	0	214,2488404	210,7331065	0	0	TRUE	34,0%	233,1142464	0	0	TRUE	37,7%
287	3	618,9585163	Non-Empty	495,8552059	236,8008103	0	0	TRUE	231,3682479	0	222,4296715	228,9365442	0	0	TRUE	37,0%	217,0374018	0	0	TRUE	35,1%
288	1	778,0207047	Non-Empty	468,0758184	222,5612268	0	0	TRUE	233,0839617	0	235,5377917	229,4094032	0	0	TRUE	29,5%	256,2891733	0	0	TRUE	32,9%
288	2	778,0207047	Non-Empty	487,642035	248,8528643	0	0	TRUE	266,10102	0	245,3835971	238,9990335	0	0	TRUE	30,7%	274,5955428	0	0	TRUE	35,3%
288	3	778,0207047	Non-Empty	590,4148307	306,6066136	0	0	TRUE	278,835723	0	297,0993158	309,612268	0	0	TRUE	39,8%	247,1359885	0	0	TRUE	31,8%
289	1	1743,896908	Empty	718,8233904	598,1799455	162,7131102	0,093304317	FALSE	610,9879799	0,061731661	610,9879799	519,0496896	241,8433661	0,138679853	FALSE	29,8%	616,5292098	183,5307767	0,105241758	FALSE	35,4%
289	2	1743,896908	Empty	690,7237026	550,8682062	162,7131102	0,093304317	FALSE	544,464189	0,061731661	544,464189	498,7594008	241,8433661	0,138679853	FALSE	28,6%	510,8384881	183,5307767	0,105241758	FALSE	29,3%
289	3	1743,896908	Empty	734,7042526	594,8487561	162,7131102	0,093304317	FALSE	588,4447389	0,061731661	588,4447389	726,0878173	241,8433661	0,138679853	FALSE	41,6%	616,5292098	183,5307767	0,105241758	FALSE	35,4%
290	1	1338,291095	Non-Empty	878,514874	478,569993	0	0	TRUE	497,0466295	0	453,319237	406,1088924	0	0	TRUE	30,3%	504,0317112	0	0	TRUE	37,7%
290	2	1338,291095	Non-Empty	817,8575253	392,1391323	0	0	TRUE	384,8422569	0	422,0196486	378,0689702	0	0	TRUE	28,3%	399,7492882	0	0	TRUE	29,9%
290	3	1338,291095	Non-Empty	897,1832484	467,5819698	0	0	TRUE	456,4022087	0	462,9522228	554,1132325	0	0	TRUE	41,4%	434,5100958	0	0	TRUE	32,5%
291	1	1414,302381	Empty	725,4269448	481,862788	133,7955198	0,094601778	FALSE	465,034379	0,084577264	465,034379	470,8085063	156,2580199	0,110484167	FALSE	33,3%	471,4341269	198,1621558	0,140113004	FALSE	33,3%
291	2	1414,302381	Empty	635,3020686	434,7791643	133,7955198	0,094601778	FALSE	460,9920078	0,084577264	460,9920078	412,3166642	156,2580199	0,110484167	FALSE	29,2%	370,4125283	198,1621558	0,140113004	FALSE	26,2%
291	3	1414,302381	Empty	733,7806108	497,6604285	133,7955198	0,094601778	FALSE	488,275994	0,084577264	488,275994	531,1772103	156,2580199	0,110484167	FALSE	37,6%	572,4557256	198,1621558	0,140113004	FALSE	40,5%
292	1	953,0822607	Non-Empty	541,748728	378,9267484	0	0	TRUE	383,8622048	0	354,5366722	300,4791152	0,31107119	0,000326384	FALSE	31,5%	367,4534017	0	0	TRUE	38,6%
292	2	953,0822607	Non-Empty	458,4383532	270,9594902	0	0	TRUE	251,2380633	0	300,0158556	254,2712952	0,31107119	0,000326384	FALSE	26,7%	298,5558889	0	0	TRUE	31,3%
292	3	953,0822607	Non-Empty	456,1674878	303,1960221	0	0	TRUE	317,9819925	0	328,5297329	398,3318503	0,31107119	0,000326384	FALSE	41,8%	287,0729701	0	0	TRUE	30,1%
293	1	1493,840237	Empty	755,3569306	519,7249922	138,4139074	0,092656433	FALSE	517,2564999	0,074757969	517,2564999	474,2733127	186,9360252	0,125137897	FALSE	31,7%	515,1173232	140,0368599	0,093742862	FALSE	34,5%
293	2	1493,840237	Empty	716,4568061	498,3708304	138,4139074	0,092656433	FALSE	513,4483009	0,074757969	513,4483009	449,8487127	186,9360252	0,125137897	FALSE	30,1%	532,2879006	140,0368599	0,093742862	FALSE	35,6%
293	3	1493,840237	Empty	721,5168389	475,7444145	138,4139074	0,092656433	FALSE	463,1354363	0,074757969	463,1354363	569,7182118	186,9360252	0,125137897	FALSE	38,1%	446,4350134	140,0368599	0,093742862	FALSE	29,9%
294	1	1379,908991	Empty	500,2261588	480,580038	104,1334807	0,075464021	FALSE	439,0485618	0,12902618	439,0485618	358,5206917	154,192827	0,111741302	FALSE	26,0%	454,9150521	131,6655577	0,095416117	FALSE	33,0%
294	2	1379,908991	Empty	601,4364394	468,7971208	104,1334807	0,075464021	FALSE	458,2724468	0,12902618	458,2724468	431,0598407	154,192827	0,111741302	FALSE	31,2%	500,4065573	131,6655577	0,095416117	FALSE	36,3%
294	3	1379,908991	Empty	644,5903267	502,5318324	104,1334807	0,075464021	FALSE	482,5879827	0,12902618	482,5879827	590,3284589	154,192827	0,111741302	FALSE	42,8%	424,5873819	131,6655577	0,095416117	FALSE	30,8%
295	1	1412,957243	Empty	635,9177421	449,5213861	105,5305285	0,074687701	FALSE	445,8102346	0,033906849	445,8102346	405,4593858	157,9923718	0,11181681	FALSE	28,7%	485,7040521	162,78965	0,115212014	FALSE	34,4%
295	2	1412,957243	Empty	712,6561418	523,5008152	105,5305285	0,074687701	FALSE	517,0306931	0,033906849	517,0306931	454,3875762	157,9923718	0,11181681	FALSE	32,2%	544,5772706	162,78965	0,115212014	FALSE	38,5%
295	3	1412,957243	Empty	612,4389723	439,9350414	105,5305285	0,074687701	FALSE	450,1163149	0,033906849	450,1163149	553,1102806	157,9923718								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
311	1	934,5410608	Non-Empty	611,898453	299,40024	0	0	TRUE	308,3196336	0	301,1618245	271,145607	0	0	TRUE	29,0%	354,8890104	0	0	TRUE	38,0%
311	2	934,5410608	Non-Empty	646,2412171	312,2327492	0	0	TRUE	299,6418878	0	318,0645139	286,363638	0	0	TRUE	30,6%	248,4223073	0	0	TRUE	26,6%
311	3	934,5410608	Non-Empty	640,6542103	322,9080716	0	0	TRUE	326,5795394	0	315,3147224	377,0318159	0	0	TRUE	40,3%	331,2297431	0	0	TRUE	35,4%
312	1	857,1395276	Empty	349,4759513	234,5022959	41,82955291	0,048801335	FALSE	223,0527517	0,150291384	223,0527517	257,1036691	59,63674131	0,069576468	FALSE	30,0%	273,5551684	169,7020953	0,197986547	FALSE	31,9%
312	2	857,1395276	Empty	356,1421269	261,1625415	41,82955291	0,048801335	FALSE	269,7070673	0,150291384	269,7070673	262,0078641	59,63674131	0,069576468	FALSE	30,6%	355,6217189	169,7020953	0,197986547	FALSE	41,5%
312	3	857,1395276	Empty	462,0937831	361,4746902	41,82955291	0,048801335	FALSE	364,3797086	0,150291384	364,3797086	338,0279943	59,63674131	0,069576468	FALSE	39,4%	227,9626403	169,7020953	0,197986547	FALSE	26,6%
313	1	896,4788536	Non-Empty	501,8256346	268,1534698	0	0	TRUE	268,7870142	0	281,2787295	247,2609679	0	0	TRUE	27,6%	301,7849606	0	0	TRUE	33,7%
313	2	896,4788536	Non-Empty	565,1603245	344,2188742	0	0	TRUE	357,5831331	0	316,7785125	278,4674182	0	0	TRUE	31,1%	346,1651019	0	0	TRUE	38,6%
313	3	896,4788536	Non-Empty	532,410022	284,1065096	0	0	TRUE	270,1087064	0	298,4216116	370,7504675	0	0	TRUE	41,4%	248,5287911	0	0	TRUE	27,7%
314	1	1218,423158	Empty	509,0527417	391,8323876	75,32292332	0,061820003	FALSE	368,5107242	0,155039183	368,5107242	353,890006	149,7408892	0,122897278	FALSE	29,0%	469,600592	127,067945	0,104288846	FALSE	38,5%
314	2	1218,423158	Empty	496,8293465	419,8103506	75,32292332	0,061820003	FALSE	436,6900455	0,155039183	436,6900455	345,3923847	149,7408892	0,122897278	FALSE	28,3%	368,0653289	127,067945	0,104288846	FALSE	30,2%
314	3	1218,423158	Empty	494,237142	406,7804195	75,32292332	0,061820003	FALSE	413,2223879	0,155039183	413,2223879	519,140767	149,7408892	0,122897278	FALSE	42,6%	380,7572368	127,067945	0,104288846	FALSE	31,3%
315	1	928,4158319	Empty	416,4191673	352,2288042	64,19036316	0,069139669	FALSE	378,9222487	0,251215703	378,9222487	266,5621363	149,8570311	0,161411542	FALSE	28,7%	316,0564534	100,3627139	0,108101037	FALSE	34,0%
315	2	928,4158319	Empty	397,8302108	300,8141361	64,19036316	0,069139669	FALSE	294,6818691	0,251215703	294,6818691	254,6627994	149,8570311	0,161411542	FALSE	27,4%	256,7958684	100,3627139	0,108101037	FALSE	27,7%
315	3	928,4158319	Empty	386,8178768	275,3728916	64,19036316	0,069139669	FALSE	254,811714	0,251215703	254,811714	407,1908962	149,8570311	0,161411542	FALSE	43,9%	355,5635101	100,3627139	0,108101037	FALSE	38,3%
316	1	1423,814947	Empty	740,163366	497,3529792	144,4410967	0,101446538	FALSE	469,4425804	0,098996235	469,4425804	498,4372788	150,7143431	0,10585248	FALSE	35,0%	458,2392934	147,3061103	0,103458747	FALSE	32,2%
316	2	1423,814947	Empty	588,6179801	402,6575553	144,4410967	0,101446538	FALSE	431,5971186	0,098996235	431,5971186	396,3843089	150,7143431	0,10585248	FALSE	27,8%	474,6049825	147,3061103	0,103458747	FALSE	33,3%
316	3	1423,814947	Empty	739,7335654	523,8044129	144,4410967	0,101446538	FALSE	522,7752484	0,098996235	522,7752484	528,9933597	150,7143431	0,10585248	FALSE	37,2%	490,9706715	147,3061103	0,103458747	FALSE	34,5%
317	1	1694,611585	Empty	717,6665074	547,8602423	181,3874699	0,107037785	FALSE	561,4807046	0,046763975	561,4807046	505,705443	223,5422692	0,131913573	FALSE	29,8%	449,5908288	279,6568834	0,165027128	FALSE	26,5%
317	2	1694,611585	Empty	745,2785075	555,041549	181,3874699	0,107037785	FALSE	548,2313179	0,046763975	548,2313179	525,1623058	223,5422692	0,131913573	FALSE	31,0%	657,0942882	279,6568834	0,165027128	FALSE	38,8%
317	3	1694,611585	Empty	781,9467527	591,7097942	181,3874699	0,107037785	FALSE	584,899563	0,046763975	584,899563	663,7438367	223,5422692	0,131913573	FALSE	39,2%	587,9264684	279,6568834	0,165027128	FALSE	34,7%
318	1	1215,336498	Non-Empty	732,1735731	373,4637926	0	0	TRUE	382,0015994	0	384,0340215	357,4341827	0	0	TRUE	29,4%	443,0914317	0	0	TRUE	36,5%
318	2	1215,336498	Non-Empty	771,1037936	408,2733857	0	0	TRUE	412,6905652	0	404,4533998	376,4392275	0	0	TRUE	31,0%	417,7719214	0	0	TRUE	34,4%
318	3	1215,336498	Non-Empty	813,8018938	433,5993202	0	0	TRUE	420,6443339	0	426,8490772	481,4630883	0	0	TRUE	39,6%	354,4731454	0	0	TRUE	29,2%
319	1	1272,196869	Non-Empty	631,866598	446,71081	0	0	TRUE	458,6269453	0	431,3906059	376,9179339	0	0	TRUE	29,6%	415,6682838	0	0	TRUE	32,7%
319	2	1272,196869	Non-Empty	570,0066899	369,0869414	0	0	TRUE	365,2391164	0	389,1573508	340,0175678	0	0	TRUE	26,7%	466,0523182	0	0	TRUE	36,6%
319	3	1272,196869	Non-Empty	661,539351	456,3991173	0	0	TRUE	448,3308069	0	451,6489119	555,261367	0	0	TRUE	43,6%	390,4762666	0	0	TRUE	30,7%
320	1	796,0483224	Non-Empty	519,8293548	250,0576393	0	0	TRUE	268,4317874	0	249,2097539	217,8918591	0	0	TRUE	27,4%	254,7354632	0	0	TRUE	32,0%
320	2	796,0483224	Non-Empty	609,2455571	311,9126195	0	0	TRUE	302,7255454	0	292,0746939	255,3715866	0	0	TRUE	32,1%	265,3494408	0	0	TRUE	33,3%
320	3	796,0483224	Non-Empty	531,4110013	234,0780636	0	0	TRUE	224,8909896	0	254,7620746	322,7848767	0	0	TRUE	40,5%	275,9634184	0	0	TRUE	34,7%
321	1	631,9878392	Non-Empty	443,18693	237,9312736	0	0	TRUE	238,9810779	0	223,9090295	197,2565148	0	0	TRUE	31,2%	228,9811012	0	0	TRUE	36,2%
321	2	631,9878392	Non-Empty	408,172977	200,8194891	0	0	TRUE	199,7714618	0	206,219112	181,6722774	0	0	TRUE	28,7%	210,6626131	0	0	TRUE	33,3%
321	3	631,9878392	Non-Empty	399,5443144	193,2370766	0	0	TRUE	193,2352995	0	201,8596977	253,0590471	0	0	TRUE	40,0%	192,344125	0	0	TRUE	30,4%
322	1	1331,570702	Non-Empty	803,898408	486,6622411	0	0	TRUE	468,9336	0	480,0012525	413,0502127	0	0	TRUE	31,0%	428,0048684	0	0	TRUE	32,1%
322	2	1331,570702	Non-Empty	704,8100492	430,835171	0	0	TRUE	456,3678187	0	420,8363931	362,1377252	0	0	TRUE	27,2%	475,5609649	0	0	TRUE	35,7%
322	3	1331,570702	Non-Empty	721,3848221	414,0732897	0	0	TRUE	406,2692831	0	430,7330563	556,3827639	0	0	TRUE	41,8%	428,0048684	0	0	TRUE	32,1%
323	1	1739,775618	Empty	762,6272417	570,8679358	123,8353549	0,071178923	FALSE	569,8383733	0,015338254	569,8383733	499,6308325	191,6054606	0,110132283	FALSE	28,7%	504,0471417	180,5790338	0,103794439	FALSE	29,0%
323	2	1739,775618	Empty	822,3245833	623,5768497	123,8353549	0,071178923	FALSE	615,5588594	0,015338254	615,5588594	538,741201	191,6054606	0,110132283	FALSE	31,0%	585,3450677	180,5790338	0,103794439	FALSE	33,6%
323	3	1739,775618	Empty	727,0130231	545,3308325	123,8353549	0,071178923	FALSE	554,3783853	0,015338254	554,3783853	701,4035845	191,6054606	0,110132283	FALSE	40,3%	650,3834086	180,5790338	0,103794439	FALSE	37,4%
324	1	1164,815373	Empty	478,7517692	408,5007467	70,25102251	0,060310865	FALSE	438,9163909	0,18878478	438,9163909	315,6276229	163,1241464	0,14004292	FALSE	27,1%	396,0372269	82,71454235	0,071010861	FALSE	34,0%
324	2	1164,815373	Empty	510,6500543	394,1606309	70,25102251	0,060310865	FALSE	378,3378741	0,18878478	378,3378741	336,6572682	163,1241464	0,14004292	FALSE	28,9%	407,6853806	82,71454235	0,071010861	FALSE	35,0%
324	3	1164,815373	Empty	477,4135497	362,1539956	70,25102251	0,060310865	FALSE	347,5611082	0,18878478	347,5611082	512,5304822	163,1241464	0,14004292	FALSE	44,0%	361,0927657	82,71454235	0,071010861	FALSE	31,0%
325	1	1189,962785	Empty	499,2049457	381,265369	91,74520099	0,077099219	FALSE	383,5357913	0,044869641	383,5357913	341,0600957	127,6794451	0,107297007	FALSE	28,7%	379,7753568	121,3338954	0,101964445	FALSE	31,9%
325	2	1189,962785	Empty	541,014416	411,9925431	91,74520099	0,077099219	FALSE	403,1806693	0,044869641	403,1806693	369,6246002	127,6794451	0,107297007	FALSE	31,1%	443,0712496	121,3338954	0,101964445	FALSE	37,2%
325	3	1189,962785	Empty	510,3734202	396,7048726	91,74520099	0,077099219	FALSE	403,2463242	0,044869641	403,2463242	479,2780889	127,6794451	0,107297007	FALSE	40,3%	367,1161783	121,3338954	0,101964445	FALSE	30,9%
326	1	1635,832777	Empty	665,2891195	535,1412513	120,8631975	0,073884812	FALSE	545,1316374	0,046000042	545,1316374	451,1642922	204,8401566	0,125220719	FALSE	27,6%	522,0742907	133,9301581	0,081872768	FALSE	31,9%
326	2	1635,832777	Empty	731,7689783	586,2604935	120,8631975	0,073884812	FALSE	580,8902629	0,046000042	580,8902629	496,2474562	204,8401566	0,125220719	FALSE	30,3%	626,4891488	133,9301581	0,081872768	FALSE	38,3%
326	3	1635,832777	Empty	659,1894423	514,4310326	120,8631975	0,073884812	FALSE	509,8108772	0,046000042	509,8108772	688,421029	204,8401566	0,125220719	FALSE	42,1%	487,269338	133,93			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
342	1	1092,166841	Non-Empty	722,6934763	324,1605202	0	0	TRUE	318,7350786	0	347,4820778	338,275196	0	0	TRUE	31,0%	403,626876	0	0	TRUE	37,0%
342	2	1092,166841	Non-Empty	767,732501	362,9998717	0	0	TRUE	351,3747569	0	369,1375298	359,3568653	0	0	TRUE	32,9%	296,7844676	0	0	TRUE	27,2%
342	3	1092,166841	Non-Empty	781,063407	405,0064489	0	0	TRUE	422,0570054	0	375,5472333	394,5347795	0	0	TRUE	36,1%	391,7554973	0	0	TRUE	35,9%
343	1	1143,215454	Non-Empty	804,8097042	426,8069405	0	0	TRUE	446,3030396	0	393,9145214	351,9387143	0	0	TRUE	30,8%	436,2269495	0	0	TRUE	38,2%
343	2	1143,215454	Non-Empty	755,0133595	346,9778261	0	0	TRUE	336,4411554	0	369,541675	330,1630555	0	0	TRUE	28,9%	406,1423323	0	0	TRUE	35,5%
343	3	1143,215454	Non-Empty	775,8889782	369,4306872	0	0	TRUE	360,4712588	0	379,7592573	461,1136839	0	0	TRUE	40,3%	300,846172	0	0	TRUE	26,3%
344	1	1642,826965	Empty	749,3335038	560,7574523	107,3761365	0,065360588	FALSE	586,9701173	0,131694838	586,9701173	469,1169022	199,0166866	0,121142817	FALSE	28,6%	624,9885194	189,5446965	0,115377152	FALSE	38,0%
344	2	1642,826965	Empty	796,3347425	577,1022184	107,3761365	0,065360588	FALSE	572,6584109	0,131694838	572,6584109	498,5418184	199,0166866	0,121142817	FALSE	30,3%	464,2771859	189,5446965	0,115377152	FALSE	28,3%
344	3	1642,826965	Empty	741,5248687	504,9672947	107,3761365	0,065360588	FALSE	483,1984372	0,131694838	483,1984372	675,1582448	199,0166866	0,121142817	FALSE	41,1%	553,5612601	189,5446965	0,115377152	FALSE	33,7%
345	1	1020,84823	Empty	407,6755824	309,4603672	108,9232351	0,106698755	FALSE	320,0450076	0,053695293	320,0450076	291,6761602	126,7074421	0,124119765	FALSE	28,6%	362,2364687	132,9765562	0,130260848	FALSE	35,5%
345	2	1020,84823	Empty	460,5975422	344,3285334	108,9232351	0,106698755	FALSE	336,8593803	0,053695293	336,8593803	329,5397818	126,7074421	0,124119765	FALSE	32,3%	329,3058807	132,9765562	0,130260848	FALSE	32,3%
345	3	1020,84823	Empty	478,9746727	367,0593296	108,9232351	0,106698755	FALSE	363,9438422	0,053695293	363,9438422	399,6322881	126,7074421	0,124119765	FALSE	39,1%	329,3058807	132,9765562	0,130260848	FALSE	32,3%
346	1	1078,339886	Non-Empty	766,6167715	379,9817092	0	0	TRUE	368,1525518	0	375,2902461	347,3788631	0	0	TRUE	32,2%	363,0055061	0	0	TRUE	33,7%
346	2	1078,339886	Non-Empty	697,2022884	337,0271081	0	0	TRUE	351,6578326	0	341,3090192	315,9249149	0	0	TRUE	29,3%	405,7120362	0	0	TRUE	37,6%
346	3	1078,339886	Non-Empty	738,9385403	361,3310685	0	0	TRUE	358,5295014	0	361,7406205	415,0361078	0	0	TRUE	38,5%	309,6223434	0	0	TRUE	28,7%
347	1	840,2374281	Non-Empty	534,0692362	358,2740965	0	0	TRUE	331,6342271	0	348,4847656	296,0030471	8,670781572	0,010319442	FALSE	35,2%	280,0791427	20,40724463	0,024287474	FALSE	33,3%
347	2	840,2374281	Non-Empty	372,7509176	235,0040478	0	0	TRUE	246,4124483	0	243,2231766	206,593827	8,670781572	0,010319442	FALSE	24,6%	261,4071998	20,40724463	0,024287474	FALSE	31,1%
347	3	840,2374281	Non-Empty	380,8830853	246,9592838	0	0	TRUE	262,1907527	0	248,5294859	337,6405539	8,670781572	0,010319442	FALSE	40,2%	298,7510855	20,40724463	0,024287474	FALSE	35,6%
348	1	987,3698417	Non-Empty	576,0612537	294,2553145	0	0	TRUE	309,2560619	0	302,9151698	273,1526855	0	0	TRUE	27,7%	360,2565638	0	0	TRUE	36,5%
348	2	987,3698417	Non-Empty	665,2530598	349,2659581	0	0	TRUE	330,0855429	0	349,7999472	315,4450306	0	0	TRUE	31,9%	293,5423854	0	0	TRUE	29,7%
348	3	987,3698417	Non-Empty	636,4755876	343,848569	0	0	TRUE	348,0282368	0	334,6683246	398,7721256	0	0	TRUE	40,4%	333,5708925	0	0	TRUE	33,8%
349	1	1161,208217	Non-Empty	615,1963547	356,4333209	0	0	TRUE	381,9689159	0	354,6842793	313,7300373	0	0	TRUE	27,0%	427,1110685	0	0	TRUE	36,8%
349	2	1161,208217	Non-Empty	708,976236	421,3684437	0	0	TRUE	418,0592802	0	408,7519754	361,5547121	0	0	TRUE	31,1%	373,7221849	0	0	TRUE	32,2%
349	3	1161,208217	Non-Empty	689,9315131	383,4064528	0	0	TRUE	361,1800213	0	397,7719627	485,923468	0	0	TRUE	41,8%	360,374964	0	0	TRUE	31,0%
350	1	900,6462663	Non-Empty	488,7786914	271,5538104	0	0	TRUE	263,2302276	0	288,2225143	243,5741278	0	0	TRUE	27,0%	330,8496489	0	0	TRUE	36,7%
350	2	900,6462663	Non-Empty	580,6164762	376,1418973	0	0	TRUE	380,5686165	0	342,3773244	289,339847	0	0	TRUE	32,1%	303,2788448	0	0	TRUE	33,7%
350	3	900,6462663	Non-Empty	457,954993	252,9505586	0	0	TRUE	256,8474222	0	270,0464276	367,7322915	0	0	TRUE	40,8%	266,5177727	0	0	TRUE	29,6%
351	1	780,4302365	Non-Empty	423,7685359	252,1406222	0	0	TRUE	272,2015515	0	243,9856442	218,3888206	0	0	TRUE	28,0%	248,3187116	0	0	TRUE	31,8%
351	2	780,4302365	Non-Empty	458,0477353	266,6397147	0	0	TRUE	266,9205372	0	263,7219885	236,0545822	0	0	TRUE	30,2%	248,3187116	0	0	TRUE	31,8%
351	3	780,4302365	Non-Empty	473,6804944	261,6498996	0	0	TRUE	241,3081478	0	272,7225838	325,9868337	0	0	TRUE	41,8%	283,7928133	0	0	TRUE	36,4%
352	1	1351,01906	Empty	580,4171462	422,6806564	111,2550297	0,082348971	FALSE	420,0422859	0,062328	420,0422859	400,2127686	120,605194	0,089269795	FALSE	29,6%	378,9443704	141,7328917	0,104908136	FALSE	28,0%
352	2	1351,01906	Empty	615,2906899	452,2108877	111,2550297	0,082348971	FALSE	444,2292047	0,062328	444,2292047	424,258987	120,605194	0,089269795	FALSE	31,4%	477,7994236	141,7328917	0,104908136	FALSE	35,4%
352	3	1351,01906	Empty	620,6055816	476,1275158	111,2550297	0,082348971	FALSE	486,7475692	0,062328	486,7475692	526,5473042	120,605194	0,089269795	FALSE	39,0%	494,2752658	141,7328917	0,104908136	FALSE	36,6%
353	1	1101,655329	Empty	534,2739805	384,2504126	74,88356246	0,067973676	FALSE	371,3513416	0,152922969	371,3513416	347,5531949	126,4283481	0,114762163	FALSE	31,5%	379,0641991	54,87200771	0,049808689	FALSE	34,4%
353	2	1101,655329	Empty	455,98241	348,1681459	74,88356246	0,067973676	FALSE	377,4783787	0,152922969	377,4783787	296,6233603	126,4283481	0,114762163	FALSE	26,9%	379,0641991	54,87200771	0,049808689	FALSE	34,4%
353	3	1101,655329	Empty	522,7724285	369,2367701	74,88356246	0,067973676	FALSE	352,8256084	0,152922969	352,8256084	457,4787735	126,4283481	0,114762163	FALSE	41,5%	343,5269304	54,87200771	0,049808689	FALSE	31,2%
354	1	1438,722098	Empty	596,8913538	456,1019848	138,80267	0,096476359	FALSE	444,275556	0,138274241	444,275556	428,711942	201,0531762	0,139744275	FALSE	29,8%	401,5038414	165,7004014	0,11517193	FALSE	27,9%
354	2	1438,722098	Empty	568,1678481	470,332044	138,80267	0,096476359	FALSE	501,4591799	0,138274241	501,4591799	408,0815378	201,0531762	0,139744275	FALSE	28,4%	602,255762	165,7004014	0,11517193	FALSE	41,9%
354	3	1438,722098	Empty	660,5517167	512,2880694	138,80267	0,096476359	FALSE	492,9873622	0,138274241	492,9873622	601,9286184	201,0531762	0,139744275	FALSE	41,8%	434,9624948	165,7004014	0,11517193	FALSE	30,2%
355	1	995,1397497	Non-Empty	678,9284883	321,8378452	0	0	TRUE	325,1543801	0	325,3907358	312,6357331	0	0	TRUE	31,4%	364,0755182	0	0	TRUE	36,6%
355	2	995,1397497	Non-Empty	660,8788961	310,6664627	0	0	TRUE	320,8612072	0	316,7008998	304,324184	0	0	TRUE	30,6%	339,803817	0	0	TRUE	34,1%
355	3	995,1397497	Non-Empty	736,553899	362,6354417	0	0	TRUE	349,1241624	0	353,0089241	378,1798326	0	0	TRUE	38,0%	291,2604145	0	0	TRUE	29,3%
356	1	996,2678436	Non-Empty	617,8421985	340,5088652	0	0	TRUE	340,5088652	0	336,6773183	300,4299398	0	0	TRUE	30,2%	386,9001334	0	0	TRUE	38,8%
356	2	996,2678436	Non-Empty	614,5835215	337,2501882	0	0	TRUE	337,2501882	0	334,9015856	298,8453861	0	0	TRUE	30,0%	299,8476034	0	0	TRUE	30,1%
356	3	996,2678436	Non-Empty	595,8421236	318,5087903	0	0	TRUE	318,5087903	0	324,6889397	396,9925177	0	0	TRUE	39,8%	309,5201068	0	0	TRUE	31,1%
357	1	1325,575719	Non-Empty	770,3556433	441,4733305	0	0	TRUE	439,8073109	0	442,5944212	406,6171807	0	0	TRUE	30,7%	364,1691535	0	0	TRUE	27,5%
357	2	1325,575719	Non-Empty	749,1249556	405,6525573	0	0	TRUE	389,3964522	0	430,3966992	395,4109768	0	0	TRUE	29,8%	437,0029843	0	0	TRUE	33,0%
357	3	1325,575719	Non-Empty	787,7439997	478,4498311	0	0	TRUE	496,3719558	0	452,5845986	523,5475614	0	0	TRUE	39,5%	524,4035811	0	0	TRUE	39,6%
358	1	1295,374873	Empty	611,3281013	430,8732388	120,6071072	0,093105949	FALSE	418,2005082	0,062884024	418,2005082	421,1914316	134,5313593	0,103855156	FALSE	32,5%	327,7454499	202,4786598	0,15630893	FALSE	25,3%
358	2	1295,374873	Empty	556,6252979	397,4266717	120,6071072	0,093105949	FALSE	406,0101775	0,062884024	406,0101775	383,5024197	134,5313593	0,103855156	FALSE	29,6%	452,6008594	202,4786598	0,15630893	FALSE	34,9%
358	3	1295,374873	Empty	630,7678699	467,0749629	120,6071072	0,0														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
373	1	729,0836925	Non-Empty	590,46436	309,3732942	0	0	TRUE	295,1831563	0	281,410473	252,704196	0	0	TRUE	34,7%	252,3751243	0	0	TRUE	34,6%
373	2	729,0836925	Non-Empty	457,1120806	210,3868613	0	0	TRUE	230,5625699	0	217,85587	195,6327065	0	0	TRUE	26,8%	280,4168048	0	0	TRUE	38,5%
373	3	729,0836925	Non-Empty	482,2100355	209,3235369	0	0	TRUE	203,3379663	0	229,8173495	280,74679	0	0	TRUE	38,5%	196,2917634	0	0	TRUE	26,9%
374	1	726,5584381	Non-Empty	503,7242836	264,3561994	0	0	TRUE	257,629693	0	256,9981577	239,9981577	0	0	TRUE	33,0%	242,186146	0	0	TRUE	33,3%
374	2	726,5584381	Non-Empty	426,5307301	204,0422338	0	0	TRUE	214,1953152	0	217,5522374	203,2194849	0	0	TRUE	28,0%	227,0495119	0	0	TRUE	31,3%
374	3	726,5584381	Non-Empty	494,2281576	258,1600049	0	0	TRUE	254,73343	0	252,0813482	283,3407955	0	0	TRUE	39,0%	257,3227802	0	0	TRUE	35,4%
375	1	1191,090531	Non-Empty	701,3027738	382,5723388	0	0	TRUE	377,7897152	0	391,627264	352,2790797	0	0	TRUE	29,6%	382,3253555	0	0	TRUE	32,1%
375	2	1191,090531	Non-Empty	705,6011443	398,5943589	0	0	TRUE	405,5353848	0	394,0275955	354,4382413	0	0	TRUE	29,8%	441,144641	0	0	TRUE	37,0%
375	3	1191,090531	Non-Empty	726,0300466	409,9238329	0	0	TRUE	407,7654306	0	405,4356711	484,3732096	0	0	TRUE	40,7%	367,6205341	0	0	TRUE	30,9%
376	1	992,652165	Non-Empty	612,1701029	368,5706519	0	0	TRUE	372,3688595	0	350,2744791	312,3039538	0	0	TRUE	31,5%	413,6050687	0	0	TRUE	41,7%
376	2	992,652165	Non-Empty	539,9090088	294,6177564	0	0	TRUE	296,7241624	0	308,9277734	275,4393221	0	0	TRUE	27,7%	295,432192	0	0	TRUE	29,8%
376	3	992,652165	Non-Empty	582,7660289	329,4637567	0	0	TRUE	323,5591431	0	333,4499125	404,9088891	0	0	TRUE	40,8%	283,6149043	0	0	TRUE	28,6%
377	1	1511,165243	Empty	635,9739999	535,7992434	92,62957476	0,061296787	FALSE	537,624487	0,060281999	537,624487	441,1089325	179,774704	0,118964293	FALSE	29,2%	583,8592986	170,3003148	0,112694701	FALSE	38,6%
377	2	1511,165243	Empty	606,3961461	493,2004772	92,62957476	0,061296787	FALSE	482,0048084	0,060281999	482,0048084	420,5938556	179,774704	0,118964293	FALSE	27,8%	394,9636432	170,3003148	0,112694701	FALSE	26,1%
377	3	1511,165243	Empty	574,7950974	482,1655227	92,62957476	0,061296787	FALSE	491,5359479	0,060281999	491,5359479	649,4624553	179,774704	0,118964293	FALSE	43,0%	532,3423016	170,3003148	0,112694701	FALSE	35,2%
378	1	969,2238951	Non-Empty	789,0209401	335,3437887	0	0	TRUE	300,9001862	0	343,4054161	319,5376489	0	0	TRUE	33,0%	242,3059738	0	0	TRUE	25,0%
378	2	969,2238951	Non-Empty	690,4398459	292,1734421	0	0	TRUE	313,1405872	0	300,4999874	279,6142838	0	0	TRUE	28,8%	363,4589607	0	0	TRUE	37,5%
378	3	969,2238951	Non-Empty	747,4637561	341,7066644	0	0	TRUE	355,1831217	0	325,3184917	370,0719624	0	0	TRUE	38,2%	363,4589607	0	0	TRUE	37,5%
379	1	1673,440707	Empty	706,7907348	534,1538135	105,3337934	0,062944443	FALSE	537,2523175	0,044139151	537,2523175	477,2166241	156,4827137	0,093509566	FALSE	28,5%	587,4845034	132,9690407	0,079458471	FALSE	35,1%
379	2	1673,440707	Empty	765,2955272	577,5748247	105,3337934	0,062944443	FALSE	565,5895476	0,044139151	565,5895476	516,718358	156,4827137	0,093509566	FALSE	30,9%	551,879382	132,9690407	0,079458471	FALSE	33,0%
379	3	1673,440707	Empty	728,5607207	561,7120685	105,3337934	0,062944443	FALSE	570,5988417	0,044139151	570,5988417	679,5057246	156,4827137	0,093509566	FALSE	40,6%	534,0768213	132,9690407	0,079458471	FALSE	31,9%
380	1	1749,92931	Empty	804,114674	547,9460664	137,9510384	0,078832349	FALSE	542,5840415	0,036579738	542,5840415	522,1911522	185,6598189	0,106095611	FALSE	29,8%	718,3920326	305,7112434	0,174699196	FALSE	41,1%
380	2	1749,92931	Empty	865,6295294	614,9518426	137,9510384	0,078832349	FALSE	615,0807386	0,036579738	615,0807386	562,1388291	185,6598189	0,106095611	FALSE	32,1%	442,0874046	305,7112434	0,174699196	FALSE	25,3%
380	3	1749,92931	Empty	832,6048549	587,0314011	137,9510384	0,078832349	FALSE	592,26453	0,036579738	592,26453	665,5993288	185,6598189	0,106095611	FALSE	38,0%	589,4498729	305,7112434	0,174699196	FALSE	33,7%
381	1	1804,238299	Empty	733,0321304	575,4518051	143,6612111	0,0796243	FALSE	593,2583366	0,088803375	593,2583366	533,346962	185,7660542	0,102960931	FALSE	29,6%	630,3965142	148,9515937	0,082556497	FALSE	34,9%
381	2	1804,238299	Empty	743,5608303	551,9613486	143,6612111	0,0796243	FALSE	535,7487236	0,088803375	535,7487236	541,0075404	185,7660542	0,102960931	FALSE	30,6%	521,70746	148,9515937	0,082556497	FALSE	28,9%
381	3	1804,238299	Empty	853,8059089	676,8251456	143,6612111	0,0796243	FALSE	675,2312391	0,088803375	675,2312391	729,8837969	185,7660542	0,102960931	FALSE	40,5%	652,1343251	148,9515937	0,082556497	FALSE	36,1%
382	1	1131,380871	Empty	500,9943457	334,8565999	97,97484992	0,086597584	FALSE	347,2624034	0,03909443	347,2624034	317,8800983	118,8606222	0,105058009	FALSE	28,1%	323,2516774	111,4608588	0,098517539	FALSE	28,6%
382	2	1131,380871	Empty	603,935374	420,939687	97,97484992	0,086597584	FALSE	416,4876293	0,03909443	416,4876293	383,1960135	118,8606222	0,105058009	FALSE	33,9%	390,5957769	111,4608588	0,098517539	FALSE	34,5%
382	3	1131,380871	Empty	562,0820393	375,5846241	97,97484992	0,086597584	FALSE	367,6308383	0,03909443	367,6308383	430,3047592	118,8606222	0,105058009	FALSE	38,0%	417,5334167	111,4608588	0,098517539	FALSE	36,9%
383	1	855,593125	Non-Empty	491,4388165	281,5841923	0	0	TRUE	291,7838663	0	277,4006286	259,5499652	0	0	TRUE	30,3%	265,5289009	0	0	TRUE	31,0%
383	2	855,593125	Non-Empty	465,7533348	251,7795674	0	0	TRUE	257,8600983	0	262,902041	245,9843581	0	0	TRUE	28,8%	295,0321121	0	0	TRUE	34,5%
383	3	855,593125	Non-Empty	558,5638685	322,2293653	0	0	TRUE	305,9491604	0	315,2904554	350,0588017	0	0	TRUE	40,9%	295,0321121	0	0	TRUE	34,5%
384	1	832,0013006	Non-Empty	470,5372823	290,3609261	0	0	TRUE	287,8544461	0	286,8018289	242,4022636	7,164653392	0,008611349	FALSE	29,1%	297,8770089	0	0	TRUE	35,8%
384	2	832,0013006	Non-Empty	469,9229717	305,1187099	0	0	TRUE	317,9843243	0	286,4273943	242,085795	7,164653392	0,008611349	FALSE	29,1%	287,6053879	0	0	TRUE	34,6%
384	3	832,0013006	Non-Empty	424,5506749	236,5216646	0	0	TRUE	226,1625303	0	258,7720774	347,513242	7,164653392	0,008611349	FALSE	41,8%	246,5189039	0	0	TRUE	29,6%
385	1	1239,739411	Non-Empty	765,5394875	432,8836335	0	0	TRUE	418,2281143	0	432,6261515	386,187425	0	0	TRUE	31,2%	436,7263834	0	0	TRUE	35,2%
385	2	1239,739411	Non-Empty	687,9931633	399,4857427	0	0	TRUE	428,9786569	0	388,8027193	347,0680644	0	0	TRUE	28,0%	450,8143313	0	0	TRUE	36,4%
385	3	1239,739411	Non-Empty	740,2077647	407,3700348	0	0	TRUE	392,5326397	0	418,3105402	506,4839215	0	0	TRUE	40,9%	352,1986963	0	0	TRUE	28,4%
386	1	1337,350211	Empty	619,2755224	437,7208758	131,6856522	0,09846759	FALSE	434,0359054	0,076919389	434,0359054	411,1212297	175,2367486	0,131032804	FALSE	30,7%	430,923957	122,8061426	0,091827961	FALSE	32,2%
386	2	1337,350211	Empty	611,5667457	449,5546658	131,6856522	0,09846759	FALSE	465,4122622	0,076919389	465,4122622	406,0035694	175,2367486	0,131032804	FALSE	30,4%	475,5022974	122,8061426	0,091827961	FALSE	35,6%
386	3	1337,350211	Empty	640,1169724	450,0746699	131,6856522	0,09846759	FALSE	437,9020438	0,076919389	437,9020438	520,2254124	175,2367486	0,131032804	FALSE	38,9%	430,923957	122,8061426	0,091827961	FALSE	32,2%
387	1	1624,464395	Empty	763,2726992	550,9728749	114,8665108	0,070771039	FALSE	552,5958488	0,043792298	552,5958488	490,5675296	165,7723429	0,102047385	FALSE	30,2%	492,2619379	164,0779346	0,101004328	FALSE	30,3%
387	2	1624,464395	Empty	777,3944885	550,7262292	114,8665108	0,070771039	FALSE	537,9807682	0,043792298	537,9807682	499,6438286	165,7723429	0,102047385	FALSE	30,8%	607,1230567	164,0779346	0,101004328	FALSE	37,4%
387	3	1624,464395	Empty	725,565602	522,7652909	114,8665108	0,070771039	FALSE	538,8877781	0,043792298	538,8877781	634,2530369	165,7723429	0,102047385	FALSE	39,0%	525,0794004	164,0779346	0,101004328	FALSE	32,3%
388	1	1135,723344	Empty	493,5694305	379,9921181	113,5773124	0,100004383	FALSE	431,016259	0,25716074	431,016259	308,7723304	184,7971001	0,16271313	FALSE	27,2%	385,717362	107,8520685	0,094963328	FALSE	34,0%
388	2	1135,723344	Empty	589,9436682	394,4041227	113,5773124	0,100004383	FALSE	363,4660305	0,25716074	363,4660305	369,0631347	184,7971001	0,16271313	FALSE	32,5%	364,2886197	107,8520685	0,094963328	FALSE	32,1%
388	3	1135,723344	Empty	546,0146048	361,3271028	113,5773124	0,100004383	FALSE	341,2410542	0,25716074	341,2410542	457,8878785	184,7971001	0,16271313	FALSE	40,3%	385,717362	107,8520685	0,094963328	FALSE	34,0%
389	1	1445,838061	Empty	609,2852869	467,4094907	111,9462463	0,077426545	FALSE	466,8964686												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
404	1	1557,396117	Empty	714,9392727	486,0596915	88,02889257	0,056523123	FALSE	453,1963722	0,170433973	453,1963722	463,2315191	172,5999318	0,110825968	FALSE	29,7%	398,845347	114,6330148	0,073605561	FALSE	25,6%
404	2	1557,396117	Empty	718,156385	549,8870259	88,02889257	0,056523123	FALSE	577,6339289	0,170433973	577,6339289	465,3159868	172,5999318	0,110825968	FALSE	29,9%	588,7717028	114,6330148	0,073605561	FALSE	37,8%
404	3	1557,396117	Empty	712,3492454	521,4493996	88,02889257	0,056523123	FALSE	526,5658159	0,170433973	526,5658159	628,8486112	172,5999318	0,110825968	FALSE	40,4%	569,7790672	114,6330148	0,073605561	FALSE	36,6%
405	1	1445,944034	Empty	634,9721426	499,3688449	115,9939587	0,080220227	FALSE	507,6353269	0,065123743	507,6353269	425,9607051	189,4020986	0,13098854	FALSE	29,5%	492,2362667	135,6109658	0,093787147	FALSE	34,0%
405	2	1445,944034	Empty	631,2083962	488,3468028	115,9939587	0,080220227	FALSE	489,3549891	0,065123743	489,3549891	423,4358572	189,4020986	0,13098854	FALSE	29,3%	461,4715001	135,6109658	0,093787147	FALSE	31,9%
405	3	1445,944034	Empty	611,3728336	458,2283858	115,9939587	0,080220227	FALSE	448,9537176	0,065123743	448,9537176	596,5474712	189,4020986	0,13098854	FALSE	41,3%	492,2362667	135,6109658	0,093787147	FALSE	34,0%
406	1	1842,70607	Empty	813,1727811	604,9717129	222,7244452	0,120868135	FALSE	593,006791	0,075812452	593,006791	564,9555779	239,9201876	0,130199923	FALSE	30,7%	526,4874487	267,8287643	0,145345353	FALSE	28,6%
406	2	1842,70607	Empty	831,2890651	625,6028175	222,7244452	0,120868135	FALSE	616,1527162	0,075812452	616,1527162	577,5419506	239,9201876	0,130199923	FALSE	31,3%	668,2340695	267,8287643	0,145345353	FALSE	36,3%
406	3	1842,70607	Empty	786,952663	612,1315399	222,7244452	0,120868135	FALSE	633,5465632	0,075812452	633,5465632	700,2085418	239,9201876	0,130199923	FALSE	38,0%	647,9845522	267,8287643	0,145345353	FALSE	35,2%
407	1	1088,652426	Non-Empty	780,1275095	362,5730309	0	0	TRUE	342,3197154	0	372,4038073	328,9603488	0	0	TRUE	30,2%	410,0119526	0	0	TRUE	37,7%
407	2	1088,652426	Non-Empty	765,4277158	393,624875	0	0	TRUE	419,1231975	0	365,3866735	322,7618117	0	0	TRUE	29,6%	296,9052071	0	0	TRUE	27,3%
407	3	1088,652426	Non-Empty	735,0006901	332,4545199	0	0	TRUE	327,2095129	0	350,8619451	436,9302653	0	0	TRUE	40,1%	381,7352662	0	0	TRUE	35,1%
408	1	1923,135978	Empty	793,8343775	618,5390276	169,4424539	0,08810737	FALSE	652,1853027	0,101498186	652,1853027	540,1748464	247,8066351	0,128855493	FALSE	28,1%	664,356065	179,7431229	0,093463554	FALSE	34,5%
408	2	1923,135978	Empty	877,622925	653,5260459	169,4424539	0,08810737	FALSE	638,3707918	0,101498186	638,3707918	597,1898448	247,8066351	0,128855493	FALSE	31,1%	594,4238476	179,7431229	0,093463554	FALSE	30,9%
408	3	1923,135978	Empty	878,5035503	651,0709042	169,4424539	0,08810737	FALSE	632,5798832	0,101498186	632,5798832	785,7712865	247,8066351	0,128855493	FALSE	40,9%	664,356065	179,7431229	0,093463554	FALSE	34,5%
409	1	1401,475271	Empty	606,7524713	458,2424576	70,54100243	0,050333391	FALSE	452,8039184	0,046148642	452,8039184	414,1350231	124,6223025	0,088922227	FALSE	29,5%	431,2231602	81,60402395	0,058227231	FALSE	30,8%
409	2	1401,475271	Empty	587,9076454	455,3539076	70,54100243	0,050333391	FALSE	465,8716443	0,046148642	465,8716443	401,2726076	124,6223025	0,088922227	FALSE	28,6%	492,8264688	81,60402395	0,058227231	FALSE	35,2%
409	3	1401,475271	Empty	636,0295771	487,8789053	70,54100243	0,050333391	FALSE	482,7997079	0,046148642	482,7997079	586,0676399	124,6223025	0,088922227	FALSE	41,8%	477,4256416	81,60402395	0,058227231	FALSE	34,1%
410	1	1433,54936	Empty	646,8428163	467,346418	55,90373857	0,038996731	FALSE	442,9989007	0,143291814	442,9989007	438,8188719	78,02932454	0,05443086	FALSE	30,6%	427,014703	50,02555068	0,034896288	FALSE	29,8%
410	2	1433,54936	Empty	603,7538791	451,0901298	55,90373857	0,038996731	FALSE	453,5752615	0,143291814	453,5752615	409,58729	78,02932454	0,05443086	FALSE	28,6%	457,5157533	50,02555068	0,034896288	FALSE	31,9%
410	3	1433,54936	Empty	648,399308	515,1128124	55,90373857	0,038996731	FALSE	536,975198	0,143291814	536,975198	585,1431983	78,02932454	0,05443086	FALSE	40,8%	549,0189039	50,02555068	0,034896288	FALSE	38,3%
411	1	1208,098428	Empty	516,8825291	435,9798746	90,44243328	0,074863464	FALSE	433,7140906	0,075215642	433,7140906	377,7884582	137,2496956	0,113608041	FALSE	31,3%	478,2056276	134,7884665	0,111570766	FALSE	39,6%
411	2	1208,098428	Empty	415,0653906	350,1777675	90,44243328	0,074863464	FALSE	363,9270149	0,075215642	363,9270149	303,3705051	137,2496956	0,113608041	FALSE	25,1%	377,5307586	134,7884665	0,111570766	FALSE	31,3%
411	3	1208,098428	Empty	512,0611196	421,9407855	90,44243328	0,074863464	FALSE	410,4573221	0,075215642	410,4573221	526,9394643	137,2496956	0,113608041	FALSE	43,6%	352,3620414	134,7884665	0,111570766	FALSE	29,2%
412	1	971,7255195	Non-Empty	599,4089126	337,1236881	0	0	TRUE	328,9336647	0	335,9038067	288,3190833	0	0	TRUE	29,7%	374,5192106	0	0	TRUE	38,5%
412	2	971,7255195	Non-Empty	610,4355672	349,9737218	0	0	TRUE	343,6070773	0	342,083053	293,6229667	0	0	TRUE	30,2%	283,4199432	0	0	TRUE	29,2%
412	3	971,7255195	Non-Empty	524,1666428	284,6281096	0	0	TRUE	299,1847774	0	293,7386598	389,7834695	0	0	TRUE	40,1%	313,7863657	0	0	TRUE	32,3%
413	1	936,7735927	Non-Empty	645,0152004	382,7199295	0	0	TRUE	368,843728	0	359,228384	313,3901078	0	0	TRUE	33,5%	356,3812581	0	0	TRUE	38,0%
413	2	936,7735927	Non-Empty	526,1406522	263,8453812	0	0	TRUE	249,9691798	0	293,0235693	255,6331628	0	0	TRUE	27,3%	244,3757198	0	0	TRUE	26,1%
413	3	936,7735927	Non-Empty	510,8749486	290,208282	0	0	TRUE	317,9606848	0	284,5216394	367,750322	0	0	TRUE	39,3%	336,0166148	0	0	TRUE	35,9%
414	1	1490,60265	Empty	648,9512892	478,7304104	133,4477911	0,089526066	FALSE	480,8879233	0,085695833	480,8879233	435,2066491	198,2498619	0,132999805	FALSE	29,2%	536,6169539	221,3722183	0,148511891	FALSE	36,0%
414	2	1490,60265	Empty	679,0579874	520,1991956	133,4477911	0,089526066	FALSE	533,7187954	0,085695833	533,7187954	455,3971248	198,2498619	0,132999805	FALSE	30,6%	432,2747684	221,3722183	0,148511891	FALSE	29,0%
414	3	1490,60265	Empty	679,7285477	491,6730436	133,4477911	0,089526066	FALSE	475,995931	0,085695833	475,995931	599,9988757	198,2498619	0,132999805	FALSE	40,3%	521,7109274	221,3722183	0,148511891	FALSE	35,0%
415	1	1701,056514	Empty	813,3830069	584,4496496	73,92197168	0,043456505	FALSE	573,3124709	0,028632211	573,3124709	532,9100596	120,3241029	0,070734924	FALSE	31,3%	651,4684522	130,7582816	0,076868864	FALSE	38,3%
415	2	1701,056514	Empty	734,0596088	527,3413032	73,92197168	0,043456505	FALSE	538,4191762	0,028632211	538,4191762	480,939172	120,3241029	0,070734924	FALSE	28,3%	470,5049933	130,7582816	0,076868864	FALSE	27,7%
415	3	1701,056514	Empty	807,0024341	589,2655613	73,92197168	0,043456505	FALSE	589,3248671	0,028632211	589,3248671	687,2072826	120,3241029	0,070734924	FALSE	40,4%	579,0830686	130,7582816	0,076868864	FALSE	34,0%
416	1	1201,820138	Non-Empty	795,8302005	436,4636057	0	0	TRUE	429,6368638	0	423,3105945	368,4433102	0	0	TRUE	30,7%	400,6067126	0	0	TRUE	33,3%
416	2	1201,820138	Non-Empty	777,5869125	411,7287551	0	0	TRUE	398,4104506	0	413,6067945	359,9972655	0	0	TRUE	30,0%	442,0487863	0	0	TRUE	36,8%
416	3	1201,820138	Non-Empty	686,0225836	353,627777	0	0	TRUE	373,7728234	0	364,9027487	473,379562	0	0	TRUE	39,4%	359,1646389	0	0	TRUE	29,9%
417	1	1147,172123	Non-Empty	735,7415956	391,2906932	0	0	TRUE	395,0992025	0	385,0553665	332,4141594	0	0	TRUE	29,0%	443,5732211	0	0	TRUE	38,7%
417	2	1147,172123	Non-Empty	741,6015987	401,5036139	0	0	TRUE	409,6650407	0	388,122239	335,0617574	0	0	TRUE	29,2%	382,3907078	0	0	TRUE	33,3%
417	3	1147,172123	Non-Empty	714,607164	354,3778163	0	0	TRUE	342,4078803	0	373,994518	479,6962067	0	0	TRUE	41,8%	321,2081946	0	0	TRUE	28,0%
418	1	667,3652973	Non-Empty	467,8183449	211,401968	0	0	TRUE	198,8009388	0	223,1935928	219,372568	0	0	TRUE	32,9%	182,7309743	0	0	TRUE	27,4%
418	2	667,3652973	Non-Empty	406,7695526	189,1162302	0	0	TRUE	215,2782557	0	194,0675454	190,7451521	0	0	TRUE	28,6%	246,289574	0	0	TRUE	36,9%
418	3	667,3652973	Non-Empty	524,2234433	266,8470992	0	0	TRUE	253,2861029	0	250,1041591	257,2475773	0	0	TRUE	38,5%	238,344749	0	0	TRUE	35,7%
419	1	1172,338092	Non-Empty	681,3307878	405,5371633	0	0	TRUE	392,7279391	0	407,5408544	349,333266	0	0	TRUE	29,8%	403,3851499	0	0	TRUE	34,4%
419	2	1172,338092	Non-Empty	652,0393763	402,4556788	0	0	TRUE	415,4013815	0	390,0200743	334,3149737	0	0	TRUE	28,5%	390,779364	0	0	TRUE	33,3%
419	3	1172,338092	Non-Empty	626,5561285	364,3452499	0	0	TRUE	364,6637714	0	374,7771633	488,6897917	0	0	TRUE	41,7%	378,17				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
435	1	1067,437295	Empty	464,3919812	328,486772	19,08579757	0,017880018	FALSE	339,3316669	0,065737598	339,3316669	304,9054906	42,66707901	0,039971509	FALSE	28,6%	291,1192622	56,45330739	0,052886767	FALSE	27,3%
435	2	1067,437295	Empty	498,6881441	341,7736927	19,08579757	0,017880018	FALSE	331,6093454	0,065737598	331,6093454	327,4232962	42,66707901	0,039971509	FALSE	30,7%	388,1590163	56,45330739	0,052886767	FALSE	36,4%
435	3	1067,437295	Empty	544,6074817	397,1768301	19,08579757	0,017880018	FALSE	396,4962825	0,065737598	396,4962825	435,108508	42,66707901	0,039971509	FALSE	40,8%	388,1590163	56,45330739	0,052886767	FALSE	36,4%
436	1	1348,268378	Empty	633,0166533	473,3061308	159,7177789	0,118461414	FALSE	486,1420827	0,121168669	486,1420827	407,166429	225,8574807	0,167516708	FALSE	30,2%	337,0670945	295,9568152	0,219508831	FALSE	25,0%
436	2	1348,268378	Empty	643,1697088	475,6564637	159,7177789	0,118461414	FALSE	480,6896931	0,121168669	480,6896931	413,6970366	225,8574807	0,167516708	FALSE	30,7%	498,2730962	295,9568152	0,219508831	FALSE	37,0%
436	3	1348,268378	Empty	589,7214391	399,3057835	159,7177789	0,118461414	FALSE	381,4366022	0,121168669	381,4366022	527,4049124	225,8574807	0,167516708	FALSE	39,1%	512,9281873	295,9568152	0,219508831	FALSE	38,0%
437	1	1403,885318	Empty	527,2625843	388,9351724	96,33424966	0,068619743	FALSE	389,7126586	0,063607201	389,7126586	384,9063785	113,7467551	0,081022825	FALSE	27,4%	430,7375407	120,8005629	0,086047316	FALSE	30,7%
437	2	1403,885318	Empty	623,2635426	479,9800803	96,33424966	0,068619743	FALSE	475,801516	0,063607201	475,801516	454,9879323	113,7467551	0,081022825	FALSE	32,4%	462,6440252	120,8005629	0,086047316	FALSE	33,0%
437	3	1403,885318	Empty	670,6738851	534,9700653	96,33424966	0,068619743	FALSE	538,3711435	0,063607201	538,3711435	563,9910072	113,7467551	0,081022825	FALSE	40,2%	510,503752	120,8005629	0,086047316	FALSE	36,4%
438	1	1462,42029	Empty	651,1583273	504,3509874	126,9721127	0,086823271	FALSE	501,1192399	0,045449072	501,1192399	429,0088559	213,5174542	0,146002798	FALSE	29,3%	431,0291381	193,1888689	0,132102153	FALSE	29,5%
438	2	1462,42029	Empty	663,1706131	523,4683663	126,9721127	0,086823271	FALSE	527,3417118	0,045449072	527,3417118	436,9230247	213,5174542	0,146002798	FALSE	29,9%	584,968116	193,1888689	0,132102153	FALSE	40,0%
438	3	1462,42029	Empty	578,8181266	434,6009363	126,9721127	0,086823271	FALSE	433,9593383	0,045449072	433,9593383	596,4884094	213,5174542	0,146002798	FALSE	40,8%	446,4230359	193,1888689	0,132102153	FALSE	30,5%
439	1	1871,577784	Empty	797,0083271	622,8188735	143,6769757	0,076767836	FALSE	627,0147977	0,030916589	627,0147977	569,0235874	190,5770078	0,101826924	FALSE	30,4%	653,9247677	294,1664426	0,157175644	FALSE	34,9%
439	2	1871,577784	Empty	743,1045037	575,8103041	143,6769757	0,076767836	FALSE	586,9014824	0,030916589	586,9014824	530,538987	190,5770078	0,101826924	FALSE	28,3%	721,5721575	294,1664426	0,157175644	FALSE	38,6%
439	3	1871,577784	Empty	866,6210862	672,9486059	143,6769757	0,076767836	FALSE	657,6615034	0,030916589	657,6615034	772,0152092	190,5770078	0,101826924	FALSE	41,2%	496,0808583	294,1664426	0,157175644	FALSE	26,5%
440	1	1299,082911	Non-Empty	625,9097993	425,2038829	0	0	TRUE	409,3162437	0	437,5010114	384,7770226	0	0	TRUE	29,6%	476,3304008	0	0	TRUE	36,7%
440	2	1299,082911	Non-Empty	837,9781338	467,7126236	0	0	TRUE	472,2653905	0	449,1793358	395,1842858	0	0	TRUE	30,4%	447,4618917	0	0	TRUE	34,4%
440	3	1299,082911	Non-Empty	769,6498096	406,1664048	0	0	TRUE	417,5012772	0	412,5534741	519,1216029	0	0	TRUE	40,0%	375,2906188	0	0	TRUE	28,9%
441	1	950,4799432	Empty	468,2255661	350,0351367	68,61914126	0,072194202	FALSE	350,0351367	0,052328259	350,0351367	290,9801307	127,6741473	0,134325977	FALSE	30,6%	382,3769886	119,7547544	0,125993984	FALSE	40,2%
441	2	950,4799432	Empty	448,9984864	330,808057	68,61914126	0,072194202	FALSE	330,808057	0,052328259	330,808057	279,0314065	127,6741473	0,134325977	FALSE	29,4%	349,6018182	119,7547544	0,125993984	FALSE	36,8%
441	3	950,4799432	Empty	387,8271788	269,6367495	68,61914126	0,072194202	FALSE	269,6367495	0,052328259	269,6367495	380,468406	127,6741473	0,134325977	FALSE	40,0%	218,5011364	119,7547544	0,125993984	FALSE	23,0%
442	1	767,1858021	Non-Empty	507,4364472	277,7542235	0	0	TRUE	293,4932502	0	258,9365482	223,0201299	0	0	TRUE	29,1%	265,9577447	0	0	TRUE	34,7%
442	2	767,1858021	Non-Empty	544,1988231	267,2845062	0	0	TRUE	235,7914398	0	277,6957894	239,1773254	0	0	TRUE	31,2%	214,8120246	0	0	TRUE	28,0%
442	3	767,1858021	Non-Empty	451,8142831	222,1470724	0	0	TRUE	237,9011121	0	230,5534645	304,9883468	0	0	TRUE	39,8%	286,4160328	0	0	TRUE	37,3%
443	1	1506,526257	Non-Empty	877,4257324	494,4270903	0	0	TRUE	490,0198658	0	500,2704648	449,7512558	0	0	TRUE	29,9%	469,9256214	0	0	TRUE	31,2%
443	2	1506,526257	Non-Empty	877,8726415	495,8483975	0	0	TRUE	492,4155712	0	500,5252732	449,9803327	0	0	TRUE	29,9%	525,2109886	0	0	TRUE	34,9%
443	3	1506,526257	Non-Empty	887,0021359	516,250769	0	0	TRUE	524,0908198	0	505,7305188	606,7946683	0	0	TRUE	40,3%	511,3896468	0	0	TRUE	33,9%
444	1	1246,29394	Non-Empty	797,1479173	450,0284993	0	0	TRUE	461,0363519	0	428,0997111	371,3061203	0	0	TRUE	29,8%	357,9780466	0	0	TRUE	28,7%
444	2	1246,29394	Non-Empty	806,0948081	434,5497833	0	0	TRUE	421,132029	0	432,9045425	375,4735217	0	0	TRUE	30,1%	464,045616	0	0	TRUE	37,2%
444	3	1246,29394	Non-Empty	717,4330262	361,7156575	0	0	TRUE	364,1255593	0	385,2896866	499,5142981	0	0	TRUE	40,1%	424,2702775	0	0	TRUE	34,0%
445	1	977,2133824	Non-Empty	729,3539648	304,1908717	0	0	TRUE	318,4409564	0	310,4983988	293,0953101	0	0	TRUE	30,0%	360,025983	0	0	TRUE	36,8%
445	2	977,2133824	Non-Empty	767,2689779	330,6444716	0	0	TRUE	333,4331431	0	326,6394654	308,3316878	0	0	TRUE	31,6%	321,4517705	0	0	TRUE	32,9%
445	3	977,2133824	Non-Empty	798,8299729	342,3780391	0	0	TRUE	325,339283	0	340,0755182	375,7863845	0	0	TRUE	38,5%	295,7356289	0	0	TRUE	30,3%
446	1	924,3499292	Non-Empty	680,4964996	318,2333235	0	0	TRUE	317,9359542	0	312,905221	290,2593973	0	0	TRUE	31,4%	325,6232705	0	0	TRUE	35,2%
446	2	924,3499292	Non-Empty	689,0750326	321,720753	0	0	TRUE	316,3322801	0	316,8497935	293,9184901	0	0	TRUE	31,8%	325,6232705	0	0	TRUE	35,2%
446	3	924,3499292	Non-Empty	640,6758175	284,3958527	0	0	TRUE	290,0816948	0	294,5949147	340,1720417	0	0	TRUE	36,8%	273,1033882	0	0	TRUE	29,5%
447	1	1624,656471	Empty	664,9028163	526,6877526	89,09107759	0,054836871	FALSE	522,7675518	0,052196324	522,7675518	477,0553005	126,9629272	0,078147553	FALSE	29,4%	541,5521571	133,6705335	0,082276183	FALSE	33,3%
447	2	1624,656471	Empty	650,0521694	511,8371057	89,09107759	0,054836871	FALSE	507,9169049	0,052196324	507,9169049	466,4002399	126,9629272	0,078147553	FALSE	28,7%	541,5521571	133,6705335	0,082276183	FALSE	33,3%
447	3	1624,656471	Empty	712,5860743	586,1316131	89,09107759	0,054836871	FALSE	593,9720147	0,052196324	593,9720147	681,2009311	126,9629272	0,078147553	FALSE	41,9%	541,5521571	133,6705335	0,082276183	FALSE	33,3%
448	1	739,9883456	Non-Empty	536,1824541	264,5666782	0	0	TRUE	258,7727937	0	258,0687046	214,6604897	0	0	TRUE	29,0%	259,9959052	0	0	TRUE	35,1%
448	2	739,9883456	Non-Empty	579,559972	309,7514296	0	0	TRUE	305,7647785	0	278,9466348	232,0266664	0	0	TRUE	31,4%	259,9959052	0	0	TRUE	35,1%
448	3	739,9883456	Non-Empty	421,7115932	165,6702377	0	0	TRUE	175,4507734	0	202,9730062	293,3011894	0	0	TRUE	39,6%	219,9965352	0	0	TRUE	29,7%
449	1	1609,560901	Empty	765,8956447	641,2260396	124,6696051	0,077455662	FALSE	655,5564344	0,109875528	655,5564344	502,7558807	263,139764	0,163485435	FALSE	31,2%	592,9961215	172,8995233	0,107420305	FALSE	36,8%
449	2	1609,560901	Empty	653,4050441	500,9418395	124,6696051	0,077455662	FALSE	487,478635	0,109875528	487,478635	428,9138223	263,139764	0,163485435	FALSE	26,6%	592,9961215	172,8995233	0,107420305	FALSE	36,8%
449	3	1609,560901	Empty	607,2602123	467,393022	124,6696051	0,077455662	FALSE	466,5258317	0,109875528	466,5258317	677,8911981	263,139764	0,163485435	FALSE	42,1%	423,5686582	172,8995233	0,107420305	FALSE	26,3%
450	1	981,3836621	Non-Empty	714,6867132	337,1907282	0	0	TRUE	355,7602088	0	323,2800103	301,3366841	0	0	TRUE	30,7%	348,9364132	0	0	TRUE	35,6%
450	2	981,3836621	Non-Empty	738,8067306	338,3980541	0	0	TRUE	334,0548433	0	334,1904125	311,5065193	0	0	TRUE	31,7%	348,9364132	0	0	TRUE	35,6%
450	3	981,3836621	Non-Empty	716,0866152	305,7948798	0	0	TRUE	291,5686099	0	323,9132393	368,5404587	0	0	TRUE	37,6%	283,5108357	0	0	TRUE	28,9%
451	1	1065,04584	Non-Empty	798,4072681	398,2850932	0	0	TRUE	398,2305876	0	375,3849563	336,7307578	0								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
466	1	1313,26677	Non-Empty	770,9389991	413,5857212	0	0	TRUE	411,2950845	0	425,6749443	390,6205706	0	0	TRUE	29,7%	386,2549323	0	0	TRUE	29,4%
466	2	1313,26677	Non-Empty	808,9772568	435,3262377	0	0	TRUE	416,7378599	0	446,6778164	409,8938542	0	0	TRUE	31,2%	386,2549323	0	0	TRUE	29,4%
466	3	1313,26677	Non-Empty	798,5384378	464,3548111	0	0	TRUE	485,2338255	0	440,9140093	512,7523452	0	0	TRUE	39,0%	540,7569053	0	0	TRUE	41,2%
467	1	1727,123324	Empty	806,3789097	576,2874855	135,9976763	0,078742308	FALSE	551,9600149	0,120912167	551,9600149	541,6666959	147,0845675	0,085161589	FALSE	31,4%	463,3745504	196,7317136	0,11390716	FALSE	26,8%
467	2	1727,123324	Empty	766,8933631	557,6054528	135,9976763	0,078742308	FALSE	554,0814962	0,120912167	554,0814962	515,1431779	147,0845675	0,085161589	FALSE	29,8%	631,874387	196,7317136	0,11390716	FALSE	36,6%
467	3	1727,123324	Empty	771,1429125	593,230386	135,9976763	0,078742308	FALSE	621,0818132	0,120912167	621,0818132	670,3134506	147,0845675	0,085161589	FALSE	38,8%	631,874387	196,7317136	0,11390716	FALSE	36,6%
468	1	824,8182629	Non-Empty	436,0336051	280,1454828	0	0	TRUE	279,1020858	0	278,9372943	239,17251	0	0	TRUE	29,0%	244,7262978	0	0	TRUE	29,7%
468	2	824,8182629	Non-Empty	419,6714795	269,5158314	0	0	TRUE	274,2049088	0	268,4701949	230,197581	0	0	TRUE	27,9%	326,3017304	0	0	TRUE	39,6%
468	3	824,8182629	Non-Empty	433,6473545	275,1569487	0	0	TRUE	271,5112683	0	277,4107736	355,4481719	0	0	TRUE	43,1%	253,7902347	0	0	TRUE	30,8%
469	1	1780,772078	Empty	809,2869334	611,5372976	172,6514027	0,096953116	FALSE	613,1802414	0,017649495	613,1802414	537,0667855	243,4126409	0,136689385	FALSE	30,2%	505,9011585	274,5782679	0,154190573	FALSE	28,4%
469	2	1780,772078	Empty	820,7986695	614,4109286	172,6514027	0,096953116	FALSE	607,4157673	0,017649495	607,4157673	544,7063146	243,4126409	0,136689385	FALSE	30,6%	647,5534829	274,5782679	0,154190573	FALSE	36,4%
469	3	1780,772078	Empty	748,8642136	554,8238517	172,6514027	0,096953116	FALSE	560,1760693	0,017649495	560,1760693	698,9989778	243,4126409	0,136689385	FALSE	39,3%	627,3174365	274,5782679	0,154190573	FALSE	35,2%
470	1	1234,791242	Empty	505,9142295	361,3135327	125,5165172	0,10164999	FALSE	374,1560567	0,02443127	374,1560567	346,0012784	140,8287715	0,114050672	FALSE	28,0%	361,7065255	158,8562775	0,128650311	FALSE	29,3%
470	2	1234,791242	Empty	605,249827	440,3203469	125,5165172	0,10164999	FALSE	432,8340876	0,02443127	432,8340876	413,938177	140,8287715	0,114050672	FALSE	33,5%	386,6518031	158,8562775	0,128650311	FALSE	31,3%
470	3	1234,791242	Empty	595,9568484	433,1573628	125,5165172	0,10164999	FALSE	427,801098	0,02443127	427,801098	474,8517869	140,8287715	0,114050672	FALSE	38,5%	486,4329136	158,8562775	0,128650311	FALSE	39,4%
471	1	1041,344491	Non-Empty	544,9418934	319,9602293	0	0	TRUE	311,7959468	0	335,4257992	314,2449664	0	0	TRUE	30,2%	347,1148304	0	0	TRUE	33,3%
471	2	1041,344491	Non-Empty	541,2689963	316,8066399	0	0	TRUE	309,1616651	0	333,1650362	312,1269618	0	0	TRUE	30,0%	289,2623586	0	0	TRUE	27,8%
471	3	1041,344491	Non-Empty	605,5857464	404,577622	0	0	TRUE	420,3868792	0	372,7536558	414,9725629	0	0	TRUE	39,8%	404,9673021	0	0	TRUE	38,9%
472	1	1829,850841	Empty	757,9532866	628,618463	145,3303527	0,079421967	FALSE	637,8942903	0,041154334	637,8942903	534,6559829	239,2928328	0,13077177	FALSE	29,2%	545,4363083	228,5125074	0,124880401	FALSE	29,8%
472	2	1829,850841	Empty	741,0877108	597,8391462	145,3303527	0,079421967	FALSE	593,2012325	0,041154334	593,2012325	522,7591007	239,2928328	0,13077177	FALSE	28,6%	686,1940653	228,5125074	0,124880401	FALSE	37,5%
472	3	1829,850841	Empty	746,6417963	603,3932316	145,3303527	0,079421967	FALSE	598,7553179	0,041154334	598,7553179	772,4357571	239,2928328	0,13077177	FALSE	42,2%	598,2204672	228,5125074	0,124880401	FALSE	32,7%
473	1	1172,367149	Non-Empty	601,4350754	345,3639365	0	0	TRUE	352,7885098	0	359,2231629	316,35305	0	0	TRUE	27,0%	420,5229991	0	0	TRUE	35,9%
473	2	1172,367149	Non-Empty	703,4887064	349,387416	0	0	TRUE	438,7818377	0	420,1774198	370,0329545	0	0	TRUE	31,6%	458,7523627	0	0	TRUE	39,1%
473	3	1172,367149	Non-Empty	657,9305037	387,6157966	0	0	TRUE	380,7968016	0	392,9665664	485,9811446	0	0	TRUE	41,5%	293,0917873	0	0	TRUE	25,0%
474	1	1774,828222	Empty	777,1459917	593,9739594	151,4648369	0,085340561	FALSE	609,7883673	0,068158585	609,7883673	527,7611243	217,677672	0,122647178	FALSE	29,7%	565,6045983	179,834198	0,101324847	FALSE	31,9%
474	2	1774,828222	Empty	793,6011099	581,6119165	151,4648369	0,085340561	FALSE	568,6091633	0,068158585	568,6091633	538,9358222	217,677672	0,122647178	FALSE	30,4%	604,611812	179,834198	0,101324847	FALSE	34,1%
474	3	1774,828222	Empty	801,0404415	599,2423466	151,4648369	0,085340561	FALSE	596,4306918	0,068158585	596,4306918	708,1312759	217,677672	0,122647178	FALSE	39,9%	604,611812	179,834198	0,101324847	FALSE	34,1%
475	1	1617,213	Empty	738,777055	530,822791	151,2728542	0,093539227	FALSE	544,1210301	0,055115187	544,1210301	489,0549447	193,0407005	0,11936628	FALSE	30,2%	579,755604	183,5696426	0,113509873	FALSE	35,8%
475	2	1617,213	Empty	758,792027	538,4106107	151,2728542	0,093539227	FALSE	539,2816975	0,055115187	539,2816975	502,3044371	193,0407005	0,11936628	FALSE	31,1%	549,2421511	183,5696426	0,113509873	FALSE	34,0%
475	3	1617,213	Empty	783,4014277	547,9795988	151,2728542	0,093539227	FALSE	533,8102729	0,055115187	533,8102729	625,8536187	193,0407005	0,11936628	FALSE	38,7%	488,2152454	183,5696426	0,113509873	FALSE	30,2%
476	1	1648,097076	Empty	839,4811926	589,1447472	193,6933447	0,117525446	FALSE	573,4252277	0,040606001	573,4252277	565,607711	208,0101008	0,126212287	FALSE	34,3%	407,1769246	339,3237191	0,205888187	FALSE	24,7%
476	2	1648,097076	Empty	699,8369458	485,8379485	193,6933447	0,117525446	FALSE	506,4558773	0,040606001	506,4558773	471,5211924	208,0101008	0,126212287	FALSE	28,6%	581,6813209	339,3237191	0,205888187	FALSE	35,3%
476	3	1648,097076	Empty	812,6297153	573,1143801	193,6933447	0,117525446	FALSE	568,2159708	0,040606001	568,2159708	610,9681725	208,0101008	0,126212287	FALSE	37,1%	659,2388303	339,3237191	0,205888187	FALSE	40,0%
477	1	1036,503557	Non-Empty	763,9299765	362,7703058	0	0	TRUE	356,5319742	0	356,4703988	319,1722533	0	0	TRUE	30,8%	355,3726481	0	0	TRUE	34,3%
477	2	1036,503557	Non-Empty	723,1197018	339,6924636	0	0	TRUE	351,1865645	0	337,4272203	302,1215802	0	0	TRUE	29,1%	296,1438734	0	0	TRUE	28,6%
477	3	1036,503557	Non-Empty	734,2178958	334,0407875	0	0	TRUE	328,7850183	0	342,6059379	415,2097415	0	0	TRUE	40,1%	384,9870354	0	0	TRUE	37,1%
478	1	1393,138321	Empty	621,2244842	496,6948038	102,5183194	0,073588041	FALSE	493,9688059	0,043762495	493,9688059	421,6387009	171,2086931	0,122894253	FALSE	30,3%	400,1567517	188,8477776	0,135555655	FALSE	28,7%
478	2	1393,138321	Empty	569,6357628	455,3146763	102,5183194	0,073588041	FALSE	462,7972724	0,043762495	462,7972724	386,6243026	171,2086931	0,122894253	FALSE	27,8%	429,7979926	188,8477776	0,135555655	FALSE	30,9%
478	3	1393,138321	Empty	567,6891215	441,1288407	102,5183194	0,073588041	FALSE	436,3722425	0,043762495	436,3722425	584,8753174	171,2086931	0,122894253	FALSE	42,0%	563,1835765	188,8477776	0,135555655	FALSE	40,4%
479	1	1261,499717	Non-Empty	695,2177735	423,6578043	0	0	TRUE	416,760884	0	426,6707741	369,2114896	0	0	TRUE	29,3%	424,5431741	0	0	TRUE	33,7%
479	2	1261,499717	Non-Empty	687,419871	430,422376	0	0	TRUE	438,0879299	0	421,8850261	365,070233	0	0	TRUE	28,9%	376,0239542	0	0	TRUE	29,8%
479	3	1261,499717	Non-Empty	672,8512193	407,419537	0	0	TRUE	406,6509035	0	412,9439171	527,2179947	0	0	TRUE	41,8%	460,932589	0	0	TRUE	36,5%
480	1	1235,312681	Non-Empty	876,7991898	453,8802684	0	0	TRUE	428,4075658	0	446,1600977	398,1452728	0	0	TRUE	32,2%	407,525833	0	0	TRUE	33,0%
480	2	1235,312681	Non-Empty	806,2366195	410,2504891	0	0	TRUE	411,7105777	0	410,254267	366,1035532	0	0	TRUE	29,6%	420,2610153	0	0	TRUE	34,0%
480	3	1235,312681	Non-Empty	744,6155289	371,1819329	0	0	TRUE	395,1945378	0	378,8983167	471,0638554	0	0	TRUE	38,1%	407,525833	0	0	TRUE	33,0%
481	1	1582,159233	Empty	769,7544318	577,8993127	150,5522753	0,095156209	FALSE	570,920574	0,037930349	570,920574	516,9988142	195,9390148	0,123842791	FALSE	32,7%	570,8821975	244,6647097	0,154639751	FALSE	36,1%
481	2	1582,159233	Empty	672,4962296	486,0635678	150,5522753	0,095156209	FALSE	484,5072864	0,037930349	484,5072864	451,6761955	195,9390148	0,123842791	FALSE	28,5%	587,1931175	244,6647097	0,154639751	FALSE	37,1%
481	3	1582,159233	Empty	694,5377128	518,1963526	150,5522753	0,095156209	FALSE	526,7313728	0,037930349	526,7313728	613,4842234	195,9390148	0,123842791	FALSE	38,8%	424,0839182	244,6647097	0,15463		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
497	1	1091,619312	Non-Empty	510,2712347	340,515819	0	0	TRUE	335,8840422	0	350,9926679	312,8147991	0	0	TRUE	28,7%	372,1429474	0	0	TRUE	34,1%
497	2	1091,619312	Non-Empty	499,7316961	339,2068865	0	0	TRUE	343,8057158	0	343,7429926	306,3536791	0	0	TRUE	28,1%	347,3334175	0	0	TRUE	31,8%
497	3	1091,619312	Non-Empty	576,9872979	411,8966067	0	0	TRUE	411,9295543	0	396,8836518	472,450834	0	0	TRUE	43,3%	372,1429474	0	0	TRUE	34,1%
498	1	1905,332172	Empty	852,3788696	669,2990433	145,7940054	0,076518944	FALSE	681,17052	0,094350347	593,53365	681,17052	221,5593988	0,11628387	FALSE	31,2%	578,0221195	237,0709292	0,124424986	FALSE	30,3%
498	2	1905,332172	Empty	784,0479983	570,8430222	145,7940054	0,076518944	FALSE	552,589349	0,094350347	552,589349	545,9530812	221,5593988	0,11628387	FALSE	28,7%	599,4303462	237,0709292	0,124424986	FALSE	31,5%
498	3	1905,332172	Empty	853,7592127	665,1901062	145,7940054	0,076518944	FALSE	671,5723027	0,094350347	671,5723027	765,8454406	221,5593988	0,11628387	FALSE	40,2%	727,8797061	237,0709292	0,124424986	FALSE	38,2%
499	1	1428,535322	Non-Empty	832,9444014	430,577728	0	0	TRUE	432,6437665	0	450,4032967	412,6736977	0	0	TRUE	28,9%	462,1731924	0	0	TRUE	32,4%
499	2	1428,535322	Non-Empty	905,4718218	509,3019395	0	0	TRUE	517,5647692	0	489,6215076	448,6066587	0	0	TRUE	31,4%	462,1731924	0	0	TRUE	32,4%
499	3	1428,535322	Non-Empty	903,4172346	488,6556545	0	0	TRUE	478,3267863	0	488,5105177	567,2549656	0	0	TRUE	39,7%	504,1889372	0	0	TRUE	35,3%
500	1	971,4319823	Non-Empty	719,5844418	383,1716137	0	0	TRUE	374,3262286	0	357,717142	316,0075052	0	0	TRUE	32,5%	267,9812365	0	0	TRUE	27,6%
500	2	971,4319823	Non-Empty	616,987647	308,3543514	0	0	TRUE	327,2884989	0	306,7146048	270,9518379	0	0	TRUE	27,9%	312,6447759	0	0	TRUE	32,2%
500	3	971,4319823	Non-Empty	617,5622224	279,9060172	0	0	TRUE	269,8172549	0	307,0002356	384,4726392	0	0	TRUE	39,6%	390,8059699	0	0	TRUE	40,2%
501	1	1507,669171	Empty	745,1124579	522,7126512	94,14992303	0,062447336	FALSE	511,6272542	0,038616302	511,6272542	477,6221545	126,6899045	0,084030308	FALSE	31,7%	438,2759219	158,3652784	0,105039807	FALSE	29,1%
501	2	1507,669171	Empty	693,8614155	484,4964259	94,14992303	0,062447336	FALSE	486,445846	0,038616302	486,445846	444,7698876	126,6899045	0,084030308	FALSE	29,5%	560,9931801	158,3652784	0,105039807	FALSE	37,2%
501	3	1507,669171	Empty	702,638527	500,4600943	94,14992303	0,062447336	FALSE	509,5960712	0,038616302	509,5960712	585,2771293	126,6899045	0,084030308	FALSE	38,8%	508,4000694	158,3652784	0,105039807	FALSE	33,7%
502	1	1267,603357	Empty	592,4430081	452,3388828	68,02751652	0,053666248	FALSE	449,2236204	0,104544359	449,2236204	388,979262	111,3827606	0,08786878	FALSE	30,7%	422,5344524	77,82757026	0,061397416	FALSE	33,3%
502	2	1267,603357	Empty	552,3290851	401,5663702	68,02751652	0,053666248	FALSE	387,7925183	0,104544359	387,7925183	362,6417343	111,3827606	0,08786878	FALSE	28,6%	422,5344524	77,82757026	0,061397416	FALSE	33,3%
502	3	1267,603357	Empty	533,7978526	413,6980104	68,02751652	0,053666248	FALSE	430,5872184	0,104544359	430,5872184	515,9823608	111,3827606	0,08786878	FALSE	40,7%	422,5344524	77,82757026	0,061397416	FALSE	33,3%
503	1	969,4593866	Non-Empty	620,0358051	336,0509645	0	0	TRUE	342,515943	0	326,540984	289,6181966	0	0	TRUE	29,9%	286,7415087	0	0	TRUE	29,6%
503	2	969,4593866	Non-Empty	589,2985583	305,2671885	0	0	TRUE	311,6856378	0	310,3532562	275,2608548	0	0	TRUE	28,4%	300,3958663	0	0	TRUE	31,0%
503	3	969,4593866	Non-Empty	631,4744806	328,1412337	0	0	TRUE	315,2578058	0	332,5651464	404,5803352	0	0	TRUE	41,7%	382,3220116	0	0	TRUE	39,4%
504	1	1255,467305	Empty	583,2937447	408,9536541	145,6182028	0,115987252	FALSE	399,3796914	0,096221391	399,3796914	395,6954179	132,0529064	0,105182274	FALSE	31,5%	458,9880469	194,2612562	0,15473223	FALSE	36,6%
504	2	1255,467305	Empty	589,1962428	414,8561521	145,6182028	0,115987252	FALSE	405,2821895	0,096221391	405,2821895	399,699567	132,0529064	0,105182274	FALSE	31,8%	337,4912109	194,2612562	0,15473223	FALSE	26,9%
504	3	1255,467305	Empty	577,2757014	431,6574985	145,6182028	0,115987252	FALSE	450,8054237	0,096221391	450,8054237	460,0723261	132,0529064	0,105182274	FALSE	36,6%	458,9880469	194,2612562	0,15473223	FALSE	36,6%
505	1	1106,083963	Non-Empty	778,8447406	378,0366743	0	0	TRUE	389,767217	0	367,5674167	341,6858644	0	0	TRUE	30,9%	403,3953278	0	0	TRUE	36,5%
505	2	1106,083963	Non-Empty	798,0922641	365,5947236	0	0	TRUE	345,6357922	0	376,6510789	350,1299179	0	0	TRUE	31,7%	338,3315653	0	0	TRUE	30,6%
505	3	1106,083963	Non-Empty	766,7627859	362,4525655	0	0	TRUE	370,6809542	0	361,8654679	414,2681812	0	0	TRUE	37,5%	364,3570703	0	0	TRUE	32,9%
506	1	1137,735415	Non-Empty	752,7068764	377,0703236	0	0	TRUE	376,7833134	0	378,2963631	359,2931748	0	0	TRUE	31,6%	318,0765676	0	0	TRUE	28,0%
506	2	1137,735415	Non-Empty	738,6276927	354,5192617	0	0	TRUE	345,7603734	0	371,2204294	352,5726907	0	0	TRUE	31,0%	415,9462807	0	0	TRUE	36,6%
506	3	1137,735415	Non-Empty	772,4494737	406,1458296	0	0	TRUE	415,1917282	0	388,2186224	425,8695495	0	0	TRUE	37,4%	403,7125666	0	0	TRUE	35,5%
507	1	1489,55302	Non-Empty	935,2390875	536,1411913	0	0	TRUE	530,8425093	0	521,570176	461,868592	0	0	TRUE	31,0%	535,569625	0	0	TRUE	36,0%
507	2	1489,55302	Non-Empty	845,2995759	468,3741561	0	0	TRUE	485,2479505	0	471,4121281	417,4518903	0	0	TRUE	28,0%	552,3061758	0	0	TRUE	37,1%
507	3	1489,55302	Non-Empty	890,4119987	485,0376721	0	0	TRUE	473,4625597	0	496,5707155	610,2325373	0	0	TRUE	41,0%	401,6772188	0	0	TRUE	27,0%
508	1	1284,828458	Non-Empty	745,3576429	426,7738943	0	0	TRUE	390,1832066	0	449,4336761	391,6301812	0	0	TRUE	30,5%	506,1445441	0	0	TRUE	39,4%
508	2	1284,828458	Non-Empty	746,2187652	419,568567	0	0	TRUE	419,6880091	0	449,9529132	392,082637	0	0	TRUE	30,5%	402,3200223	0	0	TRUE	31,3%
508	3	1284,828458	Non-Empty	639,2312329	416,0977073	0	0	TRUE	474,9572425	0	385,4418689	501,11564	0	0	TRUE	39,0%	376,3638918	0	0	TRUE	29,3%
509	1	1192,521984	Empty	652,0783937	448,6801003	85,42920604	0,071637427	FALSE	442,5348346	0,072393247	442,5348346	400,0370442	114,4273564	0,095954085	FALSE	33,5%	416,8038004	97,89004827	0,082086577	FALSE	35,0%
509	2	1192,521984	Empty	539,2175774	359,7973425	85,42920604	0,071637427	FALSE	377,6301354	0,072393247	377,6301354	330,7991921	114,4273564	0,095954085	FALSE	27,7%	347,3365003	97,89004827	0,082086577	FALSE	29,1%
509	3	1192,521984	Empty	592,9850965	384,0445416	85,42920604	0,071637427	FALSE	372,3570144	0,072393247	372,3570144	461,6857481	114,4273564	0,095954085	FALSE	38,7%	428,3816837	97,89004827	0,082086577	FALSE	35,9%
510	1	1149,766375	Non-Empty	612,6856168	385,5386316	0	0	TRUE	353,9800767	0	405,6622373	346,6458243	15,3368153	0,013339071	FALSE	30,1%	425,4135588	0	0	TRUE	37,0%
510	2	1149,766375	Non-Empty	571,4023774	396,0902957	0	0	TRUE	416,3666443	0	378,3283962	323,2885557	15,3368153	0,013339071	FALSE	28,1%	390,9205675	0	0	TRUE	34,0%
510	3	1149,766375	Non-Empty	552,4436718	368,1374478	0	0	TRUE	379,4196541	0	365,7757416	479,8319951	15,3368153	0,013339071	FALSE	41,7%	333,4322488	0	0	TRUE	29,0%
511	1	1329,586646	Non-Empty	930,5461039	421,0063058	0	0	TRUE	399,509205	0	442,8661439	401,9874678	0	0	TRUE	30,2%	365,6363275	0	0	TRUE	27,5%
511	2	1329,586646	Non-Empty	929,3287141	452,066111	0	0	TRUE	462,8462052	0	442,2867629	401,4615665	0	0	TRUE	30,2%	565,0743244	0	0	TRUE	42,5%
511	3	1329,586646	Non-Empty	933,8399194	456,5142288	0	0	TRUE	467,2312354	0	444,4337388	526,1376113	0	0	TRUE	39,6%	398,8759937	0	0	TRUE	30,0%
512	1	1140,616475	Non-Empty	815,8501583	355,2934742	0	0	TRUE	377,2224531	0	359,5617144	334,1662767	0	0	TRUE	29,3%	370,3300244	0	0	TRUE	32,5%
512	2	1140,616475	Non-Empty	880,1220517	384,8339714	0	0	TRUE	372,031554	0	387,8876417	360,4915757	0	0	TRUE	31,6%	444,3960293	0	0	TRUE	39,0%
512	3	1140,616475	Non-Empty	892,1012542	400,4890297	0	0	TRUE	391,3624681	0	393,1671192	445,9586229	0	0	TRUE	39,1%	325,8904215	0	0	TRUE	28,6%
513	1	905,868421	Non-Empty	566,4059288	288,3743008	0	0	TRUE	289,5444244	0	294,291363	260,9566408	0	0	TRUE	28,8%	284,9923122	0	0	TRUE	31,5%
513	2	905,868421	Non-Empty	623,1392876	343,7499182	0	0	TRUE	343,5623004	0	323,7686983	287,0950443	0	0	TRUE	31,7%	284,9923122	0	0	TRUE	31,5%
513	3	905,868421	Non-Empty	553,9284595	273,744202	0	0	TRUE	272,7616962	0	287,8083598	357,816736	0	0	TRUE	39,5%	335,8837966	0	0	TRUE	37,1%
514	1	1545,546601	Empty	703,2071405	522,1480845																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
528	1	937,6686324	Non-Empty	544,4527659	353,5084119	0	0	TRUE	338,1080098	0	348,641747	292,0210784	0,971517307	0,001036099	FALSE	31,1%	370,7062035	0	0	TRUE	39,5%
528	2	937,6686324	Non-Empty	452,5456304	302,7029337	0	0	TRUE	328,4041891	0	289,7887733	242,7260385	0,971517307	0,001036099	FALSE	25,9%	250,7718435	0	0	TRUE	26,7%
528	3	937,6686324	Non-Empty	467,302092	281,4572868	0	0	TRUE	271,1564335	0	299,238112	402,9215154	0,971517307	0,001036099	FALSE	43,0%	316,1905853	0	0	TRUE	33,7%
529	1	1376,58425	Empty	603,7339963	485,232067	79,92947635	0,058063628	FALSE	469,092947	0,102563611	469,092947	394,1704579	196,5883565	0,142808808	FALSE	28,6%	437,2679384	95,80713923	0,06959773	FALSE	31,8%
529	2	1376,58425	Empty	585,0392006	498,6237371	79,92947635	0,058063628	FALSE	514,5710829	0,102563611	514,5710829	381,964857	196,5883565	0,142808808	FALSE	27,7%	485,8532649	95,80713923	0,06959773	FALSE	35,3%
529	3	1376,58425	Empty	494,8994814	392,7284463	79,92947635	0,058063628	FALSE	392,9202204	0,102563611	392,9202204	600,4489355	196,5883565	0,142808808	FALSE	43,6%	453,4630472	95,80713923	0,06959773	FALSE	32,9%
530	1	899,8118585	Non-Empty	515,164833	300,6267013	0	0	TRUE	284,7250128	0	309,9183388	257,552541	0	0	TRUE	28,6%	283,0868768	0	0	TRUE	31,5%
530	2	899,8118585	Non-Empty	536,1943853	335,4183357	0	0	TRUE	333,2787292	0	322,5695205	268,0660976	0	0	TRUE	29,8%	283,0868768	0	0	TRUE	31,5%
530	3	899,8118585	Non-Empty	444,3619696	263,7668215	0	0	TRUE	281,8081166	0	267,3239993	374,19322	0	0	TRUE	41,6%	333,6381049	0	0	TRUE	37,1%
531	1	1297,362924	Empty	540,8578324	423,3968429	66,72160092	0,051428632	FALSE	412,9843514	0,083042234	412,9843514	357,275934	165,1080973	0,127264387	FALSE	27,5%	432,4543081	114,5906021	0,088325788	FALSE	33,3%
531	2	1297,362924	Empty	578,1904045	480,3233093	66,72160092	0,051428632	FALSE	489,5047122	0,083042234	489,5047122	381,936813	165,1080973	0,127264387	FALSE	29,4%	432,4543081	114,5906021	0,088325788	FALSE	33,3%
531	3	1297,362924	Empty	499,4601818	393,6427722	66,72160092	0,051428632	FALSE	394,8738607	0,083042234	394,8738607	558,1501775	165,1080973	0,127264387	FALSE	43,0%	432,4543081	114,5906021	0,088325788	FALSE	33,3%
532	1	910,7290492	Non-Empty	529,7555254	297,8781586	0	0	TRUE	305,8546866	0	295,9372435	268,1697007	0	0	TRUE	29,4%	272,1718997	0	0	TRUE	29,9%
532	2	910,7290492	Non-Empty	561,574641	303,2258267	0	0	TRUE	284,7309074	0	313,7123509	284,2769847	0	0	TRUE	31,2%	251,2355998	0	0	TRUE	27,6%
532	3	910,7290492	Non-Empty	538,9605675	309,6250639	0	0	TRUE	320,1434551	0	301,0794547	358,2823638	0	0	TRUE	39,3%	387,3215496	0	0	TRUE	42,5%
533	1	799,3438742	Non-Empty	696,2102066	283,594507	0	0	TRUE	270,1960212	0	278,477649	272,9490502	0	0	TRUE	34,1%	241,6621015	0	0	TRUE	30,2%
533	2	799,3438742	Non-Empty	609,0228198	233,4047828	0	0	TRUE	257,4740723	0	243,6035	238,7672554	0	0	TRUE	29,9%	269,5461901	0	0	TRUE	33,7%
533	3	799,3438742	Non-Empty	693,1728269	282,5796406	0	0	TRUE	271,6737807	0	277,2627252	287,6275686	0	0	TRUE	36,0%	288,1355826	0	0	TRUE	36,0%
534	1	961,3211229	Non-Empty	631,3740031	366,092259	0	0	TRUE	384,0942881	0	335,1161664	279,5413421	0	0	TRUE	29,1%	389,3958979	0	0	TRUE	40,5%
534	2	961,3211229	Non-Empty	613,7492556	321,464468	0	0	TRUE	312,4634535	0	325,7614294	271,7379712	0	0	TRUE	28,3%	316,384167	0	0	TRUE	32,9%
534	3	961,3211229	Non-Empty	566,0491835	273,7643958	0	0	TRUE	264,7633813	0	300,4435271	410,0418095	0	0	TRUE	42,7%	255,541058	0	0	TRUE	26,6%
535	1	946,3404587	Non-Empty	582,9217274	305,5782204	0	0	TRUE	291,9176563	0	317,5122691	298,3545328	0	0	TRUE	31,5%	272,0728819	0	0	TRUE	28,8%
535	2	946,3404587	Non-Empty	543,0896408	296,5005124	0	0	TRUE	313,5943268	0	295,8160866	277,9674327	0	0	TRUE	29,4%	366,7069278	0	0	TRUE	38,8%
535	3	946,3404587	Non-Empty	611,3779191	344,261726	0	0	TRUE	340,8284756	0	333,0121031	370,0184932	0	0	TRUE	39,1%	307,5606491	0	0	TRUE	32,5%
536	1	894,9099621	Non-Empty	569,9588893	308,2567638	0	0	TRUE	316,0993528	0	299,4121998	266,143582	0	0	TRUE	29,7%	314,1705186	0	0	TRUE	35,1%
536	2	894,9099621	Non-Empty	586,6038861	313,1378772	0	0	TRUE	309,2165828	0	308,1561903	273,9160006	0	0	TRUE	30,6%	323,6908374	0	0	TRUE	36,2%
536	3	894,9099621	Non-Empty	546,9813299	273,515321	0	0	TRUE	269,5940266	0	287,341572	354,8503796	0	0	TRUE	39,7%	257,0486061	0	0	TRUE	28,7%
537	1	2020,547683	Empty	939,1692343	687,3393531	188,6527994	0,09336716	FALSE	672,36876	0,088367211	672,36876	621,1887796	281,7736157	0,139454079	FALSE	30,7%	687,40282	277,0357396	0,137109231	FALSE	34,0%
537	2	2020,547683	Empty	892,9247947	683,722428	188,6527994	0,09336716	FALSE	711,3793494	0,088367211	711,3793494	590,6016118	281,7736157	0,139454079	FALSE	29,2%	812,3851509	277,0357396	0,137109231	FALSE	40,2%
537	3	2020,547683	Empty	899,0315182	649,485902	188,6527994	0,09336716	FALSE	636,7995737	0,088367211	636,7995737	808,7572917	281,7736157	0,139454079	FALSE	40,0%	520,7597121	277,0357396	0,137109231	FALSE	25,8%
538	1	1648,648594	Empty	742,1807702	548,6032001	93,69198613	0,056829567	FALSE	537,9584963	0,059124188	537,9584963	499,4784348	155,3468178	0,094226761	FALSE	30,3%	602,7317442	164,9936458	0,100078116	FALSE	36,6%
538	2	1648,648594	Empty	699,209551	532,2141699	93,69198613	0,056829567	FALSE	548,1516552	0,059124188	548,1516552	470,5593382	155,3468178	0,094226761	FALSE	28,5%	460,9125102	164,9936458	0,100078116	FALSE	28,0%
538	3	1648,648594	Empty	756,0568721	567,8312243	93,69198613	0,056829567	FALSE	562,5384428	0,059124188	562,5384428	678,6108213	155,3468178	0,094226761	FALSE	41,2%	585,0043399	164,9936458	0,100078116	FALSE	35,5%
539	1	1103,176	Non-Empty	633,5701984	351,8305468	0	0	TRUE	358,9179974	0	354,8533214	316,302064	0	0	TRUE	28,7%	453,5279113	0	0	TRUE	41,1%
539	2	1103,176	Non-Empty	682,0311513	390,7884948	0	0	TRUE	388,3729404	0	381,9955862	340,4955937	0	0	TRUE	30,9%	294,1802668	0	0	TRUE	26,7%
539	3	1103,176	Non-Empty	654,0559571	360,5569587	0	0	TRUE	355,8850625	0	366,3270927	446,3783427	0	0	TRUE	40,5%	355,4678223	0	0	TRUE	32,2%
540	1	1616,598046	Empty	641,3376378	494,9156003	235,1310788	0,145448078	FALSE	511,9054945	0,053317385	511,9054945	477,0184179	253,0282612	0,15651897	FALSE	29,5%	516,6447364	310,8736309	0,19230113	FALSE	32,0%
540	2	1616,598046	Empty	709,7206633	537,4780094	235,1310788	0,145448078	FALSE	528,6472873	0,053317385	528,6472873	527,8808041	253,0282612	0,15651897	FALSE	32,7%	616,6404918	310,8736309	0,19230113	FALSE	38,1%
540	3	1616,598046	Empty	755,7755404	584,2044364	235,1310788	0,145448078	FALSE	576,0452643	0,053317385	576,0452643	611,6988242	253,0282612	0,15651897	FALSE	37,8%	483,3128179	310,8736309	0,19230113	FALSE	29,9%
541	1	1060,419974	Empty	463,4466645	356,9423689	116,337655	0,109709038	FALSE	349,9414355	0,043435133	349,9414355	347,0588224	124,186724	0,117110887	FALSE	32,7%	399,0827858	209,5993783	0,197656951	FALSE	37,6%
541	2	1060,419974	Empty	398,2311406	306,0702912	116,337655	0,109709038	FALSE	313,412804	0,043435133	313,412804	298,2212221	124,186724	0,117110887	FALSE	28,1%	364,8756899	209,5993783	0,197656951	FALSE	34,4%
541	3	1060,419974	Empty	497,2522554	397,4073136	116,337655	0,109709038	FALSE	397,0657342	0,043435133	397,0657342	415,1399292	124,186724	0,117110887	FALSE	39,1%	296,461498	209,5993783	0,197656951	FALSE	28,0%
542	1	1312,407057	Empty	550,4555751	385,8018273	154,7936265	0,117946353	FALSE	377,9450467	0,097702328	377,9450467	382,6075894	165,4107636	0,126036173	FALSE	29,2%	416,1290669	161,3624979	0,122951562	FALSE	31,7%
542	2	1312,407057	Empty	634,7921581	471,8973633	154,7936265	0,117946353	FALSE	465,7995359	0,097702328	465,7995359	441,2277908	165,4107636	0,126036173	FALSE	33,6%	448,1389951	161,3624979	0,122951562	FALSE	34,1%
542	3	1312,407057	Empty	597,5502258	454,7078665	154,7936265	0,117946353	FALSE	468,6624746	0,097702328	468,6624746	488,571677	165,4107636	0,126036173	FALSE	37,2%	448,1389951	161,3624979	0,122951562	FALSE	34,1%
543	1	1268,126458	Empty	531,0040588	414,5788771	81,92276471	0,064601416	FALSE	421,5100161	0,034552797	421,5100161	358,1070846	138,3945573	0,109133089	FALSE	28,2%	545,4307348	171,771285	0,135452804	FALSE	43,0%
543	2	1268,126458	Empty	566,6515295	439,7546597	81,92276471	0,064601416	FALSE	436,2141105	0,034552797	436,2141105	382,147601	138,3945573	0,109133089	FALSE	30,1%	409,0730511	171,771285	0,135452804	FALSE	32,3%
543	3	1268,126458	Empty	540,5398321	413,7929216	81,92276471	0,064601416	FALSE	410,4023318	0,034552797	410,4023318	527,8717728	138,3945573	0,109133089	FALSE	41,6%	313,6226725	171,771285	0,135452804	FALSE	24,7%
544	1	1183,466525	Empty	548,1349051	423,2122889	103,6678703	0,087596791	FALSE	418,8361795	0,0											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
559	1	1628,796926	Empty	814,8101293	609,3554382	130,6038329	0,080184233	FALSE	604,753845	0,106706192	604,753845	519,51085	190,0840921	0,116702143	FALSE	31,9%	703,344127	223,3169293	0,137105446	FALSE	43,2%
559	2	1628,796926	Empty	741,5433998	519,5291595	130,6038329	0,080184233	FALSE	498,368017	0,106706192	498,368017	472,7970703	190,0840921	0,116702143	FALSE	29,0%	518,2535673	223,3169293	0,137105446	FALSE	31,8%
559	3	1628,796926	Empty	675,00269	499,9123279	130,6038329	0,080184233	FALSE	525,6750636	0,106706192	525,6750636	636,4890053	190,0840921	0,116702143	FALSE	39,1%	407,1992314	223,3169293	0,137105446	FALSE	25,0%
560	1	1547,750672	Non-Empty	901,6032697	507,5786047	0	0	TRUE	512,3663128	0	508,5136924	442,3489922	0	0	TRUE	28,6%	545,2303502	0	0	TRUE	35,2%
560	2	1547,750672	Non-Empty	972,0073738	563,9641659	0	0	TRUE	554,7333312	0	548,2223449	476,890997	0	0	TRUE	30,8%	510,0541986	0	0	TRUE	33,0%
560	3	1547,750672	Non-Empty	870,5771473	476,2079009	0	0	TRUE	480,6510275	0	491,0146342	628,5106823	0	0	TRUE	40,6%	492,4661228	0	0	TRUE	31,8%
561	1	1116,605412	Non-Empty	543,1542012	385,27678	0	0	TRUE	406,7413518	0	366,5401998	296,2851687	12,86903249	0,011525139	FALSE	26,5%	372,201804	0	0	TRUE	33,3%
561	2	1116,605412	Non-Empty	602,9665537	410,0761431	0	0	TRUE	396,5277254	0	406,9037496	328,9122071	12,86903249	0,011525139	FALSE	29,5%	348,1887844	0	0	TRUE	31,2%
561	3	1116,605412	Non-Empty	508,5106362	321,2524891	0	0	TRUE	313,3363349	0	343,1614628	491,4080364	12,86903249	0,011525139	FALSE	44,0%	396,2148237	0	0	TRUE	35,5%
562	1	1150,769679	Non-Empty	643,1607666	381,0096888	0	0	TRUE	395,3500588	0	373,7569212	332,0093452	0	0	TRUE	28,9%	359,6155248	0	0	TRUE	31,3%
562	2	1150,769679	Non-Empty	679,7674617	397,3947933	0	0	TRUE	391,5135725	0	395,0299938	350,9062766	0	0	TRUE	30,5%	407,5642615	0	0	TRUE	35,4%
562	3	1150,769679	Non-Empty	657,3157943	372,3651973	0	0	TRUE	363,9060481	0	381,9827644	467,8540577	0	0	TRUE	40,7%	383,5898931	0	0	TRUE	33,3%
563	1	881,462206	Non-Empty	630,5168025	272,9955337	0	0	TRUE	272,8734716	0	284,4797873	277,9621196	0	0	TRUE	31,5%	325,3015284	0	0	TRUE	36,9%
563	2	881,462206	Non-Empty	613,7394674	272,1952772	0	0	TRUE	288,0502936	0	276,9101036	270,5658637	0	0	TRUE	30,7%	251,8463446	0	0	TRUE	28,6%
563	3	881,462206	Non-Empty	709,4035561	336,2713951	0	0	TRUE	320,5384408	0	320,0723151	332,9342228	0	0	TRUE	37,8%	304,314333	0	0	TRUE	34,5%
564	1	1723,452851	Empty	771,8201487	606,1680181	165,6521305	0,096116427	FALSE	625,5868026	0,085931429	625,5868026	528,9265187	242,8936299	0,140934305	FALSE	30,7%	503,4806082	268,3395404	0,1556988	FALSE	29,2%
564	2	1723,452851	Empty	729,2820011	539,326165	165,6521305	0,096116427	FALSE	534,4412439	0,085931429	534,4412439	499,775227	242,8936299	0,140934305	FALSE	29,0%	600,3038021	268,3395404	0,1556988	FALSE	34,8%
564	3	1723,452851	Empty	777,5634464	577,9586681	165,6521305	0,096116427	FALSE	563,4248048	0,085931429	563,4248048	694,7511055	242,8936299	0,140934305	FALSE	40,3%	619,6684409	268,3395404	0,1556988	FALSE	36,0%
565	1	636,7328606	Non-Empty	418,8026378	246,2880868	0	0	TRUE	259,6234772	0	223,2849936	200,4163044	0	0	TRUE	31,5%	257,7252055	0	0	TRUE	40,5%
565	2	636,7328606	Non-Empty	373,6042386	185,749073	0	0	TRUE	183,7438487	0	199,1874274	178,7867937	0	0	TRUE	28,1%	219,82444	0	0	TRUE	34,5%
565	3	636,7328606	Non-Empty	401,8758083	204,6957008	0	0	TRUE	193,3655347	0	214,2604396	257,5297625	0	0	TRUE	40,4%	159,1832151	0	0	TRUE	25,0%
566	1	1186,193274	Empty	573,791488	432,154117	104,6123523	0,088191659	FALSE	429,9656104	0,180427049	429,9656104	368,262934	171,9588039	0,144966936	FALSE	31,0%	399,5598397	122,0333978	0,102878174	FALSE	33,7%
566	2	1186,193274	Empty	505,8566652	392,0083952	104,6123523	0,088191659	FALSE	417,6089895	0,180427049	417,6089895	324,6619436	171,9588039	0,144966936	FALSE	27,4%	374,5873497	122,0333978	0,102878174	FALSE	31,6%
566	3	1186,193274	Empty	524,891714	362,0307618	104,6123523	0,088191659	FALSE	338,6186741	0,180427049	338,6186741	493,2683964	171,9588039	0,144966936	FALSE	41,6%	412,0460846	122,0333978	0,102878174	FALSE	34,7%
567	1	705,0233781	Non-Empty	376,0258956	222,8670792	0	0	TRUE	215,5919181	0	232,0057753	192,9174056	2,444964124	0,003467919	FALSE	27,4%	205,9618857	0	0	TRUE	29,2%
567	2	705,0233781	Non-Empty	409,5739705	278,2406371	0	0	TRUE	292,7909592	0	252,704741	210,1290063	2,444964124	0,003467919	FALSE	29,8%	253,4915517	0	0	TRUE	36,0%
567	3	705,0233781	Non-Empty	357,0744782	203,9156618	0	0	TRUE	196,6405007	0	220,3128618	301,9796661	2,444964124	0,003467919	FALSE	42,8%	245,5699407	0	0	TRUE	34,8%
568	1	1196,685105	Non-Empty	723,1933029	384,981779	0	0	TRUE	397,721045	0	384,7167089	360,166353	0	0	TRUE	30,1%	347,0386806	0	0	TRUE	29,0%
568	2	1196,685105	Non-Empty	725,8119544	369,2626251	0	0	TRUE	363,6640857	0	386,1097513	361,4704997	0	0	TRUE	30,2%	478,6740422	0	0	TRUE	40,0%
568	3	1196,685105	Non-Empty	800,5322178	442,4407013	0	0	TRUE	435,2999747	0	425,8586452	475,0482528	0	0	TRUE	39,7%	370,9723827	0	0	TRUE	31,0%
569	1	613,4598134	Non-Empty	328,8114065	177,2870317	0	0	TRUE	201,3977294	0	176,8842244	162,2196939	0	0	TRUE	26,4%	252,6010996	0	0	TRUE	41,2%
569	2	613,4598134	Non-Empty	402,4151522	221,0087191	0	0	TRUE	215,2373584	0	216,4793882	198,5322331	0	0	TRUE	32,4%	180,4293569	0	0	TRUE	29,4%
569	3	613,4598134	Non-Empty	409,1384722	215,1640626	0	0	TRUE	196,8247256	0	220,0962008	252,7078864	0	0	TRUE	41,2%	180,4293569	0	0	TRUE	29,4%
570	1	999,3827702	Empty	407,9456243	294,2559217	67,9389112	0,067980871	FALSE	314,1278304	0,086651659	314,1278304	261,2495685	100,9452645	0,101007609	FALSE	26,1%	309,0874547	98,87696145	0,098938029	FALSE	30,9%
570	2	999,3827702	Empty	526,64925	376,4925262	67,9389112	0,067980871	FALSE	359,8974137	0,086651659	359,8974137	337,2677168	100,9452645	0,101007609	FALSE	33,7%	309,0874547	98,87696145	0,098938029	FALSE	30,9%
570	3	999,3827702	Empty	465,4727298	328,6343223	67,9389112	0,067980871	FALSE	325,3575261	0,086651659	325,3575261	400,8654849	100,9452645	0,101007609	FALSE	40,1%	381,2078608	98,87696145	0,098938029	FALSE	38,1%
571	1	1082,348511	Non-Empty	646,8001611	336,9009872	0	0	TRUE	328,1265568	0	352,5483073	327,6278236	0	0	TRUE	30,3%	307,4853723	0	0	TRUE	28,4%
571	2	1082,348511	Non-Empty	644,9032583	341,2863069	0	0	TRUE	338,7940988	0	351,5143714	326,6669733	0	0	TRUE	30,2%	381,2818617	0	0	TRUE	35,2%
571	3	1082,348511	Non-Empty	694,0193213	404,1612164	0	0	TRUE	415,4278549	0	378,2858318	428,0537137	0	0	TRUE	39,5%	393,5812766	0	0	TRUE	36,4%
572	1	792,3533533	Non-Empty	477,4589971	226,2016441	0	0	TRUE	209,6820975	0	252,789414	241,3111415	0	0	TRUE	30,5%	217,0831105	0	0	TRUE	27,4%
572	2	792,3533533	Non-Empty	506,9111207	255,6537678	0	0	TRUE	239,1342211	0	268,3827637	256,2176861	0	0	TRUE	32,3%	238,7914216	0	0	TRUE	30,1%
572	3	792,3533533	Non-Empty	512,1966545	101,4979414	0	0	TRUE	343,5370347	0	271,1811756	294,8045257	0	0	TRUE	37,2%	336,4788213	0	0	TRUE	42,5%
573	1	1398,019001	Empty	599,7694028	502,8036827	55,66836346	0,039819461	FALSE	524,6582329	0,130652607	524,6582329	382,3852439	176,0868023	0,125954513	FALSE	27,4%	499,2925002	59,17954593	0,042331003	FALSE	35,7%
573	2	1398,019001	Empty	623,8397322	491,6759691	55,66836346	0,039819461	FALSE	478,3324763	0,130652607	478,3324763	397,7313731	176,0868023	0,125954513	FALSE	28,4%	482,6494169	59,17954593	0,042331003	FALSE	34,5%
573	3	1398,019001	Empty	530,8706765	403,5393489	55,66836346	0,039819461	FALSE	395,0282915	0,130652607	395,0282915	617,9023837	176,0868023	0,125954513	FALSE	44,2%	416,0770835	59,17954593	0,042331003	FALSE	29,8%
574	1	1148,731795	Non-Empty	655,9319739	398,7847355	0	0	TRUE	399,6921846	0	391,8516496	343,033455	0	0	TRUE	29,9%	454,4433475	0	0	TRUE	39,6%
574	2	1148,731795	Non-Empty	648,115024	398,1046493	0	0	TRUE	406,1489622	0	387,1818289	338,9453081	0	0	TRUE	29,5%	429,1964949	0	0	TRUE	37,4%
574	3	1148,731795	Non-Empty	618,84886	351,8424104	0	0	TRUE	342,8906484	0	369,6983167	466,7531416	0	0	TRUE	40,6%	265,0919527	0	0	TRUE	23,1%
575	1	1887,258544	Empty	755,311553	581,031481	150,3762463	0,079679727	FALSE	581,9854496	0,062588991	581,9854496	538,1011229	182,0981008	0,096488158	FALSE	28,5%	629,0861815	214,5605229	0,113688993	FALSE	33,3%
575	2	1887,258544	Empty	825,7274417	637,3769604	150,3762463	0,079679727	FALSE	624,2605197	0,062588991	624,2605197	588,267003	182,0981008	0,096488158	FALSE	31,2%	547,9137709	214,5605229	0,113688993	FALSE	29,0%
575	3	1887,258544	Empty	831,9216714	668,8501029	150,3762463															

Instance	Player	Total Cost	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
590	1	1104,355053	Non-Empty	691,5905405	351,5905405	0	0	TRUE	351,5905405	0	359,5262981	326,655391	0	0	TRUE	29,6%	329,1827563	0	0	TRUE	29,8%
590	2	1104,355053	Non-Empty	732,4725292	392,4725292	0	0	TRUE	392,4725292	0	380,7789747	345,9649697	0	0	TRUE	31,3%	382,2767492	0	0	TRUE	34,6%
590	3	1104,355053	Non-Empty	700,2919835	360,2919835	0	0	TRUE	360,2919835	0	364,0497805	431,7346926	0	0	TRUE	39,1%	392,8955478	0	0	TRUE	35,6%
591	1	1272,866064	Non-Empty	562,518276	397,9318279	0	0	TRUE	427,5928577	0	385,8628718	333,6665176	0	0	TRUE	26,2%	406,2338501	0	0	TRUE	31,9%
591	2	1272,866064	Non-Empty	663,5299634	432,1834172	0	0	TRUE	395,0843488	0	455,1524602	393,5831805	0	0	TRUE	30,9%	446,8572351	0	0	TRUE	35,1%
591	3	1272,866064	Non-Empty	629,5602578	442,7508185	0	0	TRUE	450,1888571	0	431,8507316	545,6163655	0	0	TRUE	42,9%	419,7749784	0	0	TRUE	33,0%
592	1	1330,221723	Non-Empty	793,0303784	452,38645	0	0	TRUE	456,9910564	0	445,8667811	418,8136597	0	0	TRUE	31,5%	443,4072411	0	0	TRUE	33,3%
592	2	1330,221723	Non-Empty	730,9922149	381,3135233	0	0	TRUE	376,8833666	0	410,9869618	386,0501855	0	0	TRUE	29,0%	415,6942885	0	0	TRUE	31,3%
592	3	1330,221723	Non-Empty	841,9447345	496,5217499	0	0	TRUE	496,3473002	0	473,3679803	525,357878	0	0	TRUE	39,5%	471,1201936	0	0	TRUE	35,4%
593	1	760,4633652	Non-Empty	597,6926708	281,2898815	0	0	TRUE	274,5483883	0	269,036739	255,0588808	0	0	TRUE	33,5%	241,1225304	0	0	TRUE	31,7%
593	2	760,4633652	Non-Empty	537,649861	219,310755	0	0	TRUE	210,6329452	0	242,0099365	229,4362613	0	0	TRUE	30,2%	204,0267565	0	0	TRUE	26,8%
593	3	760,4633652	Non-Empty	554,1047216	259,8627287	0	0	TRUE	275,2820318	0	249,4166897	275,9682231	0	0	TRUE	36,3%	315,3140783	0	0	TRUE	41,5%
594	1	1180,636844	Non-Empty	736,8611954	368,5151814	0	0	TRUE	366,6594826	0	381,5457674	361,2171781	0	0	TRUE	30,6%	347,2461307	0	0	TRUE	29,4%
594	2	1180,636844	Non-Empty	751,2774472	381,0968935	0	0	TRUE	377,4066549	0	389,0104838	368,2841777	0	0	TRUE	31,2%	430,585202	0	0	TRUE	36,5%
594	3	1180,636844	Non-Empty	791,9691472	431,02427694	0	0	TRUE	436,5707068	0	410,0805931	451,1354884	0	0	TRUE	38,2%	402,8055116	0	0	TRUE	34,1%
595	1	1692,66224	Empty	690,3916963	559,7250296	130,6666667	0,077195948	FALSE	562,5489719	0,021898077	562,5489719	505,2857044	185,1059919	0,109357902	FALSE	29,9%	540,2113532	150,180343	0,088724342	FALSE	31,9%
595	2	1692,66224	Empty	661,9837414	527,0811613	130,6666667	0,077195948	FALSE	525,6691902	0,021898077	525,6691902	484,4944151	185,1059919	0,109357902	FALSE	28,6%	504,197263	150,180343	0,088724342	FALSE	29,8%
595	3	1692,66224	Empty	740,7586292	605,8560491	130,6666667	0,077195948	FALSE	604,444078	0,021898077	604,444078	702,8821206	185,1059919	0,109357902	FALSE	41,5%	648,2536239	150,180343	0,088724342	FALSE	38,3%
596	1	1000,407645	Non-Empty	698,8099384	383,5050337	0	0	TRUE	384,08879	0	358,8646727	325,0076148	0	0	TRUE	32,5%	359,1206931	0	0	TRUE	35,9%
596	2	1000,407645	Non-Empty	609,5634177	283,9679064	0	0	TRUE	274,2610562	0	313,032932	283,5001931	0	0	TRUE	28,3%	320,6434759	0	0	TRUE	32,1%
596	3	1000,407645	Non-Empty	639,7002717	332,9347048	0	0	TRUE	342,0577988	0	328,5096791	391,899837	0	0	TRUE	39,2%	320,6434759	0	0	TRUE	32,1%
597	1	897,0249239	Non-Empty	671,6972539	295,0952171	0	0	TRUE	273,4038985	0	307,1375068	285,5729029	0	0	TRUE	31,8%	263,127311	0	0	TRUE	29,3%
597	2	897,0249239	Non-Empty	599,5576817	294,8046143	0	0	TRUE	344,9622651	0	274,1512646	254,9026762	0	0	TRUE	28,4%	370,7703019	0	0	TRUE	41,3%
597	3	897,0249239	Non-Empty	690,5021428	307,1250925	0	0	TRUE	278,6587603	0	315,7361525	356,5493449	0	0	TRUE	39,7%	263,127311	0	0	TRUE	29,3%
598	1	1409,877537	Non-Empty	843,9057233	472,9939838	0	0	TRUE	467,9554275	0	474,4985463	421,6092502	0	0	TRUE	29,9%	511,2742717	0	0	TRUE	36,3%
598	2	1409,877537	Non-Empty	844,7285015	477,324793	0	0	TRUE	475,7942677	0	474,9611656	422,0203042	0	0	TRUE	29,9%	480,2879522	0	0	TRUE	34,1%
598	3	1409,877537	Non-Empty	818,8628621	459,5587603	0	0	TRUE	466,1278417	0	460,4178251	566,2479826	0	0	TRUE	40,2%	418,3153132	0	0	TRUE	29,7%
599	1	1279,582594	Non-Empty	761,1938307	401,060034	0	0	TRUE	377,8842866	0	425,2472263	388,3382803	0	0	TRUE	30,3%	319,8956486	0	0	TRUE	25,0%
599	2	1279,582594	Non-Empty	759,8178815	420,2291687	0	0	TRUE	417,5985053	0	424,4785409	387,6363123	0	0	TRUE	30,3%	421,6806277	0	0	TRUE	33,0%
599	3	1279,582594	Non-Empty	769,4450305	458,2933918	0	0	TRUE	484,0998025	0	429,8568272	503,6080018	0	0	TRUE	39,4%	538,0063181	0	0	TRUE	42,0%
600	1	1387,897837	Empty	609,3868838	418,593351	132,3335192	0,09534817	FALSE	423,8055593	0,045618768	423,8055593	398,5113176	180,1097098	0,129771591	FALSE	28,7%	518,5552358	243,7948601	0,175657641	FALSE	37,4%
600	2	1387,897837	Empty	703,7605266	510,6682789	132,3335192	0,09534817	FALSE	512,8498043	0,045618768	512,8498043	460,2273895	180,1097098	0,129771591	FALSE	33,2%	396,5422391	243,7948601	0,175657641	FALSE	28,6%
600	3	1387,897837	Empty	660,5717456	458,270223	132,3335192	0,09534817	FALSE	451,2424734	0,045618768	451,2424734	529,1591298	180,1097098	0,129771591	FALSE	38,1%	472,800362	243,7948601	0,175657641	FALSE	34,1%
601	1	922,6275842	Non-Empty	585,8229169	289,2665468	0	0	TRUE	284,3157477	0	300,7027163	279,5420561	0	0	TRUE	30,3%	351,9301094	0	0	TRUE	38,1%
601	2	922,6275842	Non-Empty	591,9818775	308,5896717	0	0	TRUE	316,8030369	0	303,8641088	282,4809792	0	0	TRUE	30,6%	247,3022391	0	0	TRUE	26,8%
601	3	922,6275842	Non-Empty	619,6395029	324,7713658	0	0	TRUE	321,5087996	0	318,0607591	360,6045489	0	0	TRUE	39,1%	323,3952357	0	0	TRUE	35,1%
602	1	971,3472859	Non-Empty	671,7517468	296,4757361	0	0	TRUE	295,6882915	0	311,4856748	309,2850192	0	0	TRUE	31,8%	274,5111895	0	0	TRUE	28,3%
602	2	971,3472859	Non-Empty	681,4533553	297,3164548	0	0	TRUE	287,6681203	0	315,9842297	313,7517916	0	0	TRUE	32,3%	337,8599255	0	0	TRUE	34,8%
602	3	971,3472859	Non-Empty	741,607882	377,555095	0	0	TRUE	387,990874	0	343,8773814	348,310475	0	0	TRUE	35,9%	358,9761709	0	0	TRUE	37,0%
603	1	1507,233969	Non-Empty	816,9158872	454,8040146	0	0	TRUE	452,524404	0	475,9998205	430,7884177	0	0	TRUE	28,6%	576,2953412	0	0	TRUE	38,2%
603	2	1507,233969	Non-Empty	868,4741594	520,9271862	0	0	TRUE	533,212475	0	506,0417486	457,9769041	0	0	TRUE	30,4%	428,527305	0	0	TRUE	28,4%
603	3	1507,233969	Non-Empty	901,3407086	531,5027684	0	0	TRUE	521,4970903	0	525,1924001	618,4686474	0	0	TRUE	41,0%	502,4113231	0	0	TRUE	33,3%
604	1	1244,765555	Non-Empty	768,2397748	409,3466685	0	0	TRUE	400,5171305	0	416,6869872	390,6448073	0	0	TRUE	31,4%	432,9619323	0	0	TRUE	34,8%
604	2	1244,765555	Non-Empty	736,8051718	378,7427316	0	0	TRUE	370,7438598	0	399,637115	374,660521	0	0	TRUE	30,1%	405,9018116	0	0	TRUE	32,6%
604	3	1244,765555	Non-Empty	789,9113137	456,6761553	0	0	TRUE	473,5045651	0	428,4414532	479,4602271	0	0	TRUE	38,5%	405,9018116	0	0	TRUE	32,6%
605	1	896,368729	Non-Empty	636,6090672	314,2731373	0	0	TRUE	291,0683455	0	318,1272023	272,6614044	0	0	TRUE	30,4%	408,4718259	0	0	TRUE	45,6%
605	2	896,368729	Non-Empty	613,7995127	311,6144184	0	0	TRUE	308,5604622	0	306,7244401	262,8920098	0	0	TRUE	29,3%	238,2752318	0	0	TRUE	26,6%
605	3	896,368729	Non-Empty	543,3535635	270,4811734	0	0	TRUE	296,7399213	0	271,5215866	360,8153148	0	0	TRUE	40,3%	249,6216714	0	0	TRUE	27,8%
606	1	947,4005952	Non-Empty	571,5511115	310,6633065	0	0	TRUE	329,9241945	0	302,8715331	271,0238964	0	0	TRUE	28,6%	354,0790103	0	0	TRUE	37,4%
606	2	947,4005952	Non-Empty	624,1415632	334,4139979	0	0	TRUE	324,8351256	0	330,7398207	295,9617696	0	0	TRUE	31,2%	287,0910894	0	0	TRUE	30,3%
606	3	947,4005952	Non-Empty	592,1539996	302,3232908	0	0	TRUE	292,6412751	0	313,7892414	380,4149291	0	0	TRUE	40,2%	306,2304954	0	0	TRUE	32,3%
607	1	873,8228447	Non-Empty	509,0363548	311,2090163	0	0	TRUE	335,1557293	0	288,9965506	255,6937146	0	0	TRUE	29,3%	284,7287921	0	0	TRUE	32,6%
607	2	873,8228447	Non-Empty	508,1582939	276,3735843	0	0	TRUE	266,3629262	0	288,4980468	255,2526565	0	0	TRUE	29,2%	304,3652605	0	0	TRUE	34,8%
607	3	873,8228447	Non-Empty	521,9503504	286,2402441	0	0	TRUE	272,3041892	0	296,3282473	362,8764736	0	0	TRUE	41,5%	284,7287921	0	0	TRUE	32,6%
608	1	1423,369276	Empty	629,223657	474,1085327	79,39614671	0,055780427	FALSE	45												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
621	1	1295,751272	Non-Empty	775,5916863	461,3997009	0	0	TRUE	462,4293768	0	448,3655865	403,193031	0	0	TRUE	31,1%	461,8519384	0	0	TRUE	35,6%
621	2	1295,751272	Non-Empty	697,4524286	377,4210918	0	0	TRUE	372,6114161	0	403,1936813	362,5721674	0	0	TRUE	28,0%	397,7058358	0	0	TRUE	30,7%
621	3	1295,751272	Non-Empty	768,3721403	456,9304789	0	0	TRUE	460,7104787	0	444,1920039	529,9860732	0	0	TRUE	40,9%	436,1934974	0	0	TRUE	33,7%
622	1	1280,620935	Empty	541,821525	438,3392023	80,75533352	0,063059514	FALSE	433,844421	0,045233225	433,844421	358,3151337	176,7784258	0,138041181	FALSE	28,0%	409,2706082	101,5335778	0,079284646	FALSE	32,0%
622	2	1280,620935	Empty	564,5821784	469,3902056	80,75533352	0,063059514	FALSE	473,1857742	0,045233225	473,1857742	373,3671133	176,7784258	0,138041181	FALSE	29,2%	475,2819966	101,5335778	0,079284646	FALSE	37,1%
622	3	1280,620935	Empty	471,179856	372,8915273	80,75533352	0,063059514	FALSE	373,59074	0,045233225	373,59074	548,9386883	176,7784258	0,138041181	FALSE	42,9%	396,0683305	101,5335778	0,079284646	FALSE	30,9%
623	1	1784,421742	Empty	807,8865414	629,2343908	108,7500305	0,06094413	FALSE	620,6267294	0,02626263	620,6267294	530,27362	186,8198674	0,104694907	FALSE	29,7%	587,8095149	128,9435589	0,072260697	FALSE	32,9%
623	2	1784,421742	Empty	782,1527699	608,092256	108,7500305	0,06094413	FALSE	604,0762313	0,02626263	604,0762313	513,3827083	186,8198674	0,104694907	FALSE	28,8%	629,7959088	128,9435589	0,072260697	FALSE	35,3%
623	3	1784,421742	Empty	704,515898	547,0950948	108,7500305	0,06094413	FALSE	559,7187809	0,02626263	559,7187809	740,7654133	186,8198674	0,104694907	FALSE	41,5%	566,8163179	128,9435589	0,072260697	FALSE	31,8%
624	1	1255,675212	Non-Empty	778,4484799	405,4419824	0	0	TRUE	419,641702	0	404,3688999	356,6762755	0	0	TRUE	28,4%	365,0218641	0	0	TRUE	29,1%
624	2	1255,675212	Non-Empty	859,0503475	485,9680568	0	0	TRUE	500,0919831	0	446,2379373	393,6071382	0	0	TRUE	31,3%	481,8288605	0	0	TRUE	38,4%
624	3	1255,675212	Non-Empty	779,7950362	364,2651732	0	0	TRUE	335,9415273	0	405,0683752	505,3917986	0	0	TRUE	40,2%	408,8244877	0	0	TRUE	32,6%
625	1	1309,551025	Non-Empty	717,0422359	347,9661713	0	0	TRUE	424,2800428	0	445,9296694	377,8393141	0	0	TRUE	28,9%	457,7071543	0	0	TRUE	35,0%
625	2	1309,551025	Non-Empty	741,5160096	460,7267905	0	0	TRUE	445,3275074	0	461,149947	390,7355612	0	0	TRUE	29,8%	381,4226286	0	0	TRUE	29,1%
625	3	1309,551025	Non-Empty	647,1625872	410,858063	0	0	TRUE	439,9434747	0	402,4714084	540,9761496	0	0	TRUE	41,3%	470,4212419	0	0	TRUE	35,9%
626	1	1211,45458	Non-Empty	752,6244728	391,7439938	0	0	TRUE	375,0920198	0	406,2894142	373,6291659	0	0	TRUE	30,8%	369,8124508	0	0	TRUE	30,5%
626	2	1211,45458	Non-Empty	754,200777	393,320298	0	0	TRUE	376,668324	0	407,1403508	374,4116986	0	0	TRUE	30,9%	382,5646043	0	0	TRUE	31,6%
626	3	1211,45458	Non-Empty	737,3148456	426,3902884	0	0	TRUE	459,6942363	0	398,0248152	463,4137157	0	0	TRUE	38,3%	459,0775251	0	0	TRUE	37,9%
627	1	966,0544133	Non-Empty	643,9121282	312,5156767	0	0	TRUE	327,2642498	0	310,3304643	269,1028521	0	0	TRUE	27,9%	326,0433645	0	0	TRUE	33,8%
627	2	966,0544133	Non-Empty	731,5662346	380,742676	0	0	TRUE	376,0641422	0	352,5749544	305,7351331	0	0	TRUE	31,6%	289,816324	0	0	TRUE	30,0%
627	3	966,0544133	Non-Empty	629,0111245	272,7960606	0	0	TRUE	262,7260213	0	303,1489947	391,2164282	0	0	TRUE	40,5%	350,1947248	0	0	TRUE	36,3%
628	1	894,4724392	Non-Empty	656,2775222	327,4973521	0	0	TRUE	313,9866179	0	318,9851098	292,8380569	0	0	TRUE	32,7%	377,1871732	0	0	TRUE	42,2%
628	2	894,4724392	Non-Empty	573,8153649	277,3459113	0	0	TRUE	296,1458935	0	278,9041998	256,0425594	0	0	TRUE	28,6%	258,642633	0	0	TRUE	28,9%
628	3	894,4724392	Non-Empty	610,1878595	289,6291758	0	0	TRUE	284,3399278	0	296,5831295	345,5918229	0	0	TRUE	38,6%	258,642633	0	0	TRUE	28,9%
629	1	1066,694988	Non-Empty	811,874512	385,0177199	0	0	TRUE	376,1039959	0	373,2012258	330,6104169	0	0	TRUE	31,0%	341,8894194	0	0	TRUE	32,1%
629	2	1066,694988	Non-Empty	785,1424529	353,246119	0	0	TRUE	339,2928533	0	360,913074	319,7246247	0	0	TRUE	30,0%	369,2405729	0	0	TRUE	34,6%
629	3	1066,694988	Non-Empty	723,5072278	328,4311495	0	0	TRUE	351,2981393	0	332,5806886	416,3599468	0	0	TRUE	39,0%	355,5649962	0	0	TRUE	33,3%
630	1	1558,707327	Empty	724,3388944	504,2894698	97,4611889	0,062526933	FALSE	541,2178273	0,015428393	541,2178273	473,8388165	163,9118421	0,105158832	FALSE	30,4%	497,4597851	140,2908735	0,090004628	FALSE	31,9%
630	2	1558,707327	Empty	700,3610789	514,3666735	97,4611889	0,062526933	FALSE	513,3500502	0,015428393	513,3500502	458,1533138	163,9118421	0,105158832	FALSE	29,4%	530,6237708	140,2908735	0,090004628	FALSE	34,0%
630	3	1558,707327	Empty	688,9407	504,0511836	97,4611889	0,062526933	FALSE	504,1394493	0,015428393	504,1394493	626,7151964	163,9118421	0,105158832	FALSE	40,2%	530,6237708	140,2908735	0,090004628	FALSE	34,0%
631	1	1129,032443	Non-Empty	520,4212359	369,4346083	0	0	TRUE	380,2809752	0	363,9275457	306,4126555	0	0	TRUE	27,1%	364,5833931	0	0	TRUE	32,3%
631	2	1129,032443	Non-Empty	555,5051129	387,261789	0	0	TRUE	380,8514595	0	388,461497	327,0692759	0	0	TRUE	29,0%	399,865657	0	0	TRUE	35,4%
631	3	1129,032443	Non-Empty	538,6050777	372,3360459	0	0	TRUE	367,9000085	0	376,6434006	495,5505118	0	0	TRUE	43,9%	364,5833931	0	0	TRUE	32,3%
632	1	1495,474204	Empty	703,4699398	537,3747676	77,08398153	0,051544842	FALSE	512,1210035	0,162243324	512,1210035	482,8875444	143,3330568	0,095844553	FALSE	32,3%	503,9097862	44,76199067	0,029931637	FALSE	33,7%
632	2	1495,474204	Empty	528,3324876	428,9158548	77,08398153	0,051544842	FALSE	470,3406301	0,162243324	470,3406301	362,6667795	143,3330568	0,095844553	FALSE	24,3%	487,6546318	44,76199067	0,029931637	FALSE	32,6%
632	3	1495,474204	Empty	686,1960014	529,183582	77,08398153	0,051544842	FALSE	513,0125707	0,162243324	513,0125707	649,9198804	143,3330568	0,095844553	FALSE	43,5%	503,9097862	44,76199067	0,029931637	FALSE	33,7%
633	1	1822,74215	Empty	831,3707254	604,2370376	125,8498986	0,069044269	FALSE	579,207405	0,090322841	579,207405	574,0048467	171,9400619	0,094330436	FALSE	31,5%	573,4469685	118,2866366	0,064894882	FALSE	31,5%
633	2	1822,74215	Empty	758,7038169	569,9234603	125,8498986	0,069044269	FALSE	583,2471587	0,090322841	583,2471587	523,833297	171,9400619	0,094330436	FALSE	28,7%	593,9272173	118,2866366	0,064894882	FALSE	32,6%
633	3	1822,74215	Empty	838,9797728	648,5816519	125,8498986	0,069044269	FALSE	660,287586	0,090322841	660,287586	724,9040061	171,9400619	0,094330436	FALSE	39,8%	655,3679639	118,2866366	0,064894882	FALSE	36,0%
634	1	1121,865202	Empty	586,7397333	427,0355747	86,63859214	0,077227275	FALSE	411,9383712	0,03727065	411,9383712	365,3325716	136,9457149	0,12206967	FALSE	32,6%	333,8884529	155,8896041	0,138955735	FALSE	29,8%
634	2	1121,865202	Empty	506,4677161	368,1590582	86,63859214	0,077227275	FALSE	374,4573555	0,03727065	374,4573555	315,3513264	136,9457149	0,12206967	FALSE	28,1%	400,6661435	155,8896041	0,138955735	FALSE	35,7%
634	3	1121,865202	Empty	462,4786176	326,6705688	86,63859214	0,077227275	FALSE	335,4694751	0,03727065	335,4694751	441,1813038	136,9457149	0,12206967	FALSE	39,3%	387,3106054	155,8896041	0,138955735	FALSE	34,5%
635	1	1991,353908	Empty	821,1197385	601,2655805	183,1987033	0,091997059	FALSE	594,6561206	0,11367002	594,6561206	577,6951407	170,1136884	0,085426145	FALSE	29,0%	593,1692492	175,7165957	0,088239762	FALSE	29,8%
635	2	1991,353908	Empty	913,9747227	677,2934898	183,1987033	0,091997059	FALSE	653,856955	0,11367002	653,856955	643,022852	170,1136884	0,085426145	FALSE	32,3%	677,9077134	175,7165957	0,088239762	FALSE	34,0%
635	3	1991,353908	Empty	895,9935412	712,7948378	183,1987033	0,091997059	FALSE	742,8408326	0,11367002	742,8408326	770,6359155	170,1136884	0,085426145	FALSE	38,7%	720,2769455	175,7165957	0,088239762	FALSE	36,2%
636	1	1329,578375	Non-Empty	676,7564052	389,863897	0	0	TRUE	402,5766606	0	403,7888293	354,9745896	0	0	TRUE	26,7%	438,4779747	0	0	TRUE	33,0%
636	2	1329,578375	Non-Empty	794,7533153	492,4341957	0	0	TRUE	489,720348	0	474,1920553	416,8667333	0	0	TRUE	31,4%	452,6224255	0	0	TRUE	34,0%
636	3	1329,578375	Non-Empty	756,8844702	447,2802822	0	0	TRUE	437,2813662	0	451,5974903	557,7370519	0	0	TRUE	41,9%	438,4779747	0	0	TRUE	33,0%
637	1	1492,416344	Empty	656,1845798	483,4948478	166,6666667	0,111675718	FALSE	481,4871593	0,066421276	481,4871593	427,6757595	257,2527638	0,172373323	FALSE	28,7%	460,4263189	310,0527387	0,207752173	FALSE	30,9%
637	2	1492,416344	Empty	738,7255183	572,0588517	166,6666667	0,111675718														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
652	1	914,4761795	Non-Empty	722,6985223	308,4860721	0	0	TRUE	296,9873385	0	311,356444	283,1450171	0	0	TRUE	31,0%	363,4456611	0	0	TRUE	39,7%
652	2	914,4761795	Non-Empty	720,8460591	320,0573756	0	0	TRUE	321,9824089	0	310,5583569	282,4192432	0	0	TRUE	30,9%	293,1013396	0	0	TRUE	32,1%
652	3	914,4761795	Non-Empty	679,072748	285,9327318	0	0	TRUE	295,5064321	0	292,5613786	348,9119191	0	0	TRUE	38,2%	257,9291788	0	0	TRUE	28,2%
653	1	1285,783919	Non-Empty	674,5217169	439,4693038	0	0	TRUE	446,1814534	0	431,2559464	379,7385697	0	0	TRUE	29,5%	453,8060891	0	0	TRUE	35,3%
653	2	1285,783919	Non-Empty	636,3116194	395,6891369	0	0	TRUE	396,831217	0	406,826293	358,2272568	0	0	TRUE	27,9%	408,4254802	0	0	TRUE	31,8%
653	3	1285,783919	Non-Empty	700,2442709	450,6254785	0	0	TRUE	442,7712487	0	447,7016798	547,8180927	0	0	TRUE	42,6%	423,5523499	0	0	TRUE	32,9%
654	1	1160,21099	Empty	476,6317824	389,6381945	96,98248228	0,083590384	FALSE	397,6291438	0,080649944	397,6291438	335,1993593	151,4213175	0,13051188	FALSE	28,9%	410,9080591	158,3563419	0,136489262	FALSE	35,4%
654	2	1160,21099	Empty	492,9724154	384,7454829	96,98248228	0,083590384	FALSE	371,5030877	0,080649944	371,5030877	346,6911857	151,4213175	0,13051188	FALSE	29,9%	302,1382787	158,3563419	0,136489262	FALSE	26,0%
654	3	1160,21099	Empty	475,5604043	385,827313	96,98248228	0,083590384	FALSE	391,0787589	0,080649944	391,0787589	478,3204453	151,4213175	0,13051188	FALSE	41,2%	447,1646525	158,3563419	0,136489262	FALSE	38,5%
655	1	1320,331556	Empty	513,4433799	446,4934147	66,94996519	0,050706934	FALSE	470,591122	0,151512157	470,591122	363,9105803	149,5327995	0,113253977	FALSE	27,6%	502,9834497	78,41162624	0,05938783	FALSE	38,1%
655	2	1320,331556	Empty	508,8836381	415,3164606	66,94996519	0,050706934	FALSE	412,7969557	0,151512157	412,7969557	360,678796	149,5327995	0,113253977	FALSE	27,3%	377,2375873	78,41162624	0,05938783	FALSE	28,6%
655	3	1320,331556	Empty	571,1475551	458,5216802	66,94996519	0,050706934	FALSE	436,9434778	0,151512157	436,9434778	595,7421792	149,5327995	0,113253977	FALSE	45,1%	440,1105185	78,41162624	0,05938783	FALSE	33,3%
656	1	881,5148396	Non-Empty	513,4899272	262,1938966	0	0	TRUE	278,3027935	0	268,8371012	257,870494	0	0	TRUE	29,3%	235,0706239	0	0	TRUE	26,7%
656	2	881,5148396	Non-Empty	566,9121894	279,8353958	0	0	TRUE	260,1635296	0	296,8062693	284,6987226	0	0	TRUE	32,3%	303,6328892	0	0	TRUE	34,4%
656	3	881,5148396	Non-Empty	603,3275055	339,4855473	0	0	TRUE	343,0485165	0	315,8714691	338,9456229	0	0	TRUE	38,5%	342,8113265	0	0	TRUE	38,9%
657	1	1183,602097	Non-Empty	672,102059	388,1813283	0	0	TRUE	377,1711908	0	397,2870937	337,6356301	0	0	TRUE	28,5%	340,1155452	0	0	TRUE	28,7%
657	2	1183,602097	Non-Empty	722,6132604	451,7697252	0	0	TRUE	453,8367832	0	427,1448336	363,01032	0	0	TRUE	30,7%	421,743276	0	0	TRUE	35,6%
657	3	1183,602097	Non-Empty	607,6185573	343,6510437	0	0	TRUE	352,5941233	0	359,17017	482,9561471	0	0	TRUE	40,8%	421,743276	0	0	TRUE	35,6%
658	1	1751,913853	Empty	780,7316775	593,964085	158,168712	0,090283384	FALSE	581,8631593	0,084573492	581,8631593	511,9333477	274,1461876	0,156483829	FALSE	29,2%	554,176831	169,3570855	0,096669756	FALSE	31,6%
658	2	1751,913853	Empty	796,2646685	638,0959566	158,168712	0,090283384	FALSE	654,5939113	0,084573492	654,5939113	522,1184809	274,1461876	0,156483829	FALSE	29,8%	661,4368628	169,3570855	0,096669756	FALSE	37,8%
658	3	1751,913853	Empty	698,9175069	519,8538113	158,168712	0,090283384	FALSE	515,4567824	0,084573492	515,4567824	717,8620243	274,1461876	0,156483829	FALSE	41,0%	536,3001591	169,3570855	0,096669756	FALSE	30,6%
659	1	1226,054575	Non-Empty	725,1336996	433,6329648	0	0	TRUE	451,699532	0	412,6004483	356,9815599	0	0	TRUE	29,1%	390,7206887	0	0	TRUE	31,9%
659	2	1226,054575	Non-Empty	728,4807713	404,7617641	0	0	TRUE	390,6100589	0	414,5049292	358,6293151	0	0	TRUE	29,3%	390,7206887	0	0	TRUE	31,9%
659	3	1226,054575	Non-Empty	701,1420099	387,6598461	0	0	TRUE	383,7449842	0	398,9491976	510,4437	0	0	TRUE	41,6%	444,6131975	0	0	TRUE	36,3%
660	1	1004,834342	Non-Empty	552,2495815	306,3455978	0	0	TRUE	315,2088392	0	313,666863	299,8097212	0	0	TRUE	29,8%	370,2021258	0	0	TRUE	36,8%
660	2	1004,834342	Non-Empty	555,5200469	294,9220336	0	0	TRUE	289,0912454	0	315,5244228	301,5852179	0	0	TRUE	30,0%	285,5844971	0	0	TRUE	28,4%
660	3	1004,834342	Non-Empty	661,3663885	403,5667102	0	0	TRUE	400,534257	0	375,6430558	403,4394024	0	0	TRUE	40,1%	349,0477187	0	0	TRUE	34,7%
661	1	1229,008581	Non-Empty	810,9145313	419,7007356	0	0	TRUE	405,5489479	0	422,2621793	378,8298008	0	0	TRUE	30,8%	457,6095779	0	0	TRUE	37,2%
661	2	1229,008581	Non-Empty	811,1156613	417,2898913	0	0	TRUE	400,5261293	0	422,3669124	378,9237614	0	0	TRUE	30,8%	366,0876624	0	0	TRUE	29,8%
661	3	1229,008581	Non-Empty	738,164412	392,0179538	0	0	TRUE	422,9335035	0	384,3794891	471,2550186	0	0	TRUE	38,3%	405,3113405	0	0	TRUE	33,0%
662	1	1732,203355	Empty	781,6209765	563,0081432	127,1301659	0,073392172	FALSE	552,4961871	0,075109158	552,4961871	518,1433023	151,0662964	0,087210486	FALSE	29,9%	544,9628534	114,3554915	0,066017359	FALSE	31,5%
662	2	1732,203355	Empty	806,7163856	588,8194565	127,1301659	0,073392172	FALSE	579,0234045	0,075109158	579,0234045	534,779266	151,0662964	0,087210486	FALSE	30,9%	583,8887715	114,3554915	0,066017359	FALSE	33,7%
662	3	1732,203355	Empty	768,1686249	580,3757557	127,1301659	0,073392172	FALSE	600,6837638	0,075109158	600,6837638	679,2807872	151,0662964	0,087210486	FALSE	39,2%	603,3517305	114,3554915	0,066017359	FALSE	34,8%
663	1	1714,142996	Empty	726,8093249	455,4674414	117,9518226	0,068810959	FALSE	540,4675137	0,105018096	540,4675137	502,5090922	133,3650476	0,077802755	FALSE	29,3%	549,1914454	221,8341114	0,129414006	FALSE	32,0%
663	2	1714,142996	Empty	759,4155404	565,5283157	117,9518226	0,068810959	FALSE	547,9830468	0,105018096	547,9830468	525,0527211	133,3650476	0,077802755	FALSE	30,6%	665,6866004	221,8341114	0,129414006	FALSE	38,8%
663	3	1714,142996	Empty	756,9439984	603,1472391	117,9518226	0,068810959	FALSE	625,6924357	0,105018096	625,6924357	686,5811828	133,3650476	0,077802755	FALSE	40,1%	499,2649503	221,8341114	0,129414006	FALSE	29,1%
664	1	839,6893778	Non-Empty	557,5685586	260,2670944	0	0	TRUE	257,2436188	0	271,8014811	260,094029	0	0	TRUE	31,0%	295,7996672	0	0	TRUE	35,2%
664	2	839,6893778	Non-Empty	581,6975438	281,319438	0	0	TRUE	275,2193209	0	283,5637905	271,3496941	0	0	TRUE	32,3%	324,4254414	0	0	TRUE	38,6%
664	3	839,6893778	Non-Empty	583,2572415	298,1028454	0	0	TRUE	307,226438	0	284,3241062	308,2456547	0	0	TRUE	36,7%	219,4642692	0	0	TRUE	26,1%
665	1	1735,183018	Empty	753,4525951	550,7409068	148,6242626	0,085653364	FALSE	551,5585821	0,075155122	551,5585821	500,0645197	179,7632889	0,103599037	FALSE	28,8%	528,0991795	158,3497753	0,091258256	FALSE	30,4%
665	2	1735,183018	Empty	841,7758846	617,0738096	148,6242626	0,085653364	FALSE	595,9010982	0,075155122	595,9010982	558,6844562	179,7632889	0,103599037	FALSE	32,2%	565,8205495	158,3497753	0,091258256	FALSE	32,6%
665	3	1735,183018	Empty	750,5426294	567,3683019	148,6242626	0,085653364	FALSE	587,723338	0,075155122	587,723338	676,4340425	179,7632889	0,103599037	FALSE	39,0%	641,2632894	158,3497753	0,091258256	FALSE	37,0%
666	1	1456,112606	Non-Empty	902,668826	504,3948783	0	0	TRUE	501,557246	0	497,4177779	437,7713903	0	0	TRUE	30,1%	408,4218286	0	0	TRUE	28,0%
666	2	1456,112606	Non-Empty	877,727488	484,6852652	0	0	TRUE	487,0793577	0	483,6737949	425,6754766	0	0	TRUE	29,2%	497,2091826	0	0	TRUE	34,1%
666	3	1456,112606	Non-Empty	862,0252383	467,0324627	0	0	TRUE	467,4760024	0	475,0210334	592,6657393	0	0	TRUE	40,7%	550,481595	0	0	TRUE	37,8%
667	1	1631,032826	Empty	708,7588836	525,7035765	104,1035261	0,063826751	FALSE	526,1288244	0,010157195	526,1288244	479,374309	158,2785316	0,097041904	FALSE	29,4%	531,0339433	139,9526502	0,085806152	FALSE	32,6%
667	2	1631,032826	Empty	730,0024673	547,9175694	104,1035261	0,063826751	FALSE	549,3132264	0,010157195	549,3132264	493,7425639	158,2785316	0,097041904	FALSE	30,3%	512,0684453	139,9526502	0,085806152	FALSE	31,4%
667	3	1631,032826	Empty	742,7131396	557,4116798	104,1035261	0,063826751	FALSE	555,5907749	0,010157195	555,5907749	657,9159529	158,2785316	0,097041904	FALSE	40,3%	587,9304372	139,9526502	0,085806152	FALSE	36,0%
668	1	1810,942461	Empty	824,8352453	605,7636413	147,9669246	0,081707137	FALSE	599,2343001	0,101559207	599,2343001	513,8289803	288,1612999	0,159122284	FALSE	28,4%	610,9203484	196,6417511	0,108585311	FALSE	33,7%
668	2	1810,942461	Empty	903,8290515	703,2323426	147,966924															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
683	1	879,8968469	Non-Empty	478,7547443	259,9237153	0	0	TRUE	262,3567951	0	272,888349	246,2870926	0	0	TRUE	28,0%	274,9677647	0	0	TRUE	31,3%
683	2	879,8968469	Non-Empty	536,9561103	314,4754616	0	0	TRUE	313,2589217	0	306,0629021	276,2277781	0	0	TRUE	31,4%	302,4645411	0	0	TRUE	34,4%
683	3	879,8968469	Non-Empty	527,9783187	305,49767	0	0	TRUE	304,2811301	0	300,9455957	357,3819761	0	0	TRUE	40,6%	302,4645411	0	0	TRUE	34,4%
684	1	1192,173049	Non-Empty	631,4163198	372,02673	0	0	TRUE	370,6623361	0	382,8394361	333,6335123	0	0	TRUE	28,0%	420,7669584	0	0	TRUE	35,3%
684	2	1192,173049	Non-Empty	686,6828032	431,5461619	0	0	TRUE	434,4347164	0	416,3485309	362,8357207	0	0	TRUE	30,4%	392,7158278	0	0	TRUE	32,9%
684	3	1192,173049	Non-Empty	648,1495131	388,6001568	0	0	TRUE	387,0759962	0	392,9850818	495,7038156	0	0	TRUE	41,6%	378,6902625	0	0	TRUE	31,8%
685	1	1163,070668	Non-Empty	819,949071	396,0614226	0	0	TRUE	392,6052496	0	393,3643147	362,0359771	0	0	TRUE	31,1%	352,8416635	0	0	TRUE	30,3%
685	2	1163,070668	Non-Empty	803,700483	391,4324983	0	0	TRUE	399,5959889	0	385,5691785	354,8616614	0	0	TRUE	30,5%	339,7734537	0	0	TRUE	29,2%
685	3	1163,070668	Non-Empty	800,7155408	375,5767476	0	0	TRUE	370,8694299	0	384,1371752	446,17303	0	0	TRUE	38,4%	470,4555513	0	0	TRUE	40,4%
686	1	706,3881986	Non-Empty	511,614634	272,7480524	0	0	TRUE	272,5623637	0	254,0710732	239,1686525	0	0	TRUE	33,9%	275,4913975	0	0	TRUE	39,0%
686	2	706,3881986	Non-Empty	397,4161096	181,5552057	0	0	TRUE	204,3751946	0	197,3593615	185,7833398	0	0	TRUE	26,3%	204,8525776	0	0	TRUE	29,0%
686	3	706,3881986	Non-Empty	513,4001339	252,0849406	0	0	TRUE	229,4506402	0	254,9577638	281,4362063	0	0	TRUE	39,8%	226,0442236	0	0	TRUE	32,0%
687	1	1378,192721	Empty	597,4649819	455,4413036	81,10636433	0,058849799	FALSE	454,1566316	0,019017086	454,1566316	421,3182799	111,1148267	0,080623577	FALSE	30,6%	515,0821282	111,4693767	0,080880834	FALSE	37,4%
687	2	1378,192721	Empty	558,06401	420,1548931	81,10636433	0,058849799	FALSE	422,9847824	0,019017086	422,9847824	393,5336395	111,1148267	0,080623577	FALSE	28,6%	389,7918808	111,4693767	0,080880834	FALSE	28,3%
687	3	1378,192721	Empty	644,8807481	502,5965246	81,10636433	0,058849799	FALSE	501,0513074	0,019017086	501,0513074	563,3408018	111,1148267	0,080623577	FALSE	40,9%	473,3187124	111,4693767	0,080880834	FALSE	34,3%
688	1	1699,666258	Empty	740,3573529	570,5054215	137,4009427	0,080839954	FALSE	580,8250523	0,038880575	580,8250523	496,9799534	210,9264107	0,124098722	FALSE	29,2%	474,3254674	233,5808968	0,137427507	FALSE	27,9%
688	2	1699,666258	Empty	766,1373884	578,8708853	137,4009427	0,080839954	FALSE	571,7759445	0,038880575	571,7759445	514,2853274	210,9264107	0,124098722	FALSE	30,3%	592,9068342	233,5808968	0,137427507	FALSE	34,9%
688	3	1699,666258	Empty	733,6862034	550,2899512	137,4009427	0,080839954	FALSE	547,0652613	0,038880575	547,0652613	688,4009772	210,9264107	0,124098722	FALSE	40,5%	632,4339565	233,5808968	0,137427507	FALSE	37,2%
689	1	766,8226828	Non-Empty	539,1178011	261,1190338	0	0	TRUE	257,212436	0	260,1522679	247,72873	0	0	TRUE	32,3%	215,6688795	0	0	TRUE	28,1%
689	2	766,8226828	Non-Empty	516,0932789	236,9137154	0	0	TRUE	231,8263216	0	249,0417431	237,1487869	0	0	TRUE	30,9%	295,5462423	0	0	TRUE	38,5%
689	3	766,8226828	Non-Empty	533,8881118	268,7899336	0	0	TRUE	277,7839251	0	257,6286718	281,9451659	0	0	TRUE	36,8%	255,6075609	0	0	TRUE	33,3%
690	1	891,8222269	Non-Empty	725,2367105	349,8606288	0	0	TRUE	328,10741	0	331,2261281	312,5743325	0	0	TRUE	35,0%	354,7020221	0	0	TRUE	39,8%
690	2	891,8222269	Non-Empty	573,7055225	240,9305341	0	0	TRUE	261,7784085	0	262,019636	247,2649525	0	0	TRUE	27,7%	253,3585872	0	0	TRUE	28,4%
690	3	891,8222269	Non-Empty	653,7485824	301,0310639	0	0	TRUE	301,9364083	0	298,5764628	331,9829418	0	0	TRUE	37,2%	283,7616176	0	0	TRUE	31,8%
691	1	757,2661035	Non-Empty	407,8396058	218,1799551	0	0	TRUE	225,3704936	0	229,1432624	214,31868	0	0	TRUE	28,3%	233,6246489	0	0	TRUE	30,9%
691	2	757,2661035	Non-Empty	452,6764543	256,7345039	0	0	TRUE	257,6427427	0	254,3346897	237,8803303	0	0	TRUE	31,4%	249,7366937	0	0	TRUE	33,0%
691	3	757,2661035	Non-Empty	487,3006108	282,3516444	0	0	TRUE	274,2528671	0	273,7881514	305,0670932	0	0	TRUE	40,3%	273,9047608	0	0	TRUE	36,2%
692	1	1567,204608	Empty	704,0657686	509,549188	107,8629462	0,068825057	FALSE	496,2191268	0,081652175	496,2191268	475,1373556	135,5425675	0,086486836	FALSE	30,3%	378,8846305	210,0900129	0,134053979	FALSE	24,2%
692	2	1567,204608	Empty	699,7597649	516,7958771	107,8629462	0,068825057	FALSE	515,0185087	0,081652175	515,0185087	472,2314577	135,5425675	0,086486836	FALSE	30,1%	602,771003	210,0900129	0,134053979	FALSE	38,5%
692	3	1567,204608	Empty	706,9386326	540,8595428	107,8629462	0,068825057	FALSE	555,9669724	0,081652175	555,9669724	619,8357946	135,5425675	0,086486836	FALSE	39,6%	585,5489744	210,0900129	0,134053979	FALSE	37,4%
693	1	1221,751493	Empty	586,6740372	432,6926978	64,32389538	0,052648919	FALSE	417,8809791	0,180691389	417,8809791	369,7041855	76,07183096	0,06226457	FALSE	30,3%	378,1611765	67,61483992	0,055342547	FALSE	31,0%
693	2	1221,751493	Empty	572,2549281	411,468168	64,32389538	0,052648919	FALSE	389,8510286	0,180691389	389,8510286	360,6177002	76,07183096	0,06226457	FALSE	29,5%	407,2504978	67,61483992	0,055342547	FALSE	33,3%
693	3	1221,751493	Empty	480,3313903	377,5906276	64,32389538	0,052648919	FALSE	414,0194857	0,180691389	414,0194857	491,4296077	76,07183096	0,06226457	FALSE	40,2%	436,3398191	67,61483992	0,055342547	FALSE	35,7%
694	1	1683,656847	Empty	721,3014736	564,0741777	157,2272959	0,093384407	FALSE	582,1802151	0,08237325	582,1802151	501,6391764	219,6622972	0,13046738	FALSE	29,8%	533,4358328	187,8656408	0,111581906	FALSE	31,7%
694	2	1683,656847	Empty	728,5405198	540,6089818	157,2272959	0,093384407	FALSE	528,0107772	0,08237325	528,0107772	506,6736721	219,6622972	0,13046738	FALSE	30,1%	583,4454421	187,8656408	0,111581906	FALSE	34,7%
694	3	1683,656847	Empty	759,8148538	578,9736877	157,2272959	0,093384407	FALSE	573,4658549	0,08237325	573,4658549	675,3439988	219,6622972	0,13046738	FALSE	40,1%	566,7755723	187,8656408	0,111581906	FALSE	33,7%
695	1	1804,755112	Empty	829,9624045	594,6304575	213,1914411	0,118127628	FALSE	579,9126107	0,070970448	579,9126107	572,4464194	227,8685742	0,126260107	FALSE	31,7%	451,188778	326,4173992	0,180865203	FALSE	25,0%
695	2	1804,755112	Empty	813,3099717	591,9158436	213,1914411	0,118127628	FALSE	591,1358158	0,070970448	591,1358158	560,9608081	227,8685742	0,126260107	FALSE	31,1%	685,8069425	326,4173992	0,180865203	FALSE	38,0%
695	3	1804,755112	Empty	823,3250363	618,2088107	213,1914411	0,118127628	FALSE	633,7066854	0,070970448	633,7066854	671,3478844	227,8685742	0,126260107	FALSE	37,2%	667,7593914	326,4173992	0,180865203	FALSE	37,0%
696	1	811,2851621	Non-Empty	351,6083099	222,575751	0	0	TRUE	252,750871	0	220,8103273	191,1448836	0	0	TRUE	23,6%	292,4400003	0	0	TRUE	36,0%
696	2	811,2851621	Non-Empty	489,4482799	313,4889672	0	0	TRUE	298,2100076	0	307,3739495	266,0788492	0	0	TRUE	32,8%	245,2722583	0	0	TRUE	30,2%
696	3	811,2851621	Non-Empty	450,7969577	275,220444	0	0	TRUE	260,3242835	0	283,1008852	354,0614293	0	0	TRUE	43,6%	273,5729035	0	0	TRUE	33,7%
697	1	1670,400439	Empty	709,8053938	533,8216559	185,0602996	0,110787986	FALSE	545,0580308	0,033689647	545,0580308	496,2710407	222,6109148	0,133267994	FALSE	29,7%	470,3069196	248,5750359	0,148811644	FALSE	28,2%
697	2	1670,400439	Empty	754,2906154	560,4384274	185,0602996	0,110787986	FALSE	553,8063522	0,033689647	553,8063522	527,735477	222,6109148	0,133267994	FALSE	31,6%	583,8292795	248,5750359	0,148811644	FALSE	35,0%
697	3	1670,400439	Empty	767,9647678	576,1403552	185,0602996	0,110787986	FALSE	571,5360555	0,033689647	571,5360555	646,7558502	222,6109148	0,133267994	FALSE	38,7%	616,2642395	248,5750359	0,148811644	FALSE	36,9%
698	1	1100,052165	Non-Empty	600,6387738	368,1712247	0	0	TRUE	415,4415369	0	340,713284	303,0121728	0	0	TRUE	27,5%	388,2537055	0	0	TRUE	35,3%
698	2	1100,052165	Non-Empty	668,9993844	372,5065491	0	0	TRUE	355,746675	0	379,4940432	337,501706	0	0	TRUE	30,7%	323,5447545	0	0	TRUE	29,4%
698	3	1100,052165	Non-Empty	669,6177191	359,3743917	0	0	TRUE	328,8639536	0	379,8448382	459,5382867	0	0	TRUE	41,8%	388,2537055	0	0	TRUE	35,3%
699	1	776,5748431	Non-Empty	500,0980257	230,5094697	0	0	TRUE	210,6658693	0	254,5294759	241,2017485	0	0	TRUE	31,1%	284,1127475	0	0	TRUE	36,6%
699	2	776,5748431	Non-Empty	505,893409	259,403777	0	0	TRUE	262,6591005	0	257,4790894	243,9969137									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
714	1	1162,604671	Non-Empty	757,3124604	364,2695268	0	0	TRUE	355,8653143	0	380,0764452	344,7317502	0	0	TRUE	29,7%	334,0818021	0	0	TRUE	28,7%
714	2	1162,604671	Non-Empty	795,5699948	427,605961	0	0	TRUE	444,2806482	0	399,2769582	362,1467374	0	0	TRUE	31,1%	467,7145229	0	0	TRUE	40,2%
714	3	1162,604671	Non-Empty	763,6383792	370,7291835	0	0	TRUE	362,4587088	0	383,2512679	455,7261837	0	0	TRUE	39,2%	360,8083463	0	0	TRUE	31,0%
715	1	1287,833159	Non-Empty	808,1662122	421,3289021	0	0	TRUE	417,9388876	0	426,8698853	409,2408664	0	0	TRUE	31,8%	424,5603821	0	0	TRUE	33,0%
715	2	1287,833159	Non-Empty	745,9360783	369,2694117	0	0	TRUE	376,0498406	0	394,0001987	377,7286434	0	0	TRUE	29,3%	367,9523312	0	0	TRUE	28,6%
715	3	1287,833159	Non-Empty	884,0721555	497,2348454	0	0	TRUE	493,8446309	0	466,9630751	500,8636494	0	0	TRUE	38,9%	495,3204458	0	0	TRUE	38,5%
716	1	1544,351822	Empty	707,482442	527,927473	115,9831581	0,075101513	FALSE	508,333227	0,116811771	508,333227	477,9486174	132,1470637	0,085567979	FALSE	30,9%	535,1714235	108,5423025	0,070283404	FALSE	34,7%
716	2	1544,351822	Empty	666,7098963	499,8869041	115,9831581	0,075101513	FALSE	493,0246348	0,116811771	493,0246348	450,4042139	132,1470637	0,085567979	FALSE	29,2%	474,0089751	108,5423025	0,070283404	FALSE	30,7%
716	3	1544,351822	Empty	650,0416527	516,5374451	115,9831581	0,075101513	FALSE	542,9939604	0,116811771	542,9939604	615,998991	132,1470637	0,085567979	FALSE	39,9%	535,1714235	108,5423025	0,070283404	FALSE	34,7%
717	1	1022,36501	Non-Empty	625,9272807	301,1091167	0	0	TRUE	301,4299345	0	320,3183154	304,4489828	0	0	TRUE	29,8%	319,4890655	0	0	TRUE	31,3%
717	2	1022,36501	Non-Empty	674,8540008	346,397668	0	0	TRUE	343,080317	0	345,3565667	328,2467796	0	0	TRUE	32,1%	308,83943	0	0	TRUE	30,2%
717	3	1022,36501	Non-Empty	697,0006737	374,8582251	0	0	TRUE	377,8547582	0	356,6901276	389,6692474	0	0	TRUE	38,1%	394,0365142	0	0	TRUE	38,5%
718	1	906,3017202	Non-Empty	516,1383535	268,6642052	0	0	TRUE	245,8630822	0	296,0013428	273,8365694	0	0	TRUE	30,2%	268,9027082	0	0	TRUE	29,7%
718	2	906,3017202	Non-Empty	509,4992834	305,664614	0	0	TRUE	326,5029698	0	292,1938876	270,3142189	0	0	TRUE	29,8%	298,7807869	0	0	TRUE	33,0%
718	3	906,3017202	Non-Empty	554,6831591	331,972901	0	0	TRUE	333,9356682	0	318,1064899	362,1509319	0	0	TRUE	40,0%	338,6182251	0	0	TRUE	37,4%
719	1	1335,180359	Non-Empty	685,9097322	453,9977217	0	0	TRUE	471,4972284	0	439,5731248	373,0009197	0	0	TRUE	27,9%	435,0587687	0	0	TRUE	32,6%
719	2	1335,180359	Non-Empty	745,4945855	467,4388496	0	0	TRUE	438,7946308	0	477,758762	405,4034416	0	0	TRUE	30,4%	450,0607952	0	0	TRUE	33,7%
719	3	1335,180359	Non-Empty	652,0105928	413,7437877	0	0	TRUE	424,8884997	0	417,8484722	556,7759977	0	0	TRUE	41,7%	450,0607952	0	0	TRUE	33,7%
720	1	1795,557764	Empty	791,957267	607,5595398	139,6624695	0,07778222	FALSE	609,4662242	0,012451934	609,4662242	546,1135861	200,7055151	0,111778924	FALSE	30,4%	648,9967822	181,9269054	0,101320553	FALSE	36,1%
720	2	1795,557764	Empty	760,7388602	576,7440411	139,6624695	0,07778222	FALSE	579,0536336	0,012451934	579,0536336	524,5861669	200,7055151	0,111778924	FALSE	29,2%	584,097104	181,9269054	0,101320553	FALSE	32,5%
720	3	1795,557764	Empty	801,7748716	611,2541831	139,6624695	0,07778222	FALSE	607,0379063	0,012451934	607,0379063	724,8580111	200,7055151	0,111778924	FALSE	40,4%	562,4638779	181,9269054	0,101320553	FALSE	31,3%
721	1	1332,683784	Empty	622,5630159	456,5475465	65,94309624	0,049481428	FALSE	447,9182451	0,08315425	447,9182451	385,3141613	162,0394982	0,121588857	FALSE	28,9%	402,9043998	100,1835421	0,075174279	FALSE	30,2%
721	2	1332,683784	Empty	636,891391	490,2786227	65,94309624	0,049481428	FALSE	501,0520222	0,08315425	501,0520222	394,1822207	162,0394982	0,121588857	FALSE	29,6%	542,3713074	100,1835421	0,075174279	FALSE	40,7%
721	3	1332,683784	Empty	545,3878807	385,8576146	65,94309624	0,049481428	FALSE	383,7135164	0,08315425	383,7135164	553,1874018	162,0394982	0,121588857	FALSE	41,5%	387,4080767	100,1835421	0,075174279	FALSE	29,1%
722	1	859,1174736	Non-Empty	474,8221833	296,8347398	0	0	TRUE	286,6131911	0	299,415367	249,0573468	0	0	TRUE	29,0%	210,2095946	0	0	TRUE	24,5%
722	2	859,1174736	Non-Empty	469,5761329	311,9353306	0	0	TRUE	322,0604231	0	296,1072905	246,3056485	0	0	TRUE	28,7%	319,8841657	0	0	TRUE	37,2%
722	3	859,1174736	Non-Empty	418,016842	250,3474033	0	0	TRUE	250,4438595	0	263,5948162	363,7544784	0	0	TRUE	42,3%	329,0237133	0	0	TRUE	38,3%
723	1	1886,026364	Empty	847,4500888	631,5968895	246,2626497	0,13057222	FALSE	624,8796431	0,095982038	624,8796431	593,1388628	304,0568562	0,161215592	FALSE	31,4%	690,0096455	264,171447	0,140067738	FALSE	36,6%
723	2	1886,026364	Empty	797,4209304	615,9171569	246,2626497	0,13057222	FALSE	643,5493283	0,095982038	643,5493283	558,1229503	304,0568562	0,161215592	FALSE	29,6%	598,0083595	264,171447	0,140067738	FALSE	31,7%
723	3	1886,026364	Empty	868,5631802	638,5123142	246,2626497	0,13057222	FALSE	617,5973931	0,095982038	617,5973931	734,7645514	304,0568562	0,161215592	FALSE	39,0%	598,0083595	264,171447	0,140067738	FALSE	31,7%
724	1	1035,972619	Empty	464,3009388	341,573919	51,50266226	0,049714308	FALSE	355,3074614	0,129405354	355,3074614	292,6424287	100,2306381	0,096750277	FALSE	28,2%	287,770172	105,1028949	0,101453352	FALSE	27,8%
724	2	1035,972619	Empty	526,7067581	362,5755966	51,50266226	0,049714308	FALSE	334,9049973	0,129405354	334,9049973	331,9759493	100,2306381	0,096750277	FALSE	32,0%	379,856627	105,1028949	0,101453352	FALSE	36,7%
724	3	1035,972619	Empty	454,3466088	331,8231034	51,50266226	0,049714308	FALSE	345,7601603	0,129405354	345,7601603	411,354241	100,2306381	0,096750277	FALSE	39,7%	368,3458201	105,1028949	0,101453352	FALSE	35,6%
725	1	1058,745307	Non-Empty	652,0358573	337,0817677	0	0	TRUE	325,4697167	0	350,6450246	331,4928998	0	0	TRUE	31,3%	318,899189	0	0	TRUE	30,1%
725	2	1058,745307	Non-Empty	608,6742544	319,068586	0	0	TRUE	332,8049564	0	327,3264752	309,4480016	0	0	TRUE	29,2%	446,4588645	0	0	TRUE	42,2%
725	3	1058,745307	Non-Empty	708,0613116	402,5949536	0	0	TRUE	400,4706342	0	380,7738075	417,804407	0	0	TRUE	39,5%	293,3872538	0	0	TRUE	27,7%
726	1	1243,899677	Non-Empty	663,7882425	416,2528679	0	0	TRUE	398,4617272	0	427,1233515	364,2800329	0	0	TRUE	29,3%	452,3271552	0	0	TRUE	36,4%
726	2	1243,899677	Non-Empty	615,1453798	420,9834272	0	0	TRUE	456,5657086	0	395,823456	337,5853395	0	0	TRUE	27,1%	367,5158136	0	0	TRUE	29,5%
726	3	1243,899677	Non-Empty	654,1987565	406,6633818	0	0	TRUE	388,8722411	0	420,9528694	542,0343045	0	0	TRUE	43,6%	424,056708	0	0	TRUE	34,1%
727	1	1265,382507	Non-Empty	736,0346754	403,5189324	0	0	TRUE	415,0261914	0	407,3053535	369,5124549	0	0	TRUE	29,2%	373,8630136	0	0	TRUE	29,5%
727	2	1265,382507	Non-Empty	768,5893662	428,8202583	0	0	TRUE	429,4741525	0	425,3204013	385,855929	0	0	TRUE	30,5%	503,2771337	0	0	TRUE	39,8%
727	3	1265,382507	Non-Empty	782,0274721	431,2433168	0	0	TRUE	420,8821636	0	432,7567527	510,0141236	0	0	TRUE	40,3%	388,2423603	0	0	TRUE	30,7%
728	1	1009,421785	Non-Empty	623,2782536	327,7501772	0	0	TRUE	299,8637717	0	347,1469413	322,0787933	0	0	TRUE	31,9%	276,3892982	0	0	TRUE	27,4%
728	2	1009,421785	Non-Empty	557,400325	312,9808961	0	0	TRUE	336,2031381	0	310,4549481	288,0363995	0	0	TRUE	28,5%	396,5585583	0	0	TRUE	39,3%
728	3	1009,421785	Non-Empty	631,6682188	368,6907115	0	0	TRUE	373,3548751	0	351,8198955	399,306592	0	0	TRUE	39,6%	336,4739283	0	0	TRUE	33,3%
729	1	1324,658539	Empty	638,6327944	466,2941518	88,28633692	0,066648373	FALSE	457,13653	0,055024198	457,13653	429,496596	119,4289586	0,090158297	FALSE	32,4%	408,8452281	117,8048838	0,088932265	FALSE	30,9%
729	2	1324,658539	Empty	533,0376823	389,6238524	88,28633692	0,066648373	FALSE	409,3910432	0,055024198	409,3910432	358,4812307	119,4289586	0,090158297	FALSE	27,1%	506,9680829	117,8048838	0,088932265	FALSE	38,3%
729	3	1324,658539	Empty	642,5311246	468,7405349	88,28633692	0,066648373	FALSE	458,1309659	0,055024198	458,1309659	536,6807124	119,4289586	0,090158297	FALSE	40,5%	408,8452281	117,8048838	0,088932265	FALSE	30,9%
730	1	1176,591852	Non-Empty	820,4216002	394,180139	0	0	TRUE	383,4617312	0	398,3645185	368,619565	0	0	TRUE	31,3%	415,2677125	0	0	TRUE	35,3%
730	2	1176,591852	Non-Empty	801,0773198	405,4256572	0	0	TRUE	425,2970482	0	388,9716954	359,9280822	0	0	TRUE	30,6%	332,21417	0	0	TRUE	28,2%
730	3	1176,591852	Non-Empty	801,6620924	376,9860558	0	0	TRUE	367,8330726	0	389,255638	448,0442048									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
745	1	1473,573686	Empty	596,5938451	439,1323499	116,2293436	0,078875827	FALSE	440,3565265	0,233274752	440,3565265	429,3143222	117,702553	0,07987558	FALSE	29,1%	580,023685	308,8657122	0,209603168	FALSE	39,4%
745	2	1473,573686	Empty	662,6718133	465,5733882	116,2293436	0,078875827	FALSE	427,1606349	0,233274752	427,1606349	476,8646252	117,702553	0,07987558	FALSE	32,4%	517,3184217	308,8657122	0,209603168	FALSE	35,1%
745	3	1473,573686	Empty	690,3650432	568,8679481	116,2293436	0,078875827	FALSE	606,0565248	0,233274752	606,0565248	567,3947387	117,702553	0,07987558	FALSE	38,5%	376,2315794	308,8657122	0,209603168	FALSE	25,5%
746	1	1253,544965	Empty	529,5909472	366,8965046	82,08291444	0,06548063	FALSE	354,4801601	0,145489378	354,4801601	378,9279282	93,53532052	0,074616646	FALSE	30,2%	397,4654766	88,16753563	0,070334562	FALSE	31,7%
746	2	1253,544965	Empty	546,1785624	391,3755599	82,08291444	0,06548063	FALSE	386,8506555	0,145489378	386,8506555	390,7965424	93,53532052	0,074616646	FALSE	31,2%	366,8912091	88,16753563	0,070334562	FALSE	29,3%
746	3	1253,544965	Empty	628,6097493	495,2729	82,08291444	0,06548063	FALSE	512,2141489	0,145489378	512,2141489	483,8204939	93,53532052	0,074616646	FALSE	38,6%	489,1882788	88,16753563	0,070334562	FALSE	39,0%
747	1	1127,204495	Non-Empty	596,5515566	381,0925672	0	0	TRUE	389,8766726	0	373,5890752	324,0426043	0	0	TRUE	28,7%	363,9931181	0	0	TRUE	32,3%
747	2	1127,204495	Non-Empty	596,5212609	370,7603821	0	0	TRUE	369,242598	0	373,5701026	324,0261479	0	0	TRUE	28,7%	328,7679776	0	0	TRUE	29,2%
747	3	1127,204495	Non-Empty	606,8609614	375,3515454	0	0	TRUE	368,0852241	0	380,0453169	479,1357425	0	0	TRUE	42,5%	434,443399	0	0	TRUE	38,5%
748	1	1716,017027	Empty	671,6675993	506,371097	206,3670978	0,120259353	FALSE	508,3423647	0,032475773	508,3423647	491,8952662	246,6718793	0,143746755	FALSE	28,7%	540,9184106	267,2062846	0,155713073	FALSE	31,5%
748	2	1716,017027	Empty	763,6076412	599,5322689	206,3670978	0,120259353	FALSE	602,7246668	0,032475773	602,7246668	559,2274875	246,6718793	0,143746755	FALSE	32,6%	634,1802055	267,2062846	0,155713073	FALSE	37,0%
748	3	1716,017027	Empty	782,5450965	610,1136608	206,3670978	0,120259353	FALSE	604,9499952	0,032475773	604,9499952	664,894273	246,6718793	0,143746755	FALSE	38,7%	540,9184106	267,2062846	0,155713073	FALSE	31,5%
749	1	1415,786493	Empty	658,6658609	477,2269608	108,3721773	0,076545565	FALSE	483,4827415	0,035168434	483,4827415	435,396602	150,2025362	0,106091234	FALSE	30,8%	482,3008931	124,315909	0,087806961	FALSE	34,1%
749	2	1415,786493	Empty	642,8431788	457,0340152	108,3721773	0,076545565	FALSE	458,9195324	0,035168434	458,9195324	424,9373655	150,2025362	0,106091234	FALSE	30,0%	482,3008931	124,315909	0,087806961	FALSE	34,1%
749	3	1415,786493	Empty	677,3614951	481,5255165	108,3721773	0,076545565	FALSE	473,3842187	0,035168434	473,3842187	555,4525251	150,2025362	0,106091234	FALSE	39,2%	451,1847064	124,315909	0,087806961	FALSE	31,9%
750	1	945,5075771	Non-Empty	727,3860701	386,752653	0	0	TRUE	384,541514	0	350,7537822	316,581523	0	0	TRUE	33,5%	329,3340999	0	0	TRUE	34,8%
750	2	945,5075771	Non-Empty	615,9589398	275,3255227	0	0	TRUE	273,1143836	0	297,0223609	268,0848965	0	0	TRUE	28,4%	265,5920161	0	0	TRUE	28,1%
750	3	945,5075771	Non-Empty	617,4294015	283,4294015	0	0	TRUE	287,8516795	0	297,7314341	360,8411576	0	0	TRUE	38,2%	350,5814612	0	0	TRUE	37,1%
751	1	1298,256343	Non-Empty	825,7826667	411,4760478	0	0	TRUE	400,1943437	0	427,571917	392,5544074	0	0	TRUE	30,2%	391,0410673	0	0	TRUE	30,1%
751	2	1298,256343	Non-Empty	843,7102021	450,3306327	0	0	TRUE	459,9759781	0	436,8597858	401,0766655	0	0	TRUE	30,9%	437,9659954	0	0	TRUE	33,7%
751	3	1298,256343	Non-Empty	837,8382188	436,4496628	0	0	TRUE	438,0860216	0	433,8193658	504,6252704	0	0	TRUE	38,9%	469,2492807	0	0	TRUE	36,1%
752	1	1189,108155	Non-Empty	662,404298	345,3335693	0	0	TRUE	340,1807851	0	370,6924764	325,8359042	0	0	TRUE	27,4%	331,8441361	0	0	TRUE	27,9%
752	2	1189,108155	Non-Empty	782,8821677	467,7509558	0	0	TRUE	464,5376884	0	438,1138987	385,0988283	0	0	TRUE	32,4%	400,9783312	0	0	TRUE	33,7%
752	3	1189,108155	Non-Empty	679,5755222	376,0236294	0	0	TRUE	384,3896811	0	380,3017794	478,1734219	0	0	TRUE	40,2%	456,2856872	0	0	TRUE	38,4%
753	1	1333,887543	Non-Empty	652,9539775	337,6206442	0	0	TRUE	337,6206442	0	382,0219903	352,3121131	0	0	TRUE	26,4%	466,8606402	0,842379714	0,000631522	FALSE	35,0%
753	2	1333,887543	Non-Empty	819,6193004	504,2859671	0	0	TRUE	504,2859671	0	479,5324131	442,2391434	0	0	TRUE	33,2%	533,5550174	0,842379714	0,000631522	FALSE	40,0%
753	3	1333,887543	Non-Empty	807,3142656	491,9809323	0	0	TRUE	491,9809323	0	472,3331401	539,3362869	0	0	TRUE	40,4%	333,4718859	0,842379714	0,000631522	FALSE	25,0%
754	1	1141,828682	Empty	499,4564328	416,2547094	138,0044812	0,120862686	FALSE	410,353388	0,073327669	410,353388	358,8059984	177,7492281	0,155670663	FALSE	31,4%	363,8794702	172,6757563	0,151227377	FALSE	31,9%
754	2	1141,828682	Empty	447,4578805	364,2561571	138,0044812	0,120862686	FALSE	358,3548357	0,073327669	358,3548357	321,4506031	177,7492281	0,155670663	FALSE	28,2%	414,069742	172,6757563	0,151227377	FALSE	36,3%
754	3	1141,828682	Empty	426,8155754	361,317816	138,0044812	0,120862686	FALSE	373,1204587	0,073327669	373,1204587	461,5720809	177,7492281	0,155670663	FALSE	40,4%	363,8794702	172,6757563	0,151227377	FALSE	31,9%
755	1	1143,301484	Non-Empty	645,9724041	389,4938543	0	0	TRUE	388,2322266	0	386,8884903	353,128501	0	0	TRUE	30,9%	385,6920668	0	0	TRUE	33,7%
755	2	1143,301484	Non-Empty	589,2392927	336,5726261	0	0	TRUE	339,1138815	0	352,9096583	322,1146707	0	0	TRUE	28,2%	399,4667835	0	0	TRUE	34,9%
755	3	1143,301484	Non-Empty	673,7135531	417,2350033	0	0	TRUE	415,9643756	0	403,5033351	468,058312	0	0	TRUE	40,9%	358,1426335	0	0	TRUE	31,3%
756	1	1176,370791	Non-Empty	674,7203165	403,4425851	0	0	TRUE	405,7498145	0	397,4318106	364,9490075	0	0	TRUE	31,0%	444,4067432	0	0	TRUE	37,8%
756	2	1176,370791	Non-Empty	600,6655188	347,3785601	0	0	TRUE	360,3965622	0	353,8111702	324,893559	0	0	TRUE	27,6%	392,1235969	0	0	TRUE	33,3%
756	3	1176,370791	Non-Empty	721,7398378	429,1896455	0	0	TRUE	410,2244141	0	425,12781	486,5282243	0	0	TRUE	41,4%	339,8404507	0	0	TRUE	28,9%
757	1	1852,049827	Empty	862,303711	628,5142253	150,0657207	0,081026827	FALSE	627,1534863	0,064260745	627,1534863	569,7852041	213,7028716	0,115387215	FALSE	30,8%	699,663268	221,9818997	0,119857412	FALSE	37,8%
757	2	1852,049827	Empty	822,245108	606,9527957	150,0657207	0,081026827	FALSE	624,0892301	0,064260745	624,0892301	543,3156447	213,7028716	0,115387215	FALSE	29,3%	535,0366167	221,9818997	0,119857412	FALSE	28,9%
757	3	1852,049827	Empty	864,7872483	616,582806	150,0657207	0,081026827	FALSE	600,8071105	0,064260745	600,8071105	738,9489781	213,7028716	0,115387215	FALSE	39,9%	617,3499423	221,9818997	0,119857412	FALSE	33,3%
758	1	1082,481141	Non-Empty	722,7314222	363,1758443	0	0	TRUE	354,7557348	0	366,2847963	346,8482295	0	0	TRUE	32,0%	334,7879818	0	0	TRUE	30,9%
758	2	1082,481141	Non-Empty	648,5003451	319,3115412	0	0	TRUE	341,2582057	0	328,664023	311,2237681	0	0	TRUE	28,8%	323,6283825	0	0	TRUE	29,9%
758	3	1082,481141	Non-Empty	764,655779	399,9937558	0	0	TRUE	386,4672008	0	387,532322	424,4091437	0	0	TRUE	39,2%	424,064777	0	0	TRUE	39,2%
759	1	1049,297459	Non-Empty	763,3329784	359,1892028	0	0	TRUE	337,7447559	0	364,5057863	313,5046364	0	0	TRUE	29,9%	335,7751869	0	0	TRUE	32,0%
759	2	1049,297459	Non-Empty	771,1678571	396,1795818	0	0	TRUE	403,8906353	0	368,2470876	316,7224599	0	0	TRUE	30,2%	349,7658197	0	0	TRUE	33,3%
759	3	1049,297459	Non-Empty	662,8946099	293,9286746	0	0	TRUE	307,662068	0	316,5448553	419,0703629	0	0	TRUE	39,9%	363,7564525	0	0	TRUE	34,7%
760	1	1342,203935	Non-Empty	830,3550048	460,2204994	0	0	TRUE	442,2990355	0	464,6013629	403,234037	0	0	TRUE	30,0%	343,7351541	0	0	TRUE	25,6%
760	2	1342,203935	Non-Empty	804,7660466	470,9628228	0	0	TRUE	489,3726405	0	450,2837942	390,8076183	0	0	TRUE	29,1%	605,6286049	0	0	TRUE	45,1%
760	3	1342,203935	Non-Empty	763,7220083	411,020613	0	0	TRUE	410,5322592	0	427,318778	548,1622799	0	0	TRUE	40,8%	392,8401762	0	0	TRUE	29,3%
761	1	1149,248037	Non-Empty	765,4003311	369,7872599	0	0	TRUE	355,2757448	0	383,6923033	367,7857637	0	0	TRUE	32,0%	316,6295611	0	0	TRUE	27,6%
761	2	1149,248037	Non-Empty	725,6526363	347,373406	0	0	TRUE	350,195601	0	363,7669335	348,6864301	0	0	TRUE	30,3%	386,9916858	0	0	TRUE	33,7%
761	3	1149,248037	Non-Empty	801,4997375	432,087436	0															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
776	1	1071,506187	Non-Empty	642,959723	348,4346316	0	0	TRUE	365,9367934	0	343,165699	306,6280256	0	0	TRUE	28,6%	420,464453	0	0	TRUE	39,2%
776	2	1071,506187	Non-Empty	705,1626075	385,9801823	0	0	TRUE	378,8250104	0	376,3651291	336,2926328	0	0	TRUE	31,4%	325,5208668	0	0	TRUE	30,4%
776	3	1071,506187	Non-Empty	659,4656157	337,0913727	0	0	TRUE	326,7443829	0	351,9753585	428,5855282	0	0	TRUE	40,0%	325,5208668	0	0	TRUE	30,4%
777	1	972,913389	Empty	415,2903729	334,0196187	75,55061123	0,077653995	FALSE	346,3222455	0,153732808	346,3222455	280,4362606	129,1339694	0,132729152	FALSE	28,8%	293,7097023	115,8605276	0,119086168	FALSE	30,2%
777	2	972,913389	Empty	408,3108685	324,4113801	75,55061123	0,077653995	FALSE	334,0852726	0,153732808	334,0852726	275,723158	129,1339694	0,132729152	FALSE	28,3%	312,0665587	115,8605276	0,119086168	FALSE	32,1%
777	3	972,913389	Empty	430,0322905	314,4823902	75,55061123	0,077653995	FALSE	292,5058709	0,153732808	292,5058709	416,7539704	129,1339694	0,132729152	FALSE	42,8%	367,1371279	115,8605276	0,119086168	FALSE	37,7%
778	1	1467,047679	Empty	715,9720194	529,3570641	105,581979	0,071969017	FALSE	520,5543799	0,017490476	520,5543799	452,111596	175,7358958	0,11978881	FALSE	30,8%	562,9369001	181,146216	0,123476707	FALSE	38,4%
778	2	1467,047679	Empty	679,6020651	503,8938051	105,581979	0,071969017	FALSE	505,9978162	0,017490476	505,9978162	429,1452263	175,7358958	0,11978881	FALSE	29,3%	545,8782061	181,146216	0,123476707	FALSE	37,2%
778	3	1467,047679	Empty	604,9104077	433,7968098	105,581979	0,071969017	FALSE	440,4954829	0,017490476	440,4954829	585,7908566	175,7358958	0,11978881	FALSE	39,9%	358,2325728	181,146216	0,123476707	FALSE	24,4%
779	1	1708,632189	Empty	722,9005744	537,4172023	111,3283547	0,065156419	FALSE	542,5104872	0,00394746	542,5104872	503,2968754	146,6099066	0,085805422	FALSE	29,5%	604,2723594	258,6097515	0,15135484	FALSE	35,4%
779	2	1708,632189	Empty	739,6507624	552,2038056	111,3283547	0,065156419	FALSE	555,3335058	0,00394746	555,3335058	514,958669	146,6099066	0,085805422	FALSE	30,1%	645,9463152	258,6097515	0,15135484	FALSE	37,8%
779	3	1708,632189	Empty	817,8108228	619,0111807	111,3283547	0,065156419	FALSE	610,7881957	0,00394746	610,7881957	690,3766442	146,6099066	0,085805422	FALSE	40,4%	458,413514	258,6097515	0,15135484	FALSE	26,8%
780	1	875,9267007	Non-Empty	537,5428547	243,5609474	0	0	TRUE	269,1226013	0	256,6548984	247,1045832	0	0	TRUE	28,2%	279,9353373	0	0	TRUE	32,0%
780	2	875,9267007	Non-Empty	650,6333534	308,336104	0	0	TRUE	285,582416	0	310,6510221	299,0914718	0	0	TRUE	34,1%	252,8448208	0	0	TRUE	28,9%
780	3	875,9267007	Non-Empty	646,3811766	324,0296493	0	0	TRUE	321,2216834	0	308,6207802	329,7306457	0	0	TRUE	37,6%	343,1465425	0	0	TRUE	39,2%
781	1	959,4712007	Non-Empty	741,3063293	307,757841	0	0	TRUE	315,2021791	0	311,6222365	307,0978314	0	0	TRUE	32,0%	344,4255592	0	0	TRUE	35,9%
781	2	959,4712007	Non-Empty	752,0483615	297,0741969	0	0	TRUE	283,0928586	0	316,1378543	311,5478876	0	0	TRUE	32,5%	258,3191694	0	0	TRUE	26,9%
781	3	959,4712007	Non-Empty	789,094989	354,6391628	0	0	TRUE	361,1761631	0	331,7111099	340,8254817	0	0	TRUE	35,5%	356,7264721	0	0	TRUE	37,2%
782	1	1454,730673	Empty	751,4498038	504,6855727	107,7178924	0,074046622	FALSE	487,8417282	0,044951414	487,8417282	460,8481998	153,4753452	0,105500866	FALSE	31,7%	512,4619418	135,0722921	0,092850377	FALSE	35,2%
782	2	1454,730673	Empty	724,7369881	498,9000992	107,7178924	0,074046622	FALSE	502,983597	0,044951414	502,983597	444,4657975	153,4753452	0,105500866	FALSE	30,6%	462,8688506	135,0722921	0,092850377	FALSE	31,8%
782	3	1454,730673	Empty	668,3050413	451,1450014	107,7178924	0,074046622	FALSE	463,9053482	0,044951414	463,9053482	549,4166761	153,4753452	0,105500866	FALSE	37,8%	479,399881	135,0722921	0,092850377	FALSE	33,0%
783	1	1003,37122	Non-Empty	726,3009389	368,8920099	0	0	TRUE	361,2289036	0	355,0357471	319,4638385	0	0	TRUE	31,8%	460,3703245	0	0	TRUE	45,9%
783	2	1003,37122	Non-Empty	672,6236276	340,1534321	0	0	TRUE	357,4290592	0	328,7968105	295,8538458	0	0	TRUE	29,5%	306,9135496	0	0	TRUE	30,6%
783	3	1003,37122	Non-Empty	653,6841215	294,325778	0	0	TRUE	284,7132572	0	319,5386623	388,0535357	0	0	TRUE	38,7%	236,0873459	0	0	TRUE	23,5%
784	1	1483,209151	Empty	656,6299357	509,5762808	145,9903233	0,098428683	FALSE	557,5654603	0,199156719	557,5654603	414,3430243	241,2235798	0,162636254	FALSE	27,9%	489,4590197	166,1075844	0,111992017	FALSE	33,0%
784	2	1483,209151	Empty	748,0844608	519,6389996	145,9903233	0,098428683	FALSE	486,2363728	0,199156719	486,2363728	472,0521576	241,2235798	0,162636254	FALSE	31,8%	578,4515688	166,1075844	0,111992017	FALSE	39,0%
784	3	1483,209151	Empty	663,6232576	453,9938704	145,9903233	0,098428683	FALSE	439,4073176	0,199156719	439,4073176	596,8139688	241,2235798	0,162636254	FALSE	40,2%	415,2985622	166,1075844	0,111992017	FALSE	28,0%
785	1	1540,412935	Empty	660,3007866	489,7800817	124,5900445	0,080880939	FALSE	482,516603	0,06216687	482,516603	448,8826206	163,2267712	0,105962997	FALSE	29,1%	571,6996461	229,321995	0,148870468	FALSE	37,1%
785	2	1540,412935	Empty	704,5875056	535,8500589	124,5900445	0,080880939	FALSE	530,3698385	0,06216687	530,3698385	478,9894126	163,2267712	0,105962997	FALSE	31,1%	412,8941889	229,321995	0,148870468	FALSE	26,8%
785	3	1540,412935	Empty	665,2963219	514,7827948	124,5900445	0,080880939	FALSE	527,526494	0,06216687	527,526494	612,5409022	163,2267712	0,105962997	FALSE	39,8%	555,8191004	229,321995	0,148870468	FALSE	36,1%
786	1	1262,784218	Non-Empty	690,197953	405,6797253	0	0	TRUE	417,5847187	0	404,9950096	369,6785554	0	0	TRUE	29,3%	444,0559887	0	0	TRUE	35,2%
786	2	1262,784218	Non-Empty	700,3163588	404,3377077	0	0	TRUE	404,7822777	0	410,9322974	375,0980986	0	0	TRUE	29,7%	430,1792391	0	0	TRUE	34,1%
786	3	1262,784218	Non-Empty	761,5395695	452,766785	0	0	TRUE	440,4172216	0	446,856911	518,007564	0	0	TRUE	41,0%	388,5489901	0	0	TRUE	30,8%
787	1	714,36912	Non-Empty	477,5052697	252,5774468	0	0	TRUE	248,1301746	0	247,9374534	229,8663366	0	0	TRUE	32,2%	192,6388638	0	0	TRUE	27,0%
787	2	714,36912	Non-Empty	430,1295745	219,7330811	0	0	TRUE	229,8171386	0	223,3383338	207,0601432	0	0	TRUE	29,0%	232,7719605	0	0	TRUE	32,6%
787	3	714,36912	Non-Empty	468,1759283	242,0585921	0	0	TRUE	236,4218068	0	243,093327	277,4426402	0	0	TRUE	38,8%	288,9582957	0	0	TRUE	40,4%
788	1	1304,863858	Empty	579,1767705	417,9134219	57,79959767	0,044295501	FALSE	397,267748	0,124770887	397,267748	385,5751698	123,0878452	0,094330029	FALSE	29,5%	439,3929317	127,0035448	0,097330878	FALSE	33,7%
788	2	1304,863858	Empty	565,8962675	442,0221922	57,79959767	0,044295501	FALSE	458,7657917	0,124770887	458,7657917	376,7339447	123,0878452	0,094330029	FALSE	28,9%	372,818245	127,0035448	0,097330878	FALSE	28,6%
788	3	1304,863858	Empty	581,643844	444,9282436	57,79959767	0,044295501	FALSE	448,8303179	0,124770887	448,8303179	542,5547432	123,0878452	0,094330029	FALSE	41,6%	492,652681	127,0035448	0,097330878	FALSE	37,8%
789	1	1262,062674	Non-Empty	732,4178632	419,9243031	0	0	TRUE	440,0232957	0	409,0365295	368,8536719	0	0	TRUE	29,2%	411,2339049	0	0	TRUE	32,6%
789	2	1262,062674	Non-Empty	761,3917149	403,8455439	0	0	TRUE	378,8919258	0	425,2176801	383,4452215	0	0	TRUE	30,4%	340,3315075	0	0	TRUE	27,0%
789	3	1262,062674	Non-Empty	766,0307541	438,2928267	0	0	TRUE	443,1474522	0	427,8084641	509,7637803	0	0	TRUE	40,4%	510,4972613	0	0	TRUE	40,4%
790	1	1093,070272	Non-Empty	632,5866792	407,7371866	0	0	TRUE	409,7324059	0	389,8624127	334,8653983	0	0	TRUE	30,6%	348,8522144	0	0	TRUE	31,9%
790	2	1093,070272	Non-Empty	585,2143375	337,9534565	0	0	TRUE	317,5372872	0	360,6668953	309,7884269	0	0	TRUE	28,3%	313,9669929	0	0	TRUE	28,7%
790	3	1093,070272	Non-Empty	555,8033903	347,3796286	0	0	TRUE	365,8005787	0	342,5409638	448,4164465	0	0	TRUE	41,0%	430,2510644	0	0	TRUE	39,4%
791	1	1356,671023	Non-Empty	822,960871	428,1933989	0	0	TRUE	427,3146066	0	439,8498464	383,9933689	0	0	TRUE	28,3%	402,9715911	0	0	TRUE	29,7%
791	2	1356,671023	Non-Empty	925,91312	529,9413248	0	0	TRUE	527,8582093	0	494,8749788	432,0308666	0	0	TRUE	31,8%	496,9982957	0	0	TRUE	36,6%
791	3	1356,671023	Non-Empty	789,4630717	398,5362998	0	0	TRUE	401,4982076	0	421,9461982	540,6467879	0	0	TRUE	39,9%	456,7011366	0	0	TRUE	33,7%
792	1	1356,250722	Empty	574,6504652	462,0566525	105,3848993	0,07770311	FALSE	491,2276614	0,156931317	491,2276614	375,2165481	192,2250037	0,141732646	FALSE	27,7%	385,4607316	181,9808202	0,134179335	FALSE	28,4%
792	2	1356,250722	Empty	640,4725403	472,845887	105,3848993	0,07770311														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
807	1	1042,492493	Non-Empty	642,8309432	321,3544199	0	0	TRUE	334,8934925	0	327,2935659	289,8675443	0	0	TRUE	27,8%	369,4910102	0	0	TRUE	35,4%
807	2	1042,492493	Non-Empty	700,1219149	376,8802106	0	0	TRUE	388,6541023	0	356,4629247	315,7013867	0	0	TRUE	30,3%	382,6871177	0	0	TRUE	36,7%
807	3	1042,492493	Non-Empty	704,5864228	344,2578625	0	0	TRUE	318,9448982	0	358,7360024	436,923562	0	0	TRUE	41,9%	290,3143651	0	0	TRUE	27,8%
808	1	1884,160805	Empty	849,9160084	656,4945789	152,5033647	0,080939676	FALSE	645,6842597	0,033674214	645,6842597	564,3364519	229,7033967	0,121912841	FALSE	30,0%	559,6517242	224,4309533	0,119114543	FALSE	29,7%
808	2	1884,160805	Empty	834,8145983	648,9088604	152,5033647	0,080939676	FALSE	645,6142327	0,033674214	645,6142327	554,3092538	229,7033967	0,121912841	FALSE	29,4%	634,2719541	224,4309533	0,119114543	FALSE	33,7%
808	3	1884,160805	Empty	747,263529	578,7573656	152,5033647	0,080939676	FALSE	592,8623125	0,033674214	592,8623125	765,5150992	229,7033967	0,121912841	FALSE	40,6%	690,2371265	224,4309533	0,119114543	FALSE	36,6%
809	1	1371,357274	Non-Empty	653,8220239	468,2580708	12,09144211	0,008817135	FALSE	457,5347505	0,041015074	458,9362473	398,4162337	77,63029526	0,056608367	FALSE	29,1%	437,6672152	41,34884623	0,030151768	FALSE	31,9%
809	2	1371,357274	Non-Empty	658,6951831	481,78568	12,09144211	0,008817135	FALSE	479,7168098	0,041015074	479,0160614	401,3857662	77,63029526	0,056608367	FALSE	29,3%	437,6672152	41,34884623	0,030151768	FALSE	31,9%
809	3	1371,357274	Non-Empty	583,3619658	421,3135235	12,09144211	0,008817135	FALSE	434,105714	0,041015074	433,4049656	571,5552744	77,63029526	0,056608367	FALSE	41,7%	496,0228439	41,34884623	0,030151768	FALSE	36,2%
810	1	1002,516603	Non-Empty	759,2003508	333,9776748	0	0	TRUE	337,5015089	0	332,543492	314,2023363	0	0	TRUE	31,3%	341,7670239	0	0	TRUE	34,1%
810	2	1002,516603	Non-Empty	744,2165272	334,5045955	0	0	TRUE	353,5391739	0	325,9803061	308,0011374	0	0	TRUE	30,7%	307,5903215	0	0	TRUE	30,7%
810	3	1002,516603	Non-Empty	785,3392554	334,0343329	0	0	TRUE	311,4759205	0	343,9928052	380,3131297	0	0	TRUE	37,9%	353,159258	0	0	TRUE	35,2%
811	1	1486,046489	Empty	635,1581791	484,4835695	122,2012081	0,082232426	FALSE	481,225165	0,035132656	481,225165	441,8799391	157,914502	0,106264846	FALSE	29,7%	477,6578	217,1873029	0,146151082	FALSE	32,1%
811	2	1486,046489	Empty	644,6385693	493,9639603	122,2012081	0,082232426	FALSE	490,7055558	0,035132656	490,7055558	448,4754528	157,914502	0,106264846	FALSE	30,2%	389,2026519	217,1873029	0,146151082	FALSE	26,2%
811	3	1486,046489	Empty	648,4983551	507,5989591	122,2012081	0,082232426	FALSE	514,1157681	0,035132656	514,1157681	595,691097	157,914502	0,106264846	FALSE	40,1%	619,186037	217,1873029	0,146151082	FALSE	41,7%
812	1	880,3722991	Non-Empty	501,1384682	297,7589281	0	0	TRUE	319,9693122	0	283,3321592	244,5471206	0	0	TRUE	27,8%	326,4301783	0	0	TRUE	37,1%
812	2	880,3722991	Non-Empty	539,7113699	307,5206243	0	0	TRUE	300,9198029	0	305,1403903	263,3700462	0	0	TRUE	29,9%	296,7547076	0	0	TRUE	33,7%
812	3	880,3722991	Non-Empty	516,2922337	275,0927467	0	0	TRUE	259,483184	0	291,8997496	372,4551323	0	0	TRUE	42,3%	257,1874132	0	0	TRUE	29,2%
813	1	1004,228348	Non-Empty	749,9214011	376,8055534	0	0	TRUE	376,6558263	0	354,7090837	326,8025047	0	0	TRUE	32,5%	311,310788	0	0	TRUE	31,0%
813	2	1004,228348	Non-Empty	682,2409962	309,1251485	0	0	TRUE	308,9754214	0	322,6965896	297,3085793	0	0	TRUE	29,6%	381,6067723	0	0	TRUE	38,0%
813	3	1004,228348	Non-Empty	690,9643131	318,2976464	0	0	TRUE	318,5971005	0	326,822675	380,1172643	0	0	TRUE	37,9%	311,310788	0	0	TRUE	31,0%
814	1	853,6173584	Non-Empty	573,8662238	306,1503184	0	0	TRUE	288,7938492	0	305,2679583	260,7403203	0	0	TRUE	30,5%	259,7965873	0	0	TRUE	30,4%
814	2	853,6173584	Non-Empty	590,9985174	324,3188911	0	0	TRUE	307,9987011	0	314,3814765	268,5245033	0	0	TRUE	31,5%	269,0750369	0	0	TRUE	31,5%
814	3	853,6173584	Non-Empty	439,830926	223,1481489	0	0	TRUE	256,824808	0	233,9679236	324,3525348	0	0	TRUE	38,0%	324,7457342	0	0	TRUE	38,0%
815	1	1289,854444	Non-Empty	627,2804504	387,9519015	0	0	TRUE	393,5290919	0	399,6403248	356,2836755	0	0	TRUE	27,6%	448,0547016	0	0	TRUE	34,7%
815	2	1289,854444	Non-Empty	678,6774725	433,2846768	0	0	TRUE	432,7976204	0	432,3853635	385,4762319	0	0	TRUE	29,9%	448,0547016	0	0	TRUE	34,7%
815	3	1289,854444	Non-Empty	718,6137389	468,6178656	0	0	TRUE	463,5277316	0	457,8287556	548,0945365	0	0	TRUE	42,5%	393,7450408	0	0	TRUE	30,5%
816	1	1486,105445	Empty	663,1991773	477,1145893	92,75767146	0,062416615	FALSE	449,5831087	0,22220668	449,5831087	445,8504947	65,37402779	0,043990168	FALSE	30,0%	489,7392943	136,8660073	0,092097104	FALSE	33,0%
816	2	1486,105445	Empty	670,9835223	492,0307873	92,75767146	0,062416615	FALSE	471,6311595	0,22220668	471,6311595	451,0836949	65,37402779	0,043990168	FALSE	30,4%	523,5144181	136,8660073	0,092097104	FALSE	35,2%
816	3	1486,105445	Empty	627,5820674	516,9600684	92,75767146	0,062416615	FALSE	564,8911767	0,22220668	564,8911767	589,1712554	65,37402779	0,043990168	FALSE	39,6%	472,8517325	136,8660073	0,092097104	FALSE	31,8%
817	1	1115,054392	Non-Empty	797,0752881	382,4271862	0	0	TRUE	357,8646569	0	388,9108564	351,0765006	0	0	TRUE	31,5%	357,3892282	0	0	TRUE	32,1%
817	2	1115,054392	Non-Empty	730,8426384	349,8259498	0	0	TRUE	358,8948337	0	356,5944656	321,9039403	0	0	TRUE	28,9%	414,5715048	0	0	TRUE	37,2%
817	3	1115,054392	Non-Empty	757,3931833	382,8012561	0	0	TRUE	398,2949015	0	369,5490701	442,0739513	0	0	TRUE	39,6%	343,0936591	0	0	TRUE	30,8%
818	1	855,1948046	Non-Empty	619,3751822	310,2861768	0	0	TRUE	293,5670158	0	305,7698503	270,5823372	0	0	TRUE	31,6%	285,0649349	0	0	TRUE	33,3%
818	2	855,1948046	Non-Empty	570,1131621	275,8710826	0	0	TRUE	273,9988475	0	281,4504378	249,0615644	0	0	TRUE	29,1%	319,2727271	0	0	TRUE	37,3%
818	3	855,1948046	Non-Empty	542,8159934	269,0375452	0	0	TRUE	287,6289413	0	267,9745165	335,550903	0	0	TRUE	39,2%	250,8571427	0	0	TRUE	29,3%
819	1	1093,524717	Non-Empty	464,5183538	351,6714717	0	0	TRUE	369,1905392	0	342,149118	293,0563806	25,44510471	0,023268888	FALSE	26,8%	423,2998904	0	0	TRUE	38,7%
819	2	1093,524717	Non-Empty	475,1531783	359,2811496	0	0	TRUE	373,7750705	0	349,9823839	299,7657025	25,44510471	0,023268888	FALSE	27,4%	340,9915784	0	0	TRUE	31,2%
819	3	1093,524717	Non-Empty	544,9510336	382,5720956	0	0	TRUE	500,5591072	0	391,3932151	500,7026338	25,44510471	0,023268888	FALSE	45,8%	329,2332481	0	0	TRUE	30,1%
820	1	1349,208765	Non-Empty	732,3740382	417,179959	0	0	TRUE	406,6782001	0	436,5889203	382,0364034	0	0	TRUE	28,3%	493,6129627	0	0	TRUE	36,6%
820	2	1349,208765	Non-Empty	786,478119	489,2262461	0	0	TRUE	496,6666936	0	468,8418962	410,259316	0	0	TRUE	30,4%	477,1591973	0	0	TRUE	35,4%
820	3	1349,208765	Non-Empty	744,4335687	442,8025597	0	0	TRUE	445,863871	0	443,7779482	556,9130453	0	0	TRUE	41,3%	378,4366047	0	0	TRUE	28,0%
821	1	1127,913563	Non-Empty	862,7629904	387,2926031	0	0	TRUE	379,6137168	0	384,437509	356,2984813	0	0	TRUE	31,6%	292,9645618	0	0	TRUE	26,0%
821	2	1127,913563	Non-Empty	851,2129359	391,3056616	0	0	TRUE	399,1898882	0	379,2909343	351,5286118	0	0	TRUE	31,2%	424,7986146	0	0	TRUE	37,7%
821	3	1127,913563	Non-Empty	817,3121395	349,3152982	0	0	TRUE	349,1099579	0	364,1851197	420,0864699	0	0	TRUE	37,2%	410,1503865	0	0	TRUE	36,4%
822	1	923,8819344	Non-Empty	741,8189071	345,2188748	0	0	TRUE	324,264194	0	334,1852327	301,0422537	0	0	TRUE	32,6%	238,7560055	0	0	TRUE	25,8%
822	2	923,8819344	Non-Empty	695,1413458	321,0529485	0	0	TRUE	322,6099028	0	313,1572547	282,0997353	0	0	TRUE	30,5%	363,3243562	0	0	TRUE	39,3%
822	3	923,8819344	Non-Empty	613,8577361	257,6101111	0	0	TRUE	277,0078377	0	276,5394471	340,7399454	0	0	TRUE	36,9%	321,8015727	0	0	TRUE	34,8%
823	1	1537,97289	Empty	659,5894439	512,9522521	123,5253051	0,080316959	FALSE	507,2824816	0,037724428	507,2824816	476,3791353	160,6314815	0,104443637	FALSE	31,0%	494,9797807	165,2699859	0,107459622	FALSE	32,2%
823	2	1537,97289	Empty	593,859879	466,0130642	123,5253051	0,080316959	FALSE	479,1336707	0,037724428	479,1336707	428,9068878	160,6314815	0,104443637	FALSE	27,9%	424,2683834	165,2699859	0,107459622	FALSE	27,6%
823	3	1537,97289	Empty	707,4258308	559,0075737	123,5253051	0,080316959	FALSE	551,5567378	0,037724428	551,5567378	632,6868669	160,6314815	0,104443637	FALSE	41,1%	618,7247259	165,2699859	0,107459622	FALSE	40,2%
824	1	953,7676979	Non-Empty	673,8412																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
838	1	1346,361662	Non-Empty	676,4642492	357,8745855	0	0	TRUE	357,678031	0	395,719883	373,0906447	0	0	TRUE	27,7%	444,1605484	0	0	TRUE	33,0%
838	2	1346,361662	Non-Empty	782,604457	464,604457	0	0	TRUE	464,9975661	0	457,8100683	431,6302033	0	0	TRUE	32,1%	499,680617	0	0	TRUE	37,1%
838	3	1346,361662	Non-Empty	842,4722835	523,8826198	0	0	TRUE	523,6860653	0	492,8317111	541,6408143	0	0	TRUE	40,2%	402,520497	0	0	TRUE	29,9%
839	1	880,1190185	Non-Empty	490,2245916	292,4538009	0	0	TRUE	272,0608708	0	305,5090756	273,8903384	0	0	TRUE	31,1%	274,4457154	0	0	TRUE	31,2%
839	2	880,1190185	Non-Empty	428,8236917	270,0846363	0	0	TRUE	288,7234414	0	267,2438958	239,5854228	0	0	TRUE	27,2%	302,8366515	0	0	TRUE	34,4%
839	3	880,1190185	Non-Empty	493,2043168	317,5805813	0	0	TRUE	319,3347063	0	307,3660471	366,6432573	0	0	TRUE	41,7%	302,8366515	0	0	TRUE	34,4%
840	1	1162,588948	Non-Empty	641,8891059	380,105891	0	0	TRUE	376,7240872	0	385,104658	334,492226	0	0	TRUE	28,8%	450,5032174	0	0	TRUE	38,8%
840	2	1162,588948	Non-Empty	683,1052523	414,2612114	0	0	TRUE	403,8185817	0	409,8324962	355,9702047	0	0	TRUE	30,6%	377,8414082	0	0	TRUE	32,5%
840	3	1162,588948	Non-Empty	612,7988236	368,2218459	0	0	TRUE	382,0462794	0	367,6517941	472,1265176	0	0	TRUE	40,6%	334,2443226	0	0	TRUE	28,8%
841	1	2071,370875	Empty	864,1182623	676,3502127	202,4600841	0,097742073	FALSE	708,2351576	0,100762727	708,2351576	596,6456302	282,1646666	0,136221219	FALSE	28,8%	623,6385431	259,8598137	0,125453059	FALSE	30,1%
841	2	2071,370875	Empty	929,7980393	689,2613261	202,4600841	0,097742073	FALSE	668,3776074	0,100762727	668,3776074	641,9953857	282,1646666	0,136221219	FALSE	31,0%	579,0929329	259,8598137	0,125453059	FALSE	28,0%
841	3	2071,370875	Empty	936,4135575	705,7593367	202,4600841	0,097742073	FALSE	694,7581105	0,100762727	694,7581105	832,7298596	282,1646666	0,136221219	FALSE	40,2%	868,6393994	259,8598137	0,125453059	FALSE	41,9%
842	1	1308,234004	Empty	581,5285367	461,6847372	65,21111871	0,049846678	FALSE	485,7827192	0,136189115	485,7827192	375,3804423	151,5154137	0,115816752	FALSE	28,7%	427,691886	99,20396995	0,075830447	FALSE	32,7%
842	2	1308,234004	Empty	581,4818314	428,2692124	65,21111871	0,049846678	FALSE	418,9983749	0,136189115	418,9983749	375,3502937	151,5154137	0,115816752	FALSE	28,7%	415,1127129	99,20396995	0,075830447	FALSE	31,7%
842	3	1308,234004	Empty	577,0489804	418,2800545	65,21111871	0,049846678	FALSE	403,4529101	0,136189115	403,4529101	557,5032682	151,5154137	0,115816752	FALSE	42,6%	465,4294053	99,20396995	0,075830447	FALSE	35,6%
843	1	967,9906122	Non-Empty	525,7828219	353,4220942	0	0	TRUE	364,0311242	0	335,521705	275,601026	0	0	TRUE	28,5%	312,5803019	0	0	TRUE	32,3%
843	2	967,9906122	Non-Empty	538,0225782	330,6850649	0	0	TRUE	306,3173092	0	343,3323517	282,0167727	0	0	TRUE	29,1%	292,4138308	0	0	TRUE	30,2%
843	3	967,9906122	Non-Empty	453,0944849	283,8834531	0	0	TRUE	297,6421789	0	289,1365555	410,3728135	0	0	TRUE	42,4%	362,9964796	0	0	TRUE	37,5%
844	1	1351,763973	Empty	633,9523265	427,2314994	55,4057104	0,04098771	FALSE	444,1686077	0,065504946	444,1686077	381,6390436	100,9981661	0,074715829	FALSE	28,2%	440,1092006	50,9084692	0,037660768	FALSE	32,6%
844	2	1351,763973	Empty	721,8188457	491,0731747	55,4057104	0,04098771	FALSE	483,9854392	0,065504946	483,9854392	434,5346525	100,9981661	0,074715829	FALSE	32,1%	471,5455721	50,9084692	0,037660768	FALSE	34,9%
844	3	1351,763973	Empty	666,9666074	435,4592992	55,4057104	0,04098771	FALSE	423,6099265	0,065504946	423,6099265	535,5902771	100,9981661	0,074715829	FALSE	39,6%	440,1092006	50,9084692	0,037660768	FALSE	32,6%
845	1	758,3463454	Non-Empty	595,7910013	225,3913945	0	0	TRUE	235,3985383	0	237,8521128	225,7337342	0	0	TRUE	29,8%	262,5045042	0	0	TRUE	34,6%
845	2	758,3463454	Non-Empty	659,3337101	284,2052783	0	0	TRUE	289,4835969	0	263,2196788	249,8088426	0	0	TRUE	32,9%	213,892559	0	0	TRUE	28,2%
845	3	758,3463454	Non-Empty	644,4418854	248,7496726	0	0	TRUE	233,4642103	0	257,2745538	282,8037686	0	0	TRUE	37,3%	281,9492823	0	0	TRUE	37,2%
846	1	1038,324034	Non-Empty	593,5100594	325,8998594	0	0	TRUE	325,9166085	0	334,7024362	302,2810108	0	0	TRUE	29,1%	282,1532701	0	0	TRUE	27,2%
846	2	1038,324034	Non-Empty	637,7728588	358,9173235	0	0	TRUE	347,6887373	0	359,6638779	324,8245271	0	0	TRUE	31,3%	349,870055	0	0	TRUE	33,7%
846	3	1038,324034	Non-Empty	609,9219629	353,5068512	0	0	TRUE	364,7186884	0	343,95772	411,2184963	0	0	TRUE	39,6%	406,300709	0	0	TRUE	39,1%
847	1	1382,459412	Empty	631,4564058	523,7421713	62,13166225	0,044942847	FALSE	520,3751593	0,059112971	520,3751593	433,5671471	135,8659014	0,098278402	FALSE	31,4%	523,879356	145,6542821	0,105358813	FALSE	37,9%
847	2	1382,459412	Empty	494,4346317	403,1611823	62,13166225	0,044942847	FALSE	416,2349554	0,059112971	416,2349554	339,4860052	135,8659014	0,098278402	FALSE	24,6%	509,3271517	145,6542821	0,105358813	FALSE	36,8%
847	3	1382,459412	Empty	569,6100418	455,5560581	62,13166225	0,044942847	FALSE	445,8459297	0,059112971	445,8459297	609,4062595	135,8659014	0,098278402	FALSE	44,1%	349,252904	145,6542821	0,105358813	FALSE	25,3%
848	1	1041,797385	Non-Empty	500,5570886	316,3164474	0	0	TRUE	340,6700195	0	312,7160665	271,3032306	0	0	TRUE	26,0%	392,2060745	0	0	TRUE	37,6%
848	2	1041,797385	Non-Empty	591,2234061	379,5669407	0	0	TRUE	376,5046887	0	369,3585851	320,444608	0	0	TRUE	30,8%	367,6931948	0	0	TRUE	35,3%
848	3	1041,797385	Non-Empty	575,7995305	345,9139971	0	0	TRUE	324,6226771	0	359,7227337	450,0495467	0	0	TRUE	43,2%	281,898116	0	0	TRUE	27,1%
849	1	1632,806657	Empty	665,4766011	570,9842758	149,0847655	0,091346445	FALSE	570,8060397	0,022793229	570,8060397	506,9352294	212,5991038	0,130262621	FALSE	31,1%	508,1005819	211,4337513	0,129548592	FALSE	31,1%
849	2	1632,806657	Empty	574,2761205	480,3185033	149,0847655	0,091346445	FALSE	480,6749753	0,022793229	480,6749753	437,4621082	212,5991038	0,130262621	FALSE	26,8%	600,4825059	211,4337513	0,129548592	FALSE	36,8%
849	3	1632,806657	Empty	675,2702033	580,777878	149,0847655	0,091346445	FALSE	580,599642	0,022793229	580,599642	687,6833194	212,5991038	0,130262621	FALSE	42,1%	523,4975692	211,4337513	0,129548592	FALSE	32,1%
850	1	1135,902634	Non-Empty	750,3287131	402,5124389	0	0	TRUE	397,5189814	0	393,7866145	374,0125242	0	0	TRUE	32,9%	422,6614453	0	0	TRUE	37,2%
850	2	1135,902634	Non-Empty	653,6794168	305,8631426	0	0	TRUE	300,8696851	0	343,0632468	325,8362428	0	0	TRUE	28,7%	290,5797437	0	0	TRUE	25,6%
850	3	1135,902634	Non-Empty	760,3629545	427,5270529	0	0	TRUE	437,513968	0	399,052773	436,0538674	0	0	TRUE	38,4%	422,6614453	0	0	TRUE	37,2%
851	1	1390,889601	Empty	655,873758	480,6707546	111,090905	0,079870397	FALSE	494,6366649	0,081166971	494,6366649	405,0916912	186,6699684	0,134209047	FALSE	29,1%	500,7202564	110,0294856	0,079107275	FALSE	36,0%
851	2	1390,889601	Empty	704,6695485	504,6999959	111,090905	0,079870397	FALSE	493,899357	0,081166971	493,899357	435,2297613	186,6699684	0,134209047	FALSE	31,3%	500,7202564	110,0294856	0,079107275	FALSE	36,0%
851	3	1390,889601	Empty	597,8530354	505,1188505	111,090905	0,079870397	FALSE	402,3535792	0,081166971	402,3535792	550,5681485	186,6699684	0,134209047	FALSE	39,6%	389,4490883	110,0294856	0,079107275	FALSE	28,0%
852	1	1151,167485	Non-Empty	669,8030668	401,7660607	0	0	TRUE	407,550756	0	390,8763934	340,0524916	0	0	TRUE	29,5%	327,0362173	0	0	TRUE	28,4%
852	2	1151,167485	Non-Empty	666,6596165	386,5359726	0	0	TRUE	380,2340301	0	389,0419728	338,4565925	0	0	TRUE	29,4%	418,6063582	0	0	TRUE	36,4%
852	3	1151,167485	Non-Empty	636,1699057	362,8654516	0	0	TRUE	363,3826989	0	371,2491188	472,6584009	0	0	TRUE	41,1%	405,5249095	0	0	TRUE	35,2%
853	1	1054,641098	Non-Empty	750,9898615	341,6707871	0	0	TRUE	328,6740944	0	353,0138448	336,1095521	0	0	TRUE	31,9%	296,2474995	0	0	TRUE	28,1%
853	2	1054,641098	Non-Empty	713,8002005	337,4604539	0	0	TRUE	357,443089	0	335,5322969	319,4651193	0	0	TRUE	30,3%	438,4462993	0	0	TRUE	41,6%
853	3	1054,641098	Non-Empty	778,8181815	375,5098573	0	0	TRUE	368,5239149	0	366,0949565	399,0664269	0	0	TRUE	37,8%	319,9472995	0	0	TRUE	30,3%
854	1	1212,034796	Non-Empty	734,0457456	442,4354335	0	0	TRUE	418,7399886	0	441,3622774	386,485788	0	0	TRUE	31,9%	354,7418915	0	0	TRUE	29,3%
854	2	1212,034796	Non-Empty	673,3834071	374,9845924	0	0	TRUE	344,5006448	0	404,8876189	354,5461823	0	0	TRUE	29,3%	399,0846279	0	0	TRUE	32,9%
854	3	1212,034796	Non-Empty	608,3502447	394,61477	0	0	TRUE	448,7941626	0	365,7848997	471,00									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
869	1	1410,432541	Empty	528,1899675	440,8866303	95,05210489	0,067392167	FALSE	440,7296867	0,089991356	440,7296867	370,354921	148,8739442	0,105551978	FALSE	26,3%	460,8343947	104,2806707	0,073935242	FALSE	32,7%
869	2	1410,432541	Empty	620,5189247	516,9765483	95,05210489	0,067392167	FALSE	500,5805655	0,089991356	500,5805655	435,0939084	148,8739442	0,105551978	FALSE	30,8%	474,7990733	104,2806707	0,073935242	FALSE	33,7%
869	3	1410,432541	Empty	523,1628298	452,5693626	95,05210489	0,067392167	FALSE	469,122289	0,089991356	469,122289	604,9837118	148,8739442	0,105551978	FALSE	42,9%	474,7990733	104,2806707	0,073935242	FALSE	33,7%
870	1	1213,488503	Non-Empty	828,2323823	393,0376442	0	0	TRUE	387,0774457	0	401,8285782	358,3048693	0	0	TRUE	29,5%	388,3163211	0	0	TRUE	32,0%
870	2	1213,488503	Non-Empty	852,5412464	427,0566578	0	0	TRUE	430,8066088	0	413,6223652	368,8212226	0	0	TRUE	30,4%	372,1364744	0	0	TRUE	30,7%
870	3	1213,488503	Non-Empty	820,4184934	393,3942014	0	0	TRUE	395,6044489	0	398,0375602	486,3624115	0	0	TRUE	40,1%	453,035708	0	0	TRUE	37,3%
871	1	1632,097944	Empty	758,2830386	556,0734534	79,96702303	0,048996461	FALSE	546,1409439	0,034813106	546,1409439	495,5934197	145,2299368	0,088983592	FALSE	30,4%	620,9068266	155,016529	0,094979918	FALSE	38,0%
871	2	1632,097944	Empty	720,7023072	536,2945772	79,96702303	0,048996461	FALSE	544,1639231	0,034813106	544,1639231	471,0316634	145,2299368	0,088983592	FALSE	28,9%	461,2450712	155,016529	0,094979918	FALSE	28,3%
871	3	1632,097944	Empty	729,9438259	539,7299136	79,96702303	0,048996461	FALSE	541,7930772	0,034813106	541,7930772	665,4728611	145,2299368	0,088983592	FALSE	40,8%	549,9460464	155,016529	0,094979918	FALSE	33,7%
872	1	1118,915598	Non-Empty	717,3965256	422,2853947	0	0	TRUE	420,7712924	0	401,4119517	365,3073507	0	0	TRUE	32,6%	334,3885696	0	0	TRUE	29,9%
872	2	1118,915598	Non-Empty	576,2529004	308,1454531	0	0	TRUE	333,6350343	0	322,4364673	293,4352382	0	0	TRUE	26,2%	360,1107673	0	0	TRUE	32,2%
872	3	1118,915598	Non-Empty	706,0572578	388,4847504	0	0	TRUE	364,5092716	0	395,0671793	460,1730094	0	0	TRUE	41,1%	424,4162614	0	0	TRUE	37,9%
873	1	1384,766093	Empty	612,9214716	429,644209	85,70768793	0,06189326	FALSE	425,7092821	0,037725092	425,7092821	405,2983129	129,9209861	0,093821611	FALSE	29,3%	507,7475673	195,4398652	0,141135652	FALSE	36,7%
873	2	1384,766093	Empty	657,520691	479,7649242	85,70768793	0,06189326	FALSE	481,3514932	0,037725092	481,3514932	434,7898371	129,9209861	0,093821611	FALSE	31,4%	369,270958	195,4398652	0,141135652	FALSE	26,7%
873	3	1384,766093	Empty	652,3509372	475,3569594	85,70768793	0,06189326	FALSE	477,7053173	0,037725092	477,7053173	544,6779426	129,9209861	0,093821611	FALSE	39,3%	507,7475673	195,4398652	0,141135652	FALSE	36,7%
874	1	1005,218655	Non-Empty	635,5503439	333,0159928	0	0	TRUE	315,3894234	0	343,4876259	306,8025389	0	0	TRUE	30,5%	326,3696932	0	0	TRUE	32,5%
874	2	1005,218655	Non-Empty	585,3918592	305,6015552	0	0	TRUE	310,7190329	0	316,3791222	282,5892714	0	0	TRUE	28,1%	339,4244809	0	0	TRUE	33,8%
874	3	1005,218655	Non-Empty	638,999797	366,601107	0	0	TRUE	379,1101987	0	345,3519069	415,8268448	0	0	TRUE	41,4%	339,4244809	0	0	TRUE	33,8%
875	1	1429,586786	Empty	676,9851445	465,2253446	114,8125033	0,080311671	FALSE	471,0973638	0,031410241	471,0973638	435,7186044	146,6700703	0,102596129	FALSE	30,5%	519,8497404	190,4366276	0,13321096	FALSE	36,4%
875	2	1429,586786	Empty	696,2132634	482,2025816	114,8125033	0,080311671	FALSE	485,8237193	0,031410241	485,8237193	448,0941331	146,6700703	0,102596129	FALSE	31,3%	404,3275758	190,4366276	0,13321096	FALSE	28,3%
875	3	1429,586786	Empty	709,2838352	482,1588596	114,8125033	0,080311671	FALSE	472,665703	0,031410241	472,665703	545,7740485	146,6700703	0,102596129	FALSE	38,2%	505,4094698	190,4366276	0,13321096	FALSE	35,4%
876	1	1373,157916	Empty	660,79767	503,5979569	138,9951569	0,101222995	FALSE	500,7894138	0,037576183	500,7894138	426,075667	200,810959	0,146240252	FALSE	31,0%	351,662393	275,2242329	0,200431596	FALSE	25,6%
876	2	1373,157916	Empty	634,35039	469,8698187	138,9951569	0,101222995	FALSE	459,7804173	0,037576183	459,7804173	409,0227279	200,810959	0,146240252	FALSE	29,8%	519,1206754	275,2242329	0,200431596	FALSE	37,8%
876	3	1373,157916	Empty	541,1833653	399,69014	138,9951569	0,101222995	FALSE	412,5880847	0,037576183	412,5880847	538,0595208	200,810959	0,146240252	FALSE	39,2%	502,3748472	275,2242329	0,200431596	FALSE	36,6%
877	1	1331,110798	Non-Empty	713,6924295	418,6390243	0	0	TRUE	397,8411865	0	441,066727	401,3453643	0	0	TRUE	30,2%	416,9744669	0	0	TRUE	31,3%
877	2	1331,110798	Non-Empty	706,7199499	411,6665447	0	0	TRUE	390,8687069	0	436,7576877	397,4243862	0	0	TRUE	29,9%	368,8620284	0	0	TRUE	27,7%
877	3	1331,110798	Non-Empty	733,4651208	500,805229	0	0	TRUE	542,4009046	0	453,2863834	532,3410476	0	0	TRUE	40,0%	545,2743028	0	0	TRUE	41,0%
878	1	1633,560619	Empty	718,2221954	582,7569473	119,6223838	0,073228004	FALSE	599,1759644	0,115099197	599,1759644	490,1733701	212,205961	0,12990394	FALSE	30,0%	601,8381229	218,2537829	0,133606173	FALSE	36,8%
878	2	1633,560619	Empty	686,0167919	513,7405958	119,6223838	0,073228004	FALSE	493,3486648	0,115099197	493,3486648	468,1937776	212,205961	0,12990394	FALSE	28,7%	378,2982487	218,2537829	0,133606173	FALSE	23,2%
878	3	1633,560619	Empty	684,9744274	537,0630761	119,6223838	0,073228004	FALSE	541,03599	0,115099197	541,03599	675,1934715	212,205961	0,12990394	FALSE	41,3%	653,4242477	218,2537829	0,133606173	FALSE	40,0%
879	1	1164,92856	Non-Empty	720,1421076	404,3583208	0	0	TRUE	396,4134273	0	401,6931314	350,5285036	0	0	TRUE	30,1%	365,733385	0	0	TRUE	31,4%
879	2	1164,92856	Non-Empty	704,7278482	408,4408346	0	0	TRUE	419,9927143	0	393,0951033	343,0256271	0	0	TRUE	29,4%	447,0074706	0	0	TRUE	38,4%
879	3	1164,92856	Non-Empty	663,5752839	352,1294043	0	0	TRUE	348,522418	0	370,140325	471,3744289	0	0	TRUE	40,5%	352,1877041	0	0	TRUE	30,2%
880	1	1610,933024	Empty	796,7024049	567,0867039	188,0988011	0,116763887	FALSE	557,335999	0,047454843	557,335999	526,3801658	229,0664263	0,142194879	FALSE	32,7%	609,9649316	207,156459	0,128594085	FALSE	37,9%
880	2	1610,933024	Empty	722,5917257	518,3829689	188,0988011	0,116763887	FALSE	534,0392082	0,047454843	534,0392082	477,4153436	229,0664263	0,142194879	FALSE	29,6%	516,1241729	207,156459	0,128594085	FALSE	32,0%
880	3	1610,933024	Empty	751,2338823	525,4633517	188,0988011	0,116763887	FALSE	519,5578173	0,047454843	519,5578173	607,137515	229,0664263	0,142194879	FALSE	37,7%	484,84392	207,156459	0,128594085	FALSE	30,1%
881	1	1557,675683	Empty	757,3632101	557,9306639	150,7614006	0,09678613	FALSE	560,377149	0,049333075	560,377149	517,9511666	190,7408979	0,122452254	FALSE	33,3%	459,1044117	249,5876527	0,160230821	FALSE	29,5%
881	2	1557,675683	Empty	655,5481453	453,1870311	150,7614006	0,09678613	FALSE	542,7049483	0,049333075	542,7049483	448,3211253	190,7408979	0,122452254	FALSE	28,8%	508,2941701	249,5876527	0,160230821	FALSE	32,6%
881	3	1557,675683	Empty	750,4014213	546,5579877	150,7614006	0,09678613	FALSE	554,5935854	0,049333075	554,5935854	591,4033909	190,7408979	0,122452254	FALSE	38,0%	590,2771008	249,5876527	0,160230821	FALSE	37,9%
882	1	999,4490517	Non-Empty	632,6165338	310,1219946	0	0	TRUE	324,6184022	0	314,49518	277,7462257	0	0	TRUE	27,8%	363,4360188	0	0	TRUE	36,4%
882	2	999,4490517	Non-Empty	727,7435116	374,8701267	0	0	TRUE	358,9876886	0	361,7860338	319,5111143	0	0	TRUE	32,0%	298,5367297	0	0	TRUE	29,9%
882	3	999,4490517	Non-Empty	650,0618467	314,4569303	0	0	TRUE	315,8429608	0	323,1678379	402,1917117	0	0	TRUE	40,2%	337,4763032	0	0	TRUE	33,8%
883	1	1836,037533	Empty	706,4621851	528,6664142	185,7003009	0,101141887	FALSE	529,0055139	0,042025008	529,0055139	501,5848786	254,6914193	0,138717981	FALSE	27,3%	654,2202705	293,8021482	0,160019685	FALSE	35,6%
883	2	1836,037533	Empty	857,6330336	678,8719308	185,7003009	0,101141887	FALSE	678,2456988	0,042025008	678,2456988	608,9154807	254,6914193	0,138717981	FALSE	33,2%	569,8047517	293,8021482	0,160019685	FALSE	31,0%
883	3	1836,037533	Empty	806,3469268	628,4991884	185,7003009	0,101141887	FALSE	628,7863206	0,042025008	628,7863206	725,5371741	254,6914193	0,138717981	FALSE	39,5%	612,0125111	293,8021482	0,160019685	FALSE	33,3%
884	1	1323,623593	Non-Empty	806,5032552	437,10944	0	0	TRUE	436,2184808	0	439,4601304	385,1164478	0	0	TRUE	29,1%	532,6777875	0	0	TRUE	40,2%
884	2	1323,623593	Non-Empty	862,1172681	482,6154345	0	0	TRUE	471,6164571	0	469,7639651	411,6729073	0	0	TRUE	31,1%	451,9690318	0	0	TRUE	34,1%
884	3	1323,623593	Non-Empty	760,5116383	403,8987187	0	0	TRUE	415,7886553	0	414,3994976	526,834238	0	0	TRUE	39,8%	338,9767739	0			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
900	1	1307,012394	Non-Empty	894,7638747	446,6975071	0	0	TRUE	429,2810356	0	449,9748118	412,4011554	0	0	TRUE	31,6%	395,1432819	0	0	TRUE	30,2%
900	2	1307,012394	Non-Empty	879,0870573	433,7341352	0	0	TRUE	419,0311093	0	442,0909743	405,1756317	0	0	TRUE	31,0%	440,7367375	0	0	TRUE	33,7%
900	3	1307,012394	Non-Empty	825,1111501	426,5807515	0	0	TRUE	458,700249	0	414,9466077	489,4356067	0	0	TRUE	37,4%	471,1323745	0	0	TRUE	36,0%
901	1	1927,957777	Empty	898,5544162	651,8150637	161,3272354	0,083677785	FALSE	674,4750745	0,114724694	674,4750745	585,9986444	227,1436547	0,117815679	FALSE	30,4%	620,4921556	198,4080741	0,102911006	FALSE	32,2%
901	2	1927,957777	Empty	930,3245813	626,2582435	161,3272354	0,083677785	FALSE	591,591269	0,114724694	591,591269	606,7177832	227,1436547	0,117815679	FALSE	31,5%	531,8504194	198,4080741	0,102911006	FALSE	27,6%
901	3	1927,957777	Empty	907,2768628	649,8844631	161,3272354	0,083677785	FALSE	661,8914268	0,114724694	661,8914268	735,2413427	227,1436547	0,117815679	FALSE	38,1%	775,615195	198,4080741	0,102911006	FALSE	40,2%
902	1	1360,134752	Empty	618,3106302	486,6062355	66,0754014	0,048580041	FALSE	491,9294697	0,103469285	491,9294697	430,4843828	120,8644088	0,088862084	FALSE	31,7%	432,0428036	119,305988	0,0877163	FALSE	31,8%
902	2	1360,134752	Empty	531,8728496	382,8659072	66,0754014	0,048580041	FALSE	370,8865936	0,103469285	370,8865936	370,3040903	120,8644088	0,088862084	FALSE	27,2%	432,0428036	119,305988	0,0877163	FALSE	31,8%
902	3	1360,134752	Empty	621,0341589	490,6626095	66,0754014	0,048580041	FALSE	497,3186889	0,103469285	497,3186889	559,3462791	120,8644088	0,088862084	FALSE	41,1%	496,0491449	119,305988	0,0877163	FALSE	36,5%
903	1	964,1519986	Non-Empty	645,1036713	322,8560643	0	0	TRUE	329,5379074	0	318,8093344	283,5764383	0	0	TRUE	29,4%	353,9292147	0	0	TRUE	36,7%
903	2	964,1519986	Non-Empty	660,5505958	319,8941465	0	0	TRUE	308,1671473	0	326,4431829	290,3666397	0	0	TRUE	30,1%	244,0891136	0	0	TRUE	25,3%
903	3	964,1519986	Non-Empty	645,2860816	321,4017877	0	0	TRUE	326,4469439	0	318,8994813	390,2089206	0	0	TRUE	40,5%	366,1336704	0	0	TRUE	38,0%
904	1	1121,495988	Non-Empty	809,3769185	445,6287394	0	0	TRUE	440,3784552	0	413,1621456	377,098611	0	0	TRUE	33,6%	395,8221134	0	0	TRUE	35,3%
904	2	1121,495988	Non-Empty	648,6716231	300,6742969	0	0	TRUE	311,1748654	0	331,1270107	302,2240473	0	0	TRUE	26,9%	329,8517611	0	0	TRUE	29,4%
904	3	1121,495988	Non-Empty	738,9411305	375,1929515	0	0	TRUE	369,9426673	0	377,2068315	442,1733295	0	0	TRUE	39,4%	395,8221134	0	0	TRUE	35,3%
905	1	1078,597856	Non-Empty	777,0420407	408,6998133	0	0	TRUE	400,769376	0	388,0465718	349,6199251	0	0	TRUE	32,4%	368,6347103	0	0	TRUE	34,2%
905	2	1078,597856	Non-Empty	697,9941198	328,9573097	0	0	TRUE	320,3322896	0	348,5708767	314,0533448	0	0	TRUE	29,1%	300,3690232	0	0	TRUE	27,8%
905	3	1078,597856	Non-Empty	684,7970658	340,9407331	0	0	TRUE	357,4961904	0	341,9804076	414,9245862	0	0	TRUE	38,5%	409,5941226	0	0	TRUE	38,0%
906	1	1476,205392	Empty	680,7317343	489,513073	134,5334412	0,091134636	FALSE	499,5887919	0,053737725	499,5887919	446,8005793	177,2459349	0,120068614	FALSE	30,3%	428,575759	195,4707551	0,132414335	FALSE	29,0%
906	2	1476,205392	Empty	710,192676	495,972162	134,5334412	0,091134636	FALSE	483,0460284	0,053737725	483,0460284	466,1373682	177,2459349	0,120068614	FALSE	31,6%	460,3221115	195,4707551	0,132414335	FALSE	31,2%
906	3	1476,205392	Empty	689,1641228	490,7201572	134,5334412	0,091134636	FALSE	493,570572	0,053737725	493,570572	563,2674448	177,2459349	0,120068614	FALSE	38,2%	587,3075216	195,4707551	0,132414335	FALSE	39,8%
907	1	1891,810551	Empty	761,8028105	596,6702948	161,0041515	0,085105853	FALSE	592,625431	0,042816233	592,625431	539,0930303	244,3309734	0,129151924	FALSE	28,5%	624,1024498	203,5374248	0,107588693	FALSE	33,0%
907	2	1891,810551	Empty	808,3742691	655,3763448	161,0041515	0,085105853	FALSE	663,4660724	0,042816233	663,4660724	572,0495229	244,3309734	0,129151924	FALSE	30,2%	682,6120545	203,5374248	0,107588693	FALSE	36,1%
907	3	1891,810551	Empty	804,8964271	639,7639114	161,0041515	0,085105853	FALSE	635,7190476	0,042816233	635,7190476	780,6679978	244,3309734	0,129151924	FALSE	41,3%	585,0960467	203,5374248	0,107588693	FALSE	30,9%
908	1	1006,934965	Non-Empty	619,8008602	361,0977685	0	0	TRUE	353,1776886	0	354,746111	307,1486871	0	0	TRUE	30,5%	346,8331545	0	0	TRUE	34,4%
908	2	1006,934965	Non-Empty	599,83652	331,097768	0	0	TRUE	313,1420279	0	343,3194214	297,2551531	0	0	TRUE	29,5%	358,0213207	0	0	TRUE	35,6%
908	3	1006,934965	Non-Empty	539,6466202	314,7394281	0	0	TRUE	340,615248	0	308,8694323	402,5311245	0	0	TRUE	40,0%	302,0804894	0	0	TRUE	30,0%
909	1	1262,915973	Non-Empty	700,0939295	399,6141874	0	0	TRUE	371,984797	0	424,7772336	369,7719698	0	0	TRUE	29,3%	374,7113325	0	0	TRUE	29,7%
909	2	1262,915973	Non-Empty	691,5876863	451,8243135	0	0	TRUE	484,9112922	0	419,6161284	365,2791865	0	0	TRUE	28,9%	430,2241225	0	0	TRUE	34,1%
909	3	1262,915973	Non-Empty	689,7854116	411,4774716	0	0	TRUE	406,0198833	0	418,5226105	527,8648162	0	0	TRUE	41,8%	457,9805175	0	0	TRUE	36,3%
910	1	928,9361716	Non-Empty	497,4629466	293,4235838	0	0	TRUE	288,9660185	0	302,4919172	255,3648559	0	0	TRUE	27,5%	249,7140246	0	0	TRUE	26,9%
910	2	928,9361716	Non-Empty	550,3430878	359,6764211	0	0	TRUE	368,5915518	0	334,6467046	282,5100528	0	0	TRUE	30,4%	349,5996345	0	0	TRUE	37,6%
910	3	928,9361716	Non-Empty	479,8755294	275,8361667	0	0	TRUE	271,3786013	0	291,7975498	391,0612629	0	0	TRUE	42,1%	329,6225125	0	0	TRUE	35,5%
911	1	911,952008	Empty	359,4228182	244,1030496	81,52745112	0,089398839	FALSE	238,9085516	0,134085696	238,9085516	255,1969741	80,67904152	0,088468517	FALSE	28,0%	268,2211788	89,07982282	0,097680385	FALSE	29,4%
911	2	911,952008	Empty	438,8633547	323,5435861	81,52745112	0,089398839	FALSE	318,3490881	0,134085696	318,3490881	311,601252	80,67904152	0,088468517	FALSE	34,2%	300,4077203	89,07982282	0,097680385	FALSE	32,9%
911	3	911,952008	Empty	444,0416466	344,3053722	81,52745112	0,089398839	FALSE	354,6943683	0,134085696	354,6943683	345,1537818	80,67904152	0,088468517	FALSE	37,8%	343,3231089	89,07982282	0,097680385	FALSE	37,6%
912	1	1297,66503	Non-Empty	724,1679373	427,9074569	0	0	TRUE	433,4741354	0	426,5387731	381,504341	0	0	TRUE	29,4%	474,4151721	0	0	TRUE	36,6%
912	2	1297,66503	Non-Empty	725,9692153	417,8555024	0	0	TRUE	411,5689485	0	427,5997355	382,4532858	0	0	TRUE	29,5%	404,648235	0	0	TRUE	31,2%
912	3	1297,66503	Non-Empty	753,0093535	451,9020702	0	0	TRUE	452,6219457	0	443,5265209	533,7074028	0	0	TRUE	41,1%	418,6016224	0	0	TRUE	32,3%
913	1	1560,794786	Empty	668,7609564	485,2214289	95,55881939	0,061224461	FALSE	465,7373426	0,101633523	465,7373426	447,2125435	164,0398848	0,105100226	FALSE	28,7%	542,885143	171,8808002	0,110123894	FALSE	34,8%
913	2	1560,794786	Empty	717,4293821	558,1571277	95,55881939	0,061224461	FALSE	562,9401746	0,101633523	562,9401746	479,7579998	164,0398848	0,105100226	FALSE	30,7%	576,8154644	171,8808002	0,110123894	FALSE	37,0%
913	3	1560,794786	Empty	666,7703513	517,4161594	95,55881939	0,061224461	FALSE	532,1172688	0,101633523	532,1172688	633,8242427	164,0398848	0,105100226	FALSE	40,6%	441,0941787	171,8808002	0,110123894	FALSE	28,3%
914	1	1550,27327	Empty	723,2471448	520,7517461	122,9515333	0,079309587	FALSE	524,812569	0,0196406	524,812569	462,6813515	181,0219278	0,116767754	FALSE	29,8%	369,1126833	274,5905961	0,177123996	FALSE	23,8%
914	2	1550,27327	Empty	756,1925736	543,803594	122,9515333	0,079309587	FALSE	537,9708361	0,0196406	537,9708361	483,7574603	181,0219278	0,116767754	FALSE	31,2%	572,1246591	274,5905961	0,177123996	FALSE	36,9%
914	3	1550,27327	Empty	690,5022165	485,7179298	122,9515333	0,079309587	FALSE	487,4898648	0,0196406	487,4898648	603,834458	181,0219278	0,116767754	FALSE	39,0%	609,0359275	274,5905961	0,177123996	FALSE	39,3%
915	1	1717,500188	Empty	762,4415427	596,8284458	127,336324	0,074140501	FALSE	627,8158226	0,133165848	627,8158226	504,0999084	220,0648614	0,12813091	FALSE	29,4%	539,2151754	184,9495944	0,107685342	FALSE	31,4%
915	2	1717,500188	Empty	757,5465104	553,5887708	127,336324	0,074140501	FALSE	546,2315049	0,133165848	546,2315049	500,8634828	220,0648614	0,12813091	FALSE	29,2%	698,9826348	184,9495944	0,107685342	FALSE	40,7%
915	3	1717,500188	Empty	787,3135562	567,0829717	127,336324	0,074140501	FALSE	543,4528608	0,133165848	543,4528608	712,5367971	220,0648614	0,12813091	FALSE	41,5%	479,3023781	184,9495944	0,107685342	FALSE	27,9%
916	1	1035,293257	Empty	486,7341559	383,7340535	83,20126797	0,080364928	FALSE	388,8087531	0,095703547	388,8087531	336,5665908	1								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
931	1	1123,420824	Non-Empty	711,0976333	387,6302144	0	0	TRUE	398,9383351	0	375,4495824	342,2143278	0	0	TRUE	30,5%	317,4884936	0	0	TRUE	28,3%
931	2	1123,420824	Non-Empty	697,7551814	355,4968085	0	0	TRUE	348,0139753	0	368,4049549	335,7932993	0	0	TRUE	29,9%	439,5994527	0	0	TRUE	39,1%
931	3	1123,420824	Non-Empty	718,894628	380,2938008	0	0	TRUE	376,4685132	0	379,5662863	445,4131965	0	0	TRUE	39,6%	366,3328773	0	0	TRUE	32,6%
932	1	952,0542577	Non-Empty	570,9400135	287,958527	0	0	TRUE	288,0430843	0	301,7710755	286,4007295	0	0	TRUE	30,1%	287,830357	0	0	TRUE	30,2%
932	2	952,0542577	Non-Empty	563,700882	309,4654075	0	0	TRUE	338,2959767	0	297,9448233	282,7693629	0	0	TRUE	29,7%	243,5487636	0	0	TRUE	25,6%
932	3	952,0542577	Non-Empty	666,6114937	354,6303233	0	0	TRUE	325,7151967	0	352,3383589	382,8841653	0	0	TRUE	40,2%	420,6751371	0	0	TRUE	44,2%
933	1	877,7591421	Non-Empty	614,9325875	329,2248491	0	0	TRUE	303,4940001	0	329,2739349	275,2923573	0	0	TRUE	31,4%	358,0333343	0	0	TRUE	40,8%
933	2	877,7591421	Non-Empty	538,4379282	287,2827525	0	0	TRUE	296,1044662	0	288,3138395	241,0473108	0	0	TRUE	27,5%	265,6376351	0	0	TRUE	30,3%
933	3	877,7591421	Non-Empty	485,8807071	261,2515404	0	0	TRUE	278,1606758	0	260,1713677	361,419474	0	0	TRUE	41,2%	254,0881727	0	0	TRUE	28,9%
934	1	853,7683458	Non-Empty	513,4295639	278,7824017	0	0	TRUE	279,7263385	0	280,8960026	241,565317	0	0	TRUE	28,3%	290,4572723	0	0	TRUE	34,0%
934	2	853,7683458	Non-Empty	564,7987912	328,6278217	0	0	TRUE	328,0479513	0	308,9999757	265,734209	0	0	TRUE	31,1%	316,8624789	0	0	TRUE	37,1%
934	3	853,7683458	Non-Empty	482,3132877	246,3581224	0	0	TRUE	245,994056	0	263,8723675	346,4688198	0	0	TRUE	40,6%	246,4485947	0	0	TRUE	28,9%
935	1	1133,992558	Non-Empty	767,7494217	376,3691731	0	0	TRUE	396,8000916	0	367,4400927	343,5177428	0	0	TRUE	30,3%	453,5970233	0	0	TRUE	40,0%
935	2	1133,992558	Non-Empty	761,4662449	336,4615661	0	0	TRUE	323,2680543	0	364,4330034	340,7064314	0	0	TRUE	30,0%	340,1977675	0	0	TRUE	30,0%
935	3	1133,992558	Non-Empty	840,2103927	421,161819	0	0	TRUE	413,9244123	0	402,1194622	449,7683841	0	0	TRUE	39,7%	340,1977675	0	0	TRUE	30,0%
936	1	846,3229765	Non-Empty	521,8195861	253,5109812	0	0	TRUE	271,5836429	0	258,9484073	253,0824481	0	0	TRUE	29,9%	342,3328894	0	0	TRUE	40,4%
936	2	846,3229765	Non-Empty	567,3941879	265,7238142	0	0	TRUE	250,434707	0	281,5644049	275,1861255	0	0	TRUE	32,5%	199,6941855	0	0	TRUE	23,6%
936	3	846,3229765	Non-Empty	616,2530022	327,0881811	0	0	TRUE	324,3046266	0	305,8101643	318,054403	0	0	TRUE	37,6%	304,2959017	0	0	TRUE	36,0%
937	1	881,3390948	Non-Empty	662,0248717	280,3516849	0	0	TRUE	265,832789	0	294,2645865	275,6366351	0	0	TRUE	31,3%	286,9476122	0	0	TRUE	32,6%
937	2	881,3390948	Non-Empty	682,6536522	316,2403497	0	0	TRUE	316,9813381	0	303,433909	284,2255083	0	0	TRUE	32,2%	276,6994832	0	0	TRUE	31,4%
937	3	881,3390948	Non-Empty	638,1234437	284,7470602	0	0	TRUE	298,5249676	0	283,6405992	321,4769513	0	0	TRUE	36,5%	317,6919993	0	0	TRUE	36,0%
938	1	1133,686978	Non-Empty	810,8713441	438,1948587	0	0	TRUE	425,1179005	0	415,4939135	374,1655785	0	0	TRUE	33,0%	409,7663776	0	0	TRUE	36,1%
938	2	1133,686978	Non-Empty	680,2827183	335,6331812	0	0	TRUE	350,5831712	0	348,5797482	313,9072292	0	0	TRUE	27,7%	341,4719814	0	0	TRUE	30,1%
938	3	1133,686978	Non-Empty	721,3314972	359,8589382	0	0	TRUE	357,9859064	0	369,6133164	445,6141704	0	0	TRUE	39,3%	382,4486191	0	0	TRUE	33,7%
939	1	1582,484716	Empty	741,90573	545,6454339	154,2679308	0,097484626	FALSE	522,6947558	0,087605569	522,6947558	492,51411	208,3870074	0,131683425	FALSE	31,1%	483,0742817	229,9338233	0,145299238	FALSE	30,5%
939	2	1582,484716	Empty	709,9580303	540,557403	154,2679308	0,097484626	FALSE	544,4663937	0,087605569	544,4663937	471,3056299	208,3870074	0,131683425	FALSE	29,8%	449,758814	229,9338233	0,145299238	FALSE	28,4%
939	3	1582,484716	Empty	650,54981	496,2818791	154,2679308	0,097484626	FALSE	515,3235664	0,087605569	515,3235664	618,6649762	208,3870074	0,131683425	FALSE	39,1%	649,6516202	229,9338233	0,145299238	FALSE	41,1%
940	1	1449,824501	Empty	608,0211318	503,9819118	149,5630856	0,103159441	FALSE	497,0239864	0,114594419	497,0239864	439,4363471	186,6035498	0,128707681	FALSE	30,3%	430,1677091	195,8721877	0,135100619	FALSE	29,7%
940	2	1449,824501	Empty	577,1319303	466,4613859	149,5630856	0,103159441	FALSE	452,8721361	0,114594419	452,8721361	417,1117318	186,6035498	0,128707681	FALSE	28,8%	493,8962586	195,8721877	0,135100619	FALSE	34,1%
940	3	1449,824501	Empty	555,9153229	479,3812035	149,5630856	0,103159441	FALSE	499,9283787	0,114594419	499,9283787	593,2764224	186,6035498	0,128707681	FALSE	40,9%	525,7605334	195,8721877	0,135100619	FALSE	36,3%
941	1	1742,509319	Empty	810,0163071	604,2225188	173,5549852	0,099600607	FALSE	593,4762511	0,05002853	593,4762511	564,8253869	211,8233808	0,121562266	FALSE	32,4%	623,634914	276,4778634	0,158666505	FALSE	35,8%
941	2	1742,509319	Empty	699,7828165	526,2278313	173,5549852	0,099600607	FALSE	547,7203668	0,05002853	547,7203668	487,9594357	211,8233808	0,121562266	FALSE	28,0%	641,9771174	276,4778634	0,158666505	FALSE	36,8%
941	3	1742,509319	Empty	817,8527569	612,0589685	173,5549852	0,099600607	FALSE	601,3127008	0,05002853	601,3127008	689,724496	211,8233808	0,121562266	FALSE	39,6%	476,8972872	276,4778634	0,158666505	FALSE	27,4%
942	1	1433,316235	Empty	727,5546272	520,154509	131,5900455	0,091808104	FALSE	526,5887629	0,062318076	526,5887629	460,2197112	191,5248433	0,133623578	FALSE	32,1%	438,4261424	213,3184122	0,148828575	FALSE	30,6%
942	2	1433,316235	Empty	684,2900169	461,543377	131,5900455	0,091808104	FALSE	452,6311091	0,062318076	452,6311091	432,8523827	191,5248433	0,133623578	FALSE	30,2%	489,0137742	213,3184122	0,148828575	FALSE	34,1%
942	3	1433,316235	Empty	662,9747067	451,6183487	131,5900455	0,091808104	FALSE	544,0963627	0,062318076	544,0963627	540,2441407	191,5248433	0,133623578	FALSE	37,7%	505,8763181	213,3184122	0,148828575	FALSE	35,3%
943	1	1522,623321	Empty	677,2416823	554,3222213	116,8549503	0,076745804	FALSE	547,2065759	0,069252716	547,2065759	470,3815135	179,448722	0,117854967	FALSE	30,9%	368,6351199	281,1951156	0,184678056	FALSE	24,2%
943	2	1522,623321	Empty	600,2197376	477,3002766	116,8549503	0,076745804	FALSE	470,1846312	0,069252716	470,1846312	416,8855461	179,448722	0,117854967	FALSE	27,4%	528,911259	281,1951156	0,184678056	FALSE	34,7%
943	3	1522,623321	Empty	592,5733482	491,0008233	116,8549503	0,076745804	FALSE	505,2321141	0,069252716	505,2321141	635,3562617	179,448722	0,117854967	FALSE	41,7%	625,0769424	281,1951156	0,184678056	FALSE	41,1%
944	1	1389,400141	Empty	670,8685245	484,8318069	150,1910516	0,108097766	FALSE	478,0495649	0,037338568	478,0495649	441,4977064	195,9477999	0,141030502	FALSE	31,8%	552,7720991	223,478065	0,160844999	FALSE	39,8%
944	2	1389,400141	Empty	632,9979435	462,3318745	150,1910516	0,108097766	FALSE	470,920281	0,037338568	470,920281	416,5751261	195,9477999	0,141030502	FALSE	30,0%	478,0731668	223,478065	0,160844999	FALSE	34,4%
944	3	1389,400141	Empty	623,2970998	442,2364596	150,1910516	0,108097766	FALSE	440,4302951	0,037338568	440,4302951	531,3273084	195,9477999	0,141030502	FALSE	38,2%	358,5548751	223,478065	0,160844999	FALSE	25,8%
945	1	1124,882753	Non-Empty	645,6154399	391,3594379	0	0	TRUE	383,8430844	0	389,3844899	334,062043	0	0	TRUE	29,7%	355,2261325	0	0	TRUE	31,6%
945	2	1124,882753	Non-Empty	608,1602888	380,8572711	0	0	TRUE	400,2939018	0	366,7944866	314,6815519	0	0	TRUE	28,0%	426,271359	0	0	TRUE	37,9%
945	3	1124,882753	Non-Empty	611,3259694	352,6660439	0	0	TRUE	340,7457668	0	368,7037764	476,1391581	0	0	TRUE	42,3%	343,3852614	0	0	TRUE	30,5%
946	1	1354,433808	Empty	604,3876849	446,4447877	25,39478878	0,018749376	FALSE	458,5310461	0,07430069	458,5310461	375,2893561	96,55022037	0,071284562	FALSE	27,7%	438,5785665	41,51824591	0,030653581	FALSE	32,4%
946	2	1354,433808	Empty	651,9606902	480,8095931	25,39478878	0,018749376	FALSE	479,6876516	0,07430069	479,6876516	404,8294062	96,55022037	0,071284562	FALSE	29,9%	451,4779361	41,51824591	0,030653581	FALSE	33,3%
946	3	1354,433808	Empty	608,1729002	427,1794276	25,39478878	0,018749376	FALSE	416,2151107	0,07430069	416,2151107	574,315046	96,55022037	0,071284562	FALSE	42,4%	464,3773057	41,51824591	0,030653581	FALSE	34,3%
947	1	1076,82072	Non-Empty	742,6003739	399,0601888	0	0	TRUE	395,8362773	0	381,1893794	341,5396495	0	0	TRUE	31,7%	292,6143261	0	0	TRUE	27,2%
947	2	1076,82072	Non-Empty	686,8595843	339,4175592	0	0	TRUE	332,2918076	0	352,5766858	315,903129	0</								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
962	1	1274,207774	Empty	527,5145824	418,8340242	108,6805582	0,08529265	FALSE	431,8566998	0,061749845	431,8566998	364,4871792	163,0274032	0,127944129	FALSE	28,6%	474,439065	122,0549821	0,095788917	FALSE	37,2%
962	2	1274,207774	Empty	557,5732308	429,3586591	108,6805582	0,08529265	FALSE	422,8473213	0,061749845	422,8473213	385,256258	163,0274032	0,127944129	FALSE	30,2%	406,6620557	122,0549821	0,095788917	FALSE	31,9%
962	3	1274,207774	Empty	554,2296628	426,0150912	108,6805582	0,08529265	FALSE	419,5037534	0,061749845	419,5037534	524,4643373	163,0274032	0,127944129	FALSE	41,2%	393,1066538	122,0549821	0,095788917	FALSE	30,9%
963	1	1415,317889	Empty	537,2688363	434,030016	110,7925466	0,078281033	FALSE	431,194265	0,056882149	431,194265	378,8008573	198,6647377	0,140367573	FALSE	26,8%	500,3649102	188,7701758	0,133376521	FALSE	35,4%
963	2	1415,317889	Empty	614,5470532	521,1579782	110,7925466	0,078281033	FALSE	528,1719726	0,056882149	528,1719726	433,2857871	198,6647377	0,140367573	FALSE	30,6%	443,180349	188,7701758	0,133376521	FALSE	31,3%
963	3	1415,317889	Empty	564,7112072	460,1298945	110,7925466	0,078281033	FALSE	455,9516512	0,056882149	455,9516512	603,2312444	198,6647377	0,140367573	FALSE	42,6%	471,7726296	188,7701758	0,133376521	FALSE	33,3%
964	1	934,7610032	Non-Empty	552,0168974	271,5002007	0	0	TRUE	290,8581523	0	281,2953024	246,5327239	0	0	TRUE	26,4%	327,7733388	0	0	TRUE	35,1%
964	2	934,7610032	Non-Empty	659,0051638	349,4515396	0	0	TRUE	339,7725638	0	335,8140987	294,314067	0	0	TRUE	31,5%	352,0528454	0	0	TRUE	37,7%
964	3	934,7610032	Non-Empty	623,3628871	313,8092629	0	0	TRUE	304,1302871	0	317,6516021	393,9142123	0	0	TRUE	42,1%	254,9348191	0	0	TRUE	27,3%
965	1	1414,173779	Empty	593,5077992	454,9878138	159,1443865	0,112535241	FALSE	468,0535334	0,066670863	468,0535334	410,8027438	203,3294565	0,143779682	FALSE	29,0%	477,0706723	178,7536869	0,1264015	FALSE	33,7%
965	2	1414,173779	Empty	640,1574749	488,0305189	159,1443865	0,112535241	FALSE	487,4892678	0,066670863	487,4892678	443,0918137	203,3294565	0,143779682	FALSE	31,3%	511,1471489	178,7536869	0,1264015	FALSE	36,1%
965	3	1414,173779	Empty	635,265619	471,1554457	159,1443865	0,112535241	FALSE	458,6309773	0,066670863	458,6309773	560,279221	203,3294565	0,143779682	FALSE	39,6%	425,9559574	178,7536869	0,1264015	FALSE	30,1%
966	1	956,9681285	Non-Empty	657,3744905	304,0543946	0	0	TRUE	337,5662758	0	297,0942685	277,4552639	0	0	TRUE	29,0%	289,3159458	0	0	TRUE	30,2%
966	2	956,9681285	Non-Empty	740,1019607	338,5472966	0	0	TRUE	323,8246096	0	334,4821769	312,3716964	0	0	TRUE	32,6%	333,8260913	0	0	TRUE	34,9%
966	3	956,9681285	Non-Empty	719,9876086	314,3664373	0	0	TRUE	295,5772431	0	325,3916831	367,1411682	0	0	TRUE	38,4%	333,8260913	0	0	TRUE	34,9%
967	1	1384,559003	Non-Empty	843,0125129	529,2817717	0	0	TRUE	515,256962	0	511,1058473	444,7680372	0	0	TRUE	32,1%	547,7376277	0	0	TRUE	39,6%
967	2	1384,559003	Non-Empty	682,3764604	403,9764586	0	0	TRUE	425,2823883	0	413,7146171	360,0174782	0	0	TRUE	26,0%	395,5882867	0	0	TRUE	28,6%
967	3	1384,559003	Non-Empty	758,2878242	451,3007729	0	0	TRUE	444,019653	0	459,7385388	579,7734879	0	0	TRUE	41,9%	441,233089	0	0	TRUE	31,9%
968	1	1031,703271	Non-Empty	616,2463137	371,8771512	0	0	TRUE	357,6542757	0	369,181687	311,3406557	0	0	TRUE	30,2%	257,9258177	0	0	TRUE	25,0%
968	2	1031,703271	Non-Empty	570,244185	359,094453	0	0	TRUE	378,0910079	0	341,6226686	288,0994085	0	0	TRUE	27,9%	417,594181	0	0	TRUE	40,5%
968	3	1031,703271	Non-Empty	535,6516328	300,7316664	0	0	TRUE	295,957987	0	320,898915	432,2632064	0	0	TRUE	41,9%	356,183272	0	0	TRUE	34,5%
969	1	814,1210498	Non-Empty	549,3876967	263,2668028	0	0	TRUE	249,8627311	0	274,0157406	244,9746928	0	0	TRUE	30,1%	223,8832887	0	0	TRUE	27,5%
969	2	814,1210498	Non-Empty	554,6632204	289,0899383	0	0	TRUE	296,2334783	0	276,6469909	247,3270749	0	0	TRUE	30,4%	315,4719068	0	0	TRUE	38,8%
969	3	814,1210498	Non-Empty	528,220599	261,7643087	0	0	TRUE	268,0248404	0	263,4583183	321,8192822	0	0	TRUE	39,5%	274,7658543	0	0	TRUE	33,8%
970	1	819,0835208	Non-Empty	513,556562	281,4174945	0	0	TRUE	291,6953783	0	272,027657	247,3835898	0	0	TRUE	30,2%	273,0278403	0	0	TRUE	33,3%
970	2	819,0835208	Non-Empty	525,3407822	269,721941	0	0	TRUE	256,5200512	0	278,2696838	253,0601265	0	0	TRUE	30,9%	204,7708802	0	0	TRUE	25,0%
970	3	819,0835208	Non-Empty	507,4370307	267,9440853	0	0	TRUE	270,8680913	0	268,7861801	318,6398045	0	0	TRUE	38,9%	341,2848003	0	0	TRUE	41,7%
971	1	1521,844126	Empty	644,3515042	502,0528264	103,2000299	0,067812484	FALSE	499,8826259	0,105619346	499,8826259	434,4080075	193,2373572	0,126975788	FALSE	28,5%	577,2512201	229,9703871	0,151112971	FALSE	37,9%
971	2	1521,844126	Empty	651,2512044	529,0969651	103,2000299	0,067812484	FALSE	547,0712032	0,105619346	547,0712032	439,0596378	193,2373572	0,126975788	FALSE	28,9%	402,3266079	229,9703871	0,151112971	FALSE	26,4%
971	3	1521,844126	Empty	646,6268492	490,6943342	103,2000299	0,067812484	FALSE	474,8902965	0,105619346	474,8902965	648,3764804	193,2373572	0,126975788	FALSE	42,6%	542,2662977	229,9703871	0,151112971	FALSE	35,6%
972	1	1173,589917	Non-Empty	669,4217402	447,8629727	0	0	TRUE	449,0787365	0	426,5274121	339,0133656	0	0	TRUE	28,9%	444,7288107	0	0	TRUE	37,9%
972	2	1173,589917	Non-Empty	662,5800371	426,7945442	0	0	TRUE	413,7835838	0	422,1681663	335,5485412	0	0	TRUE	28,6%	370,6073422	0	0	TRUE	31,6%
972	3	1173,589917	Non-Empty	509,911737	298,9324001	0	0	TRUE	310,7275957	0	324,8943387	499,0280103	0	0	TRUE	42,5%	358,2537641	0	0	TRUE	30,5%
973	1	1398,507511	Non-Empty	873,1899922	541,090386	0	0	TRUE	529,5915621	0	517,3739195	445,1669981	0	0	TRUE	31,8%	466,1691702	0	0	TRUE	33,3%
973	2	1398,507511	Non-Empty	732,0770448	428,8866726	0	0	TRUE	446,2970827	0	433,7630681	373,2252354	0	0	TRUE	26,7%	466,1691702	0	0	TRUE	33,3%
973	3	1398,507511	Non-Empty	755,0428205	428,530452	0	0	TRUE	422,6188658	0	447,370523	580,1152771	0	0	TRUE	41,5%	466,1691702	0	0	TRUE	33,3%
974	1	1056,937535	Non-Empty	547,4064878	331,8110165	0	0	TRUE	321,2694575	0	346,0168147	293,7990383	0	0	TRUE	27,8%	381,3692138	0	0	TRUE	36,1%
974	2	1056,937535	Non-Empty	614,5408983	387,4504265	0	0	TRUE	365,4137822	0	388,4526731	329,8308549	0	0	TRUE	31,2%	348,680424	0	0	TRUE	33,0%
974	3	1056,937535	Non-Empty	510,1518015	337,6760924	0	0	TRUE	370,2542956	0	322,4680476	433,3076421	0	0	TRUE	41,0%	326,8878975	0	0	TRUE	30,9%
975	1	1137,480685	Non-Empty	758,5352286	401,8475885	0	0	TRUE	411,1195971	0	385,9867377	342,288107	0	0	TRUE	30,1%	341,2442056	0	0	TRUE	30,0%
975	2	1137,480685	Non-Empty	706,2850704	359,0379859	0	0	TRUE	377,75055	0	359,3988254	318,7102861	0	0	TRUE	28,0%	426,555257	0	0	TRUE	37,5%
975	3	1137,480685	Non-Empty	770,5393324	376,595111	0	0	TRUE	348,6105383	0	392,0951222	476,4822923	0	0	TRUE	41,9%	369,6812228	0	0	TRUE	32,5%
976	1	909,772305	Empty	452,8150054	291,8393008	55,08658257	0,060549857	FALSE	274,3242088	0,205954129	274,3242088	282,95043	30,53088206	0,033558817	FALSE	31,1%	319,9199314	53,62670656	0,058945196	FALSE	35,2%
976	2	909,772305	Empty	462,0089473	304,3622765	55,08658257	0,060549857	FALSE	290,1762184	0,205954129	290,1762184	288,6954468	30,53088206	0,033558817	FALSE	31,7%	259,9349443	53,62670656	0,058945196	FALSE	28,6%
976	3	909,772305	Empty	425,3301903	313,5707277	55,08658257	0,060549857	FALSE	345,2718778	0,205954129	345,2718778	338,1264282	30,53088206	0,033558817	FALSE	37,2%	329,9174293	53,62670656	0,058945196	FALSE	36,3%
977	1	740,3931092	Non-Empty	478,9650713	272,2320919	0	0	TRUE	291,4184589	0	250,0596913	226,2704451	0	0	TRUE	30,6%	268,4942044	0	0	TRUE	36,3%
977	2	740,3931092	Non-Empty	443,0234744	216,024633	0	0	TRUE	214,9451379	0	231,2951819	209,2910835	0	0	TRUE	28,3%	219,6770764	0	0	TRUE	29,7%
977	3	740,3931092	Non-Empty	496,1626024	252,1363843	0	0	TRUE	234,0295124	0	259,0382361	304,8315806	0	0	TRUE	41,2%	252,2218284	0	0	TRUE	34,1%
978	1	1317,577417	Non-Empty	766,5054912	446,3166794	0	0	TRUE	460,0183193	0	435,4557982	391,1415016	0	0	TRUE	29,7%	511,530056	0	0	TRUE	38,8%
978	2	1317,577417	Non-Empty	758,4983029	423,5251435	0	0	TRUE	422,4424357	0	430,9068725	387,0554987	0	0	TRUE	29,4%	496,0291452	0	0	TRUE	37,6%
978	3	1317,577417	Non-Empty	794,2449778	447,7355941	0	0	TRUE	435,116662	0	451,2147463	539,3804167	0	0	TRUE	40,9%	310,0182158	0	0	TRUE	23,5%
979	1	1088,647495	Empty	447,6634473	358,07318	47,08695365	0,043252709	FALSE	377,4941528	0,15											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
993	1	835,3038807	Non-Empty	647,7862315	279,0743175	0	0	TRUE	277,585485	0	279,3525352	265,8390954	0	0	TRUE	31,8%	271,4737612	0	0	TRUE	32,5%
993	2	835,3038807	Non-Empty	640,4640622	269,7425771	0	0	TRUE	266,2441733	0	276,1949093	262,834217	0	0	TRUE	31,5%	313,2389553	0	0	TRUE	37,5%
993	3	835,3038807	Non-Empty	648,7228312	286,4869861	0	0	TRUE	291,4742224	0	279,7564362	306,6305682	0	0	TRUE	36,7%	250,5911642	0	0	TRUE	30,0%
994	1	1090,435401	Non-Empty	537,4184221	331,9451828	0	0	TRUE	331,9125401	0	343,3529243	293,005997	0	0	TRUE	26,9%	346,0035408	0	0	TRUE	31,7%
994	2	1090,435401	Non-Empty	639,4256002	418,4706978	0	0	TRUE	402,956392	0	408,5246071	348,6213495	0	0	TRUE	32,0%	408,9132755	0	0	TRUE	37,5%
994	3	1090,435401	Non-Empty	529,913169	340,0195208	0	0	TRUE	355,5664693	0	338,5578699	448,8080549	0	0	TRUE	41,2%	335,518585	0	0	TRUE	30,8%
995	1	1514,245043	Empty	683,4714372	500,1263653	136,0592634	0,08985287	FALSE	482,0144511	0,128402378	482,0144511	462,2040629	140,9512771	0,093083532	FALSE	30,5%	504,7483476	137,7725045	0,090984286	FALSE	33,3%
995	2	1514,245043	Empty	683,9522262	507,6570888	136,0592634	0,08985287	FALSE	496,595109	0,128402378	496,595109	462,5292011	140,9512771	0,093083532	FALSE	30,5%	504,7483476	137,7725045	0,090984286	FALSE	33,3%
995	3	1514,245043	Empty	642,5208521	506,4615887	136,0592634	0,08985287	FALSE	535,6354829	0,128402378	535,6354829	589,5117789	140,9512771	0,093083532	FALSE	38,9%	504,7483476	137,7725045	0,090984286	FALSE	33,3%
996	1	1058,794277	Non-Empty	546,9244271	340,1449091	0	0	TRUE	340,1374144	0	344,8733755	307,129288	0	0	TRUE	29,0%	376,4601873	0	0	TRUE	35,6%
996	2	1058,794277	Non-Empty	545,7320709	343,9024756	0	0	TRUE	348,8449036	0	344,1215131	306,4597119	0	0	TRUE	28,9%	376,4601873	0	0	TRUE	35,6%
996	3	1058,794277	Non-Empty	586,4538489	374,7468921	0	0	TRUE	369,8119587	0	369,7993881	445,2052769	0	0	TRUE	42,0%	305,8739022	0	0	TRUE	28,9%
997	1	1306,844591	Empty	617,028769	459,6863283	123,5475506	0,094538824	FALSE	451,5329065	0,073180691	451,5329065	403,3439594	153,0550187	0,117117995	FALSE	30,9%	405,5724594	150,8265187	0,115412743	FALSE	31,0%
997	2	1306,844591	Empty	602,8691439	443,1520678	123,5475506	0,094538824	FALSE	432,6240107	0,073180691	432,6240107	394,0879903	153,0550187	0,117117995	FALSE	30,2%	450,636066	150,8265187	0,115412743	FALSE	34,5%
997	3	1306,844591	Empty	534,5137352	404,0061952	123,5475506	0,094538824	FALSE	422,6876741	0,073180691	422,6876741	509,4126416	153,0550187	0,117117995	FALSE	39,0%	450,636066	150,8265187	0,115412743	FALSE	34,5%
998	1	1309,884425	Non-Empty	830,4834781	436,2848845	0	0	TRUE	433,1693671	0	438,0905441	398,1652849	0	0	TRUE	30,4%	466,7404273	0	0	TRUE	35,6%
998	2	1309,884425	Non-Empty	830,463752	445,0986992	0	0	TRUE	450,8167225	0	438,0801383	398,1558275	0	0	TRUE	30,4%	421,5719988	0	0	TRUE	32,2%
998	3	1309,884425	Non-Empty	822,1864231	428,5008412	0	0	TRUE	425,8983353	0	433,7137425	513,5633125	0	0	TRUE	39,2%	421,5719988	0	0	TRUE	32,2%
999	1	860,9115041	Empty	425,4429404	299,6226149	47,59223997	0,055281222	FALSE	290,3515619	0,061389175	290,3515619	269,0682959	83,40117202	0,09687543	FALSE	31,3%	304,4687027	58,88800304	0,068401924	FALSE	35,4%
999	2	860,9115041	Empty	392,8557613	284,2677034	47,59223997	0,055281222	FALSE	292,228918	0,061389175	292,228918	248,4587713	83,40117202	0,09687543	FALSE	28,9%	272,9719403	58,88800304	0,068401924	FALSE	31,7%
999	3	860,9115041	Empty	392,2606198	277,0211858	47,59223997	0,055281222	FALSE	278,3310243	0,061389175	278,3310243	343,3844368	83,40117202	0,09687543	FALSE	39,9%	283,4708611	58,88800304	0,068401924	FALSE	32,9%
1000	1	946,796821	Non-Empty	733,4010335	343,519453	0	0	TRUE	343,2995469	0	328,1915709	293,0440042	0	0	TRUE	31,0%	355,0488079	0	0	TRUE	37,5%
1000	2	946,796821	Non-Empty	726,5249608	325,3701174	0	0	TRUE	313,8769485	0	325,1145789	290,2965416	0	0	TRUE	30,7%	328,7488962	0	0	TRUE	34,7%
1000	3	946,796821	Non-Empty	655,85585	277,9072506	0	0	TRUE	289,6203257	0	293,4906713	363,4562752	0	0	TRUE	38,4%	262,999117	0	0	TRUE	27,8%
1001	1	910,386321	Non-Empty	654,4562977	308,3774273	0	0	TRUE	323,9552411	0	298,5973178	277,4535966	0	0	TRUE	30,5%	296,1497671	0	0	TRUE	32,5%
1001	2	910,386321	Non-Empty	690,9676529	326,2384037	0	0	TRUE	323,1658387	0	315,2557146	292,9324099	0	0	TRUE	32,2%	318,0867869	0	0	TRUE	34,9%
1001	3	910,386321	Non-Empty	649,932423	275,77049	0	0	TRUE	263,2652411	0	296,5332886	340,0003146	0	0	TRUE	37,3%	296,1497671	0	0	TRUE	32,5%
1002	1	1096,214986	Non-Empty	757,1159664	354,9076281	0	0	TRUE	344,541643	0	365,3415978	333,574111	0	0	TRUE	30,4%	308,7929539	0	0	TRUE	28,2%
1002	2	1096,214986	Non-Empty	771,0656043	381,6006003	0	0	TRUE	383,9779494	0	372,0729087	339,7201155	0	0	TRUE	31,0%	416,8704878	0	0	TRUE	38,0%
1002	3	1096,214986	Non-Empty	743,5604752	359,706758	0	0	TRUE	367,695394	0	358,8004799	422,9207599	0	0	TRUE	38,6%	370,5515447	0	0	TRUE	33,8%
1003	1	914,7138244	Non-Empty	528,8759169	310,204469	0	0	TRUE	296,1405969	0	316,4923417	269,4212547	0	0	TRUE	29,5%	271,3986072	0	0	TRUE	29,7%
1003	2	914,7138244	Non-Empty	526,668372	332,809132	0	0	TRUE	343,5574677	0	315,1712926	268,2966818	0	0	TRUE	29,3%	281,4504075	0	0	TRUE	30,8%
1003	3	914,7138244	Non-Empty	472,9922627	271,7002234	0	0	TRUE	275,0157598	0	283,0501901	376,9958879	0	0	TRUE	41,2%	361,8648097	0	0	TRUE	39,6%
1004	1	1037,385407	Non-Empty	684,462483	337,3597875	0	0	TRUE	322,9672769	0	348,8311587	306,7795304	0	0	TRUE	29,6%	306,9813959	0	0	TRUE	29,6%
1004	2	1037,385407	Non-Empty	723,4163442	404,378926	0	0	TRUE	418,0516927	0	368,6837013	324,2388471	0	0	TRUE	31,3%	306,9813959	0	0	TRUE	29,6%
1004	3	1037,385407	Non-Empty	627,6371343	295,6466934	0	0	TRUE	296,3664374	0	319,870547	406,3670294	0	0	TRUE	39,2%	423,4226151	0	0	TRUE	40,8%
1005	1	1413,674428	Empty	580,3155598	474,2961499	94,8786298	0,067114908	FALSE	493,635048	0,106572411	493,635048	397,7208043	171,4539753	0,121282505	FALSE	28,1%	447,8968486	121,2779311	0,085789152	FALSE	31,7%
1005	2	1413,674428	Empty	598,6819582	469,4636029	94,8786298	0,067114908	FALSE	465,6035555	0,106572411	465,6035555	410,3082641	171,4539753	0,121282505	FALSE	29,0%	531,8775077	121,2779311	0,085789152	FALSE	37,6%
1005	3	1413,674428	Empty	610,7518344	469,9146757	94,8786298	0,067114908	FALSE	454,4358249	0,106572411	454,4358249	605,6453599	171,4539753	0,121282505	FALSE	42,8%	433,9000721	121,2779311	0,085789152	FALSE	30,7%
1006	1	1014,232793	Non-Empty	628,2725271	383,7012197	0	0	TRUE	382,1344884	0	365,5332692	320,5209942	0	0	TRUE	31,6%	308,121355	0	0	TRUE	30,4%
1006	2	1014,232793	Non-Empty	560,9204447	313,1610978	0	0	TRUE	308,406327	0	326,3473653	286,160497	0	0	TRUE	28,2%	410,8284733	0	0	TRUE	40,5%
1006	3	1014,232793	Non-Empty	554,05355	317,370476	0	0	TRUE	323,6919781	0	322,3521589	407,5513023	0	0	TRUE	40,2%	295,2829652	0	0	TRUE	29,1%
1007	1	914,0344515	Non-Empty	642,3757207	279,899446	0	0	TRUE	275,6728002	0	295,2325315	274,324361	0	0	TRUE	30,0%	321,9894091	0	0	TRUE	35,2%
1007	2	914,0344515	Non-Empty	713,9480639	338,9914183	0	0	TRUE	322,2844016	0	328,1268072	304,8890861	0	0	TRUE	33,4%	280,4423885	0	0	TRUE	30,7%
1007	3	914,0344515	Non-Empty	632,4595537	295,1435872	0	0	TRUE	316,0772497	0	290,6751128	334,8210044	0	0	TRUE	36,6%	311,6026539	0	0	TRUE	34,1%
1008	1	785,4051078	Non-Empty	564,3511639	242,1590143	0	0	TRUE	231,2669094	0	257,8043054	234,052961	0	0	TRUE	29,8%	254,7259809	0	0	TRUE	32,4%
1008	2	785,4051078	Non-Empty	607,359569	295,8693019	0	0	TRUE	295,6790704	0	277,4512074	251,8898066	0	0	TRUE	32,1%	286,5667285	0	0	TRUE	36,5%
1008	3	785,4051078	Non-Empty	547,5944818	247,3767916	0	0	TRUE	258,459137	0	250,1495949	299,4623403	0	0	TRUE	38,1%	244,1123984	0	0	TRUE	31,1%
1009	1	848,966377	Non-Empty	413,4257013	262,0860744	0	0	TRUE	257,7209042	0	272,1042792	268,19336	0	0	TRUE	31,6%	297,138232	41,42670703	0,04879664	FALSE	35,0%
1009	2	848,966377	Non-Empty	342,4240556	204,1799394	0	0	TRUE	212,9102799	0	225,3731457	222,133887	0	0	TRUE	26,2%	297,138232	41,42670703	0,04879664	FALSE	35,0%
1009	3	848,966377	Non-Empty	534,03999	382,7003632	0	0	TRUE	378,3351929	0	351,4889521	358,6391301	0	0	TRUE	42,2%	254,6899131	41,42670703	0,04879664	FALSE	30,0%
1010	1	1775,10214	Empty	758,1056875	596,9218244	150,4982821	0,084782886	FALSE	592,1108231	0,072285936	592,1108231	558,5350356	174,4520668	0,098277199	FALSE	31,5%	652,9111321	215,1516961	0,121205249</		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1024	1	1054,237558	Empty	512,8196544	332,3634637	101,8006235	0,096563268	FALSE	328,7350815	0,121635784	328,7350815	337,9645623	118,3328437	0,112244952	FALSE	32,1%	344,014361	134,998978	0,12805366	FALSE	32,6%
1024	2	1054,237558	Empty	522,7291892	333,5641412	101,8006235	0,096563268	FALSE	321,2269016	0,121635784	321,2269016	344,4952629	118,3328437	0,112244952	FALSE	32,7%	355,1115985	134,998978	0,12805366	FALSE	33,7%
1024	3	1054,237558	Empty	549,1721394	388,309953	101,8006235	0,096563268	FALSE	404,2755749	0,121635784	404,2755749	371,7777327	118,3328437	0,112244952	FALSE	35,3%	355,1115985	134,998978	0,12805366	FALSE	33,7%
1025	1	1231,034529	Empty	609,4744383	427,6659815	109,7822372	0,089178845	FALSE	391,3657788	0,22150402	391,3657788	413,972022	94,89057846	0,07708198	FALSE	33,6%	364,285728	101,1362711	0,082155511	FALSE	29,6%
1025	2	1231,034529	Empty	514,9893746	370,0553063	109,7822372	0,089178845	FALSE	370,629492	0,22150402	370,629492	349,7951338	94,89057846	0,07708198	FALSE	28,4%	401,9704584	101,1362711	0,082155511	FALSE	32,7%
1025	3	1231,034529	Empty	543,0954784	433,3132412	109,7822372	0,089178845	FALSE	469,0392581	0,22150402	469,0392581	467,2673732	94,89057846	0,07708198	FALSE	38,0%	464,7783426	101,1362711	0,082155511	FALSE	37,8%
1026	1	1085,981375	Non-Empty	552,8295127	383,5955323	0	0	TRUE	375,5431093	0	382,5120045	314,4771795	0	0	TRUE	29,0%	369,9496993	0	0	TRUE	34,1%
1026	2	1085,981375	Non-Empty	524,274371	366,1345085	0	0	TRUE	369,1762034	0	362,7542234	298,2335814	0	0	TRUE	27,5%	346,0819768	0	0	TRUE	31,9%
1026	3	1085,981375	Non-Empty	492,4221639	336,2513346	0	0	TRUE	341,2620627	0	340,7151475	473,2706146	0	0	TRUE	43,6%	369,9496993	0	0	TRUE	34,1%
1027	1	1753,623468	Empty	769,0651917	579,8682328	116,5873616	0,066483691	FALSE	572,0405872	0,150002314	572,0405872	499,9950048	239,1584392	0,136379584	FALSE	28,5%	521,3475174	136,6209881	0,077907824	FALSE	29,7%
1027	2	1753,623468	Empty	781,1005252	630,3906553	116,5873616	0,066483691	FALSE	661,0500985	0,150002314	661,0500985	507,8195777	239,1584392	0,136379584	FALSE	29,0%	616,1379752	136,6209881	0,077907824	FALSE	35,1%
1027	3	1753,623468	Empty	747,5656906	543,3645797	116,5873616	0,066483691	FALSE	520,5327821	0,150002314	520,5327821	745,8088853	239,1584392	0,136379584	FALSE	42,5%	616,1379752	136,6209881	0,077907824	FALSE	35,1%
1028	1	913,3703069	Non-Empty	695,8652004	344,7919307	0	0	TRUE	346,5363263	0	322,3324376	291,7318839	0	0	TRUE	31,9%	286,755794	0	0	TRUE	31,4%
1028	2	913,3703069	Non-Empty	646,9151112	311,1549589	0	0	TRUE	328,2124719	0	299,6582162	271,2102344	0	0	TRUE	29,7%	339,8587189	0	0	TRUE	37,2%
1028	3	913,3703069	Non-Empty	629,0429914	257,4234174	0	0	TRUE	238,6215087	0	291,3796532	350,4281886	0	0	TRUE	38,4%	286,755794	0	0	TRUE	31,4%
1029	1	1028,321158	Non-Empty	634,8419958	309,6690919	0	0	TRUE	299,6638132	0	330,7394404	305,8084838	0	0	TRUE	29,7%	260,0352353	0	0	TRUE	25,3%
1029	2	1028,321158	Non-Empty	676,3294544	351,5344044	0	0	TRUE	341,9069795	0	352,3535411	325,7933255	0	0	TRUE	31,7%	413,6924198	0	0	TRUE	40,2%
1029	3	1028,321158	Non-Empty	662,6525831	367,1176616	0	0	TRUE	386,7503651	0	345,2281764	396,7193486	0	0	TRUE	38,6%	354,5935027	0	0	TRUE	34,5%
1030	1	631,8231546	Non-Empty	420,7461098	288,0794432	0	0	TRUE	288,0794432	0	258,1386262	219,6967886	2,049321222	0,003243504	FALSE	34,8%	229,7538744	0	0	TRUE	36,4%
1030	2	631,8231546	Non-Empty	283,7630395	151,0963728	0	0	TRUE	151,0963728	0	174,0959678	148,1697086	2,049321222	0,003243504	FALSE	23,5%	210,6077182	0	0	TRUE	33,3%
1030	3	631,8231546	Non-Empty	325,3140052	192,6473386	0	0	TRUE	192,6473386	0	199,5885605	263,9566573	2,049321222	0,003243504	FALSE	41,8%	191,461562	0	0	TRUE	30,3%
1031	1	993,5311817	Non-Empty	666,1082623	365,3856059	0	0	TRUE	368,4561183	0	347,4175105	319,697352	0	0	TRUE	32,2%	337,4256843	0	0	TRUE	34,0%
1031	2	993,5311817	Non-Empty	577,1121018	287,2885548	0	0	TRUE	301,2581766	0	301,0003944	276,9838196	0	0	TRUE	27,9%	299,9339416	0	0	TRUE	30,2%
1031	3	993,5311817	Non-Empty	661,6903241	340,857021	0	0	TRUE	323,8168868	0	345,1132768	396,8500101	0	0	TRUE	39,9%	356,1715557	0	0	TRUE	35,8%
1032	1	1677,805987	Empty	778,1693359	611,07074	144,1087703	0,0858912	FALSE	603,5035725	0,014077841	603,5035725	546,1724546	189,6712342	0,113047179	FALSE	32,6%	505,1458884	230,6978004	0,137499688	FALSE	30,1%
1032	2	1677,805987	Empty	638,573265	490,8104907	144,1087703	0,0858912	FALSE	502,5791447	0,014077841	502,5791447	448,1943858	189,6712342	0,113047179	FALSE	26,7%	595,3505114	230,6978004	0,137499688	FALSE	35,5%
1032	3	1677,805987	Empty	739,6576708	575,9247558	144,1087703	0,0858912	FALSE	571,7232693	0,014077841	571,7232693	683,4391461	189,6712342	0,113047179	FALSE	40,7%	577,3095868	230,6978004	0,137499688	FALSE	34,4%
1033	1	833,1222552	Non-Empty	550,1533048	323,3430948	0	0	TRUE	328,0239856	0	300,0433981	266,596647	0	0	TRUE	32,0%	250,9404383	0	0	TRUE	30,1%
1033	2	833,1222552	Non-Empty	473,7337352	246,2964308	0	0	TRUE	250,3502272	0	258,3655837	229,5647854	0	0	TRUE	27,6%	291,0909085	0	0	TRUE	34,9%
1033	3	833,1222552	Non-Empty	503,7085175	263,4827296	0	0	TRUE	254,7480424	0	274,7132735	336,9608228	0	0	TRUE	40,4%	291,0909085	0	0	TRUE	34,9%
1034	1	1463,118618	Empty	737,1687486	492,7969478	178,8189743	0,122217688	FALSE	461,011405	0,165875937	461,011405	496,067186	177,9078553	0,121594964	FALSE	33,9%	505,769399	171,0492413	0,116907296	FALSE	34,6%
1034	2	1463,118618	Empty	668,826811	454,2588118	178,8189743	0,122217688	FALSE	452,2770708	0,165875937	452,2770708	450,0774547	177,9078553	0,121594964	FALSE	30,8%	433,5166277	171,0492413	0,116907296	FALSE	29,6%
1034	3	1463,118618	Empty	694,8818332	516,0628589	178,8189743	0,122217688	FALSE	549,8301427	0,165875937	549,8301427	516,9739778	177,9078553	0,121594964	FALSE	35,3%	523,8325918	171,0492413	0,116907296	FALSE	35,8%
1035	1	1423,063086	Empty	593,6141719	494,0085895	151,7767163	0,106654946	FALSE	496,0674235	0,026113815	496,0674235	423,1570262	222,0244866	0,156018724	FALSE	29,7%	521,7897982	162,8865322	0,114461919	FALSE	36,7%
1035	2	1423,063086	Empty	583,4223311	477,0364538	151,7767163	0,106654946	FALSE	472,3149928	0,026113815	472,3149928	415,8917869	222,0244866	0,156018724	FALSE	29,2%	458,5425499	162,8865322	0,114461919	FALSE	32,2%
1035	3	1423,063086	Empty	551,019832	452,0180426	151,7767163	0,106654946	FALSE	454,6806696	0,026113815	454,6806696	584,0142728	222,0244866	0,156018724	FALSE	41,0%	442,7307379	162,8865322	0,114461919	FALSE	31,1%
1036	1	933,5285135	Non-Empty	596,6162018	345,0712905	0	0	TRUE	330,9128815	0	338,4348851	300,3226604	0	0	TRUE	32,2%	311,1761712	0	0	TRUE	33,3%
1036	2	933,5285135	Non-Empty	532,3711157	291,2637345	0	0	TRUE	287,5428555	0	301,9913921	267,9831847	0	0	TRUE	28,7%	299,6511278	0	0	TRUE	32,1%
1036	3	933,5285135	Non-Empty	516,7007029	297,1934885	0	0	TRUE	315,0727765	0	293,1022363	365,2226685	0	0	TRUE	39,1%	322,7012146	0	0	TRUE	34,6%
1037	1	1284,956948	Empty	596,6665133	459,2180506	96,37987899	0,07500631	FALSE	488,1753984	0,169191561	488,1753984	375,7594663	179,8384633	0,139956801	FALSE	29,2%	475,9099809	80,90438298	0,062962719	FALSE	37,0%
1037	2	1284,956948	Empty	604,5217333	428,2756511	96,37987899	0,07500631	FALSE	418,4353794	0,169191561	418,4353794	380,706406	179,8384633	0,139956801	FALSE	29,6%	444,1826488	80,90438298	0,062962719	FALSE	34,6%
1037	3	1284,956948	Empty	582,9861333	397,4632466	96,37987899	0,07500631	FALSE	378,3461705	0,169191561	378,3461705	528,4910761	179,8384633	0,139956801	FALSE	41,1%	364,8643187	80,90438298	0,062962719	FALSE	28,4%
1038	1	849,8104104	Non-Empty	541,8763125	284,4451264	0	0	TRUE	278,634731	0	286,9694909	263,9354635	0	0	TRUE	31,1%	293,0380726	0	0	TRUE	34,5%
1038	2	849,8104104	Non-Empty	510,4811294	270,4811294	0	0	TRUE	282,1019201	0	270,3430773	248,6435933	0	0	TRUE	29,3%	302,8060083	0	0	TRUE	35,6%
1038	3	849,8104104	Non-Empty	552,3153407	294,8841546	0	0	TRUE	289,0737593	0	292,4978422	337,2313536	0	0	TRUE	39,7%	253,9663295	0	0	TRUE	29,9%
1039	1	921,2368411	Empty	429,5171111	330,6500357	76,65018711	0,083203563	FALSE	340,1816949	0,101270234	340,1816949	283,8133775	123,4868454	0,134044623	FALSE	30,8%	334,1741482	79,60707126	0,086413252	FALSE	36,3%
1039	2	921,2368411	Empty	399,1276157	291,6005852	76,65018711	0,083203563	FALSE	292,4722892	0,101270234	292,4722892	263,7328147	123,4868454	0,134044623	FALSE	28,6%	279,9837458	79,60707126	0,086413252	FALSE	30,4%
1039	3	921,2368411	Empty	417,7883178	298,9862201	76,65018711	0,083203563	FALSE	288,5828569	0,101270234	288,5828569	373,6906488	123,4868454	0,134044623	FALSE	40,6%	307,078947	79,60707126	0,086413252	FALSE	33,3%
1040	1	1567,40416	Empty	691,7982658</																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1055	1	1215,699897	Non-Empty	710,6651437	417,6635397	0	0	TRUE	407,1309611	0	418,7642974	379,6725511	0	0	TRUE	31,2%	494,2955627	6,825643082	0,005614579	FALSE	40,7%
1055	2	1215,699897	Non-Empty	649,8941282	358,5112198	0	0	TRUE	349,5973368	0	382,9545608	347,2056619	0	0	TRUE	28,6%	427,498865	6,825643082	0,005614579	FALSE	35,2%
1055	3	1215,699897	Non-Empty	702,5477018	439,5251379	0	0	TRUE	458,9715995	0	413,9810392	488,8216844	0	0	TRUE	40,2%	293,9054697	6,825643082	0,005614579	FALSE	24,2%
1056	1	881,6129523	Non-Empty	621,8184779	337,7236654	0	0	TRUE	340,5993496	0	314,6028892	271,372486	0	0	TRUE	30,8%	317,3806628	0	0	TRUE	36,0%
1056	2	881,6129523	Non-Empty	570,0283571	266,7321225	0	0	TRUE	250,4063845	0	288,4001915	248,7703693	0	0	TRUE	28,2%	270,3613054	0	0	TRUE	30,7%
1056	3	881,6129523	Non-Empty	550,6776074	277,1571644	0	0	TRUE	290,6072181	0	278,6098716	361,4700971	0	0	TRUE	41,0%	293,8709841	0	0	TRUE	33,3%
1057	1	1034,794551	Empty	485,6987624	316,9440778	85,56045384	0,082683518	FALSE	296,371403	0,275484497	296,371403	341,4877851	140,5571023	0,135830926	FALSE	33,0%	356,4292341	107,3054372	0,103697335	FALSE	34,4%
1057	2	1034,794551	Empty	461,022594	293,6853864	85,56045384	0,082683518	FALSE	274,5301886	0,275484497	274,5301886	324,1383276	140,5571023	0,135830926	FALSE	31,3%	275,9452135	107,3054372	0,103697335	FALSE	26,7%
1057	3	1034,794551	Empty	532,6192236	424,1650864	85,56045384	0,082683518	FALSE	463,8929589	0,275484497	463,8929589	369,1684379	140,5571023	0,135830926	FALSE	35,7%	402,420103	107,3054372	0,103697335	FALSE	38,9%
1058	1	1291,705592	Empty	585,5278647	483,97719	78,64914804	0,060887828	FALSE	475,2822421	0,024205744	475,2822421	384,6740789	168,0090096	0,130067572	FALSE	29,8%	486,1257606	115,1975529	0,089182515	FALSE	37,6%
1058	2	1291,705592	Empty	532,7162685	442,5847841	78,64914804	0,060887828	FALSE	445,3090264	0,024205744	445,3090264	349,9784592	168,0090096	0,130067572	FALSE	27,1%	402,7899159	115,1975529	0,089182515	FALSE	31,2%
1058	3	1291,705592	Empty	452,0286394	365,1436183	78,64914804	0,060887828	FALSE	371,1143239	0,024205744	371,1143239	557,0530543	168,0090096	0,130067572	FALSE	43,1%	402,7899159	115,1975529	0,089182515	FALSE	31,2%
1059	1	1278,758216	Empty	635,292402	461,161937	101,4124135	0,079305386	FALSE	489,9246705	0,227692821	489,9246705	403,1171779	159,4571726	0,12469689	FALSE	31,5%	489,4012924	80,46402943	0,062923568	FALSE	38,3%
1059	2	1278,758216	Empty	623,7119355	379,8990279	101,4124135	0,079305386	FALSE	338,9793187	0,227692821	338,9793187	395,7689317	159,4571726	0,12469689	FALSE	30,9%	347,3170462	80,46402943	0,062923568	FALSE	27,2%
1059	3	1278,758216	Empty	628,4334735	347,6972507	101,4124135	0,079305386	FALSE	449,8542264	0,227692821	449,8542264	479,872106	159,4571726	0,12469689	FALSE	37,5%	442,039877	80,46402943	0,062923568	FALSE	34,6%
1060	1	1185,728834	Non-Empty	767,8994382	392,7944661	0	0	TRUE	390,5747127	0	395,1252328	354,607391	0	0	TRUE	29,9%	463,3882799	0	0	TRUE	39,1%
1060	2	1185,728834	Non-Empty	809,0665553	416,1377364	0	0	TRUE	396,094176	0	416,3079111	373,6179062	0	0	TRUE	31,5%	340,7266764	0	0	TRUE	28,7%
1060	3	1185,728834	Non-Empty	727,418616	376,7966513	0	0	TRUE	399,0599451	0	374,2956899	457,5035366	0	0	TRUE	38,6%	381,6138775	0	0	TRUE	32,2%
1061	1	885,3259137	Non-Empty	665,1826989	304,8141895	0	0	TRUE	295,555386	0	303,7690931	294,0112025	0	0	TRUE	33,2%	254,4039982	0	0	TRUE	28,7%
1061	2	885,3259137	Non-Empty	628,8526046	267,9191826	0	0	TRUE	258,0954665	0	287,1782229	277,9532763	0	0	TRUE	31,4%	315,4609578	0	0	TRUE	35,6%
1061	3	885,3259137	Non-Empty	644,619728	312,5925417	0	0	TRUE	331,6750612	0	294,3785977	313,3614349	0	0	TRUE	35,4%	315,4609578	0	0	TRUE	35,6%
1062	1	937,5444449	Non-Empty	525,4836472	335,5925945	0	0	TRUE	323,6219684	0	340,0133347	294,4256996	0	0	TRUE	31,4%	279,0310848	0	0	TRUE	29,8%
1062	2	937,5444449	Non-Empty	400,9251757	277,6680739	0	0	TRUE	309,9814181	0	259,4179793	224,6362489	0	0	TRUE	24,0%	390,6435187	0	0	TRUE	41,7%
1062	3	937,5444449	Non-Empty	522,5469211	324,2837764	0	0	TRUE	303,9410584	0	338,1131308	418,4824964	0	0	TRUE	44,6%	267,8698414	0	0	TRUE	28,6%
1063	1	776,3503885	Non-Empty	502,0231806	274,7155003	0	0	TRUE	266,6752929	0	271,7603656	246,2221396	0	0	TRUE	31,7%	292,1748774	0	0	TRUE	37,6%
1063	2	776,3503885	Non-Empty	480,8074202	248,8099173	0	0	TRUE	236,0798873	0	260,2756315	235,8166642	0	0	TRUE	30,4%	242,0877555	0	0	TRUE	31,2%
1063	3	776,3503885	Non-Empty	451,3222063	252,8249708	0	0	TRUE	273,5952082	0	244,3143913	294,3115847	0	0	TRUE	37,9%	242,0877555	0	0	TRUE	31,2%
1064	1	1074,700457	Non-Empty	708,5747864	378,5747864	0	0	TRUE	378,5747864	0	368,8213678	329,1422133	0	0	TRUE	30,6%	336,5223653	0	0	TRUE	31,3%
1064	2	1074,700457	Non-Empty	695,7285891	365,7285891	0	0	TRUE	365,7285891	0	362,1347737	323,1749874	0	0	TRUE	30,1%	369,0890458	0	0	TRUE	34,3%
1064	3	1074,700457	Non-Empty	660,3970814	330,3970814	0	0	TRUE	330,3970814	0	343,7443154	422,3832562	0	0	TRUE	39,3%	369,0890458	0	0	TRUE	34,3%
1065	1	1106,509797	Non-Empty	704,1735405	398,3053598	0	0	TRUE	405,444582	0	380,9155366	333,4352084	0	0	TRUE	30,1%	470,2666638	0	0	TRUE	42,5%
1065	2	1106,509797	Non-Empty	693,4139744	368,3076332	0	0	TRUE	356,2086947	0	375,0952584	328,3404158	0	0	TRUE	29,7%	304,2901942	0	0	TRUE	27,5%
1065	3	1106,509797	Non-Empty	647,9444908	339,8968042	0	0	TRUE	344,8565205	0	350,4990023	444,7341731	0	0	TRUE	40,2%	331,9529392	0	0	TRUE	30,0%
1066	1	1381,060482	Non-Empty	702,438385	395,6788293	0	0	TRUE	399,4485902	0	419,4800563	382,2841215	0	0	TRUE	27,7%	514,2246474	0	0	TRUE	37,2%
1066	2	1381,060482	Non-Empty	800,3952389	480,1203754	0	0	TRUE	470,3748286	0	477,9776377	435,5946333	0	0	TRUE	31,5%	455,4561163	0	0	TRUE	33,0%
1066	3	1381,060482	Non-Empty	809,8148078	505,261277	0	0	TRUE	511,2370629	0	483,6027877	563,181727	0	0	TRUE	40,8%	411,379718	0	0	TRUE	29,8%
1067	1	1274,560204	Non-Empty	749,4981559	459,3094016	0	0	TRUE	478,4812613	0	433,6975789	376,5412638	0	0	TRUE	29,5%	411,148453	0	0	TRUE	32,3%
1067	2	1274,560204	Non-Empty	720,9927223	409,1049621	0	0	TRUE	406,5778158	0	417,2028919	362,2203853	0	0	TRUE	28,4%	342,6237109	0	0	TRUE	26,9%
1067	3	1274,560204	Non-Empty	732,1511681	406,1458407	0	0	TRUE	389,5011273	0	423,6597336	535,7985553	0	0	TRUE	42,0%	520,7880405	0	0	TRUE	40,9%
1068	1	1647,316617	Empty	704,9219144	568,017258	120,1713575	0,072949763	FALSE	580,057664	0,072840035	580,057664	490,5842021	197,6044134	0,119955333	FALSE	29,8%	681,6482552	248,7366955	0,150995075	FALSE	41,4%
1068	2	1647,316617	Empty	680,0951842	520,6202539	120,1713575	0,072949763	FALSE	510,0903861	0,072840035	510,0903861	473,3062578	197,6044134	0,119955333	FALSE	28,7%	549,1055389	248,7366955	0,150995075	FALSE	33,3%
1068	3	1647,316617	Empty	709,1347056	558,6791049	120,1713575	0,072949763	FALSE	557,1685666	0,072840035	557,1685666	683,4261568	197,6044134	0,119955333	FALSE	41,5%	416,5628226	248,7366955	0,150995075	FALSE	25,3%
1069	1	774,3405832	Non-Empty	594,0901937	272,533809	0	0	TRUE	246,6333989	0	276,9071158	264,8737823	0	0	TRUE	34,2%	258,1135277	0	0	TRUE	33,3%
1069	2	774,3405832	Non-Empty	455,0260795	203,4323759	0	0	TRUE	247,4946469	0	212,0889397	202,8723584	0	0	TRUE	26,2%	258,1135277	0	0	TRUE	33,3%
1069	3	774,3405832	Non-Empty	612,1922337	298,7343983	0	0	TRUE	280,2125374	0	285,3445277	306,5944425	0	0	TRUE	39,6%	258,1135277	0	0	TRUE	33,3%
1070	1	1552,37679	Empty	754,9783908	486,8288386	133,8093579	0,086196443	FALSE	490,0030865	0,083447751	490,0030865	478,4834066	121,9736218	0,078572176	FALSE	30,8%	383,3029112	217,1541171	0,139884929	FALSE	24,7%
1070	2	1552,37679	Empty	799,6420863	531,7886222	133,8093579	0,086196443	FALSE	515,2589582	0,083447751	515,2589582	506,7899614	121,9736218	0,078572176	FALSE	32,6%	670,7800946	217,1541171	0,139884929	FALSE	43,2%
1070	3	1552,37679	Empty	751,7277139	523,7593297	133,8093579	0,086196443	FALSE	547,1147458	0,083447751	547,1147458	567,1034225	121,9736218	0,078572176	FALSE	36,5%	498,2937846	217,1541171	0,139884929	FALSE	32,1%
1071	1	1272,193588	Non-Empty	792,4859514	465,0051666	0	0	TRUE	464,9732449	0	447,1845551	380,0975021	0	0	TRUE	29,9%	390,3321236	0	0	TRUE	30,7%
1071	2	1272,193588	Non-Empty	781,5400672	444,8786365	0	0	TRUE	435,6660689	0	441,0080035	374,8475627	0	0	TRUE	29,5%	448,1591049	0	0	TRUE	35,2%
1071	3	1272,193588	Non-Empty	680,5141586	362,3097849	0	0	TRUE	371,5542743	0	384,0010295	517,2485232	0	0	TRUE	40,7%	433,7023596	0	0	TRUE	34,1%

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1086	1	974,6980958	Empty	493,2266069	348,3433011	62,93019255	0,064563779	FALSE	346,9345578	0,017229658	346,9345578	288,3715466	110,0719263	0,112929251	FALSE	29,6%	340,0109636	170,980206	0,175418631	FALSE	34,9%
1086	2	974,6980958	Empty	520,9785963	367,4914996	62,93019255	0,064563779	FALSE	357,4789654	0,017229658	357,4789654	304,5971191	110,0719263	0,112929251	FALSE	31,3%	238,0076746	170,980206	0,175418631	FALSE	24,4%
1086	3	974,6980958	Empty	390,9165802	258,8632951	62,93019255	0,064563779	FALSE	270,2845726	0,017229658	270,2845726	381,7294302	110,0719263	0,112929251	FALSE	39,2%	396,6794576	170,980206	0,175418631	FALSE	40,7%
1087	1	1760,89332	Empty	740,0811632	590,5893489	145,2195878	0,082469271	FALSE	619,2533565	0,115391603	619,2533565	507,593328	228,2156087	0,129602178	FALSE	28,8%	664,4880454	184,7626489	0,104925521	FALSE	37,7%
1087	2	1760,89332	Empty	758,0654253	573,241353	145,2195878	0,082469271	FALSE	566,5731028	0,115391603	566,5731028	519,9280446	228,2156087	0,129602178	FALSE	29,5%	498,366034	184,7626489	0,104925521	FALSE	28,3%
1087	3	1760,89332	Empty	797,2141978	597,0626183	145,2195878	0,082469271	FALSE	575,0668608	0,115391603	575,0668608	733,3719476	228,2156087	0,129602178	FALSE	41,6%	598,0392408	184,7626489	0,104925521	FALSE	34,0%
1088	1	923,666979	Non-Empty	504,9119758	302,329205	0	0	TRUE	317,6154268	0	295,6813668	264,1831875	0	0	TRUE	28,6%	337,684702	0	0	TRUE	36,6%
1088	2	923,666979	Non-Empty	525,0194119	297,1241267	0	0	TRUE	287,0978342	0	307,456477	274,7039254	0	0	TRUE	29,7%	268,161381	0	0	TRUE	29,0%
1088	3	923,666979	Non-Empty	547,3425694	324,2136474	0	0	TRUE	318,953718	0	320,5291353	384,7798661	0	0	TRUE	41,7%	317,820896	0	0	TRUE	34,4%
1089	1	1090,431089	Empty	416,0108908	312,4574441	117,3505845	0,107618524	FALSE	338,0256555	0,116623734	338,0256555	279,7006124	150,1074161	0,137658783	FALSE	25,7%	348,0099219	110,6935005	0,101513522	FALSE	31,9%
1089	2	1090,431089	Empty	557,8693889	415,2348862	117,3505845	0,107618524	FALSE	401,7220415	0,116623734	401,7220415	375,0777039	150,1074161	0,137658783	FALSE	34,4%	382,8109141	110,6935005	0,101513522	FALSE	35,1%
1089	3	1090,431089	Empty	503,9157834	362,7387585	117,3505845	0,107618524	FALSE	350,6833917	0,116623734	350,6833917	435,6527724	150,1074161	0,137658783	FALSE	40,0%	359,6102527	110,6935005	0,101513522	FALSE	33,0%
1090	1	1082,616509	Non-Empty	717,9256877	388,0807471	0	0	TRUE	386,1009984	0	376,1657419	341,9777411	0	0	TRUE	31,6%	347,5065337	0	0	TRUE	32,1%
1090	2	1082,616509	Non-Empty	660,9202282	329,4776923	0	0	TRUE	325,9003483	0	346,2970503	314,8236797	0	0	TRUE	29,1%	374,2378055	0	0	TRUE	34,6%
1090	3	1082,616509	Non-Empty	687,3661684	365,0580693	0	0	TRUE	370,6151622	0	360,1537166	425,815088	0	0	TRUE	39,3%	360,8721696	0	0	TRUE	33,3%
1091	1	1116,464027	Non-Empty	620,5581047	367,0137003	0	0	TRUE	370,6674268	0	366,9541118	315,6076498	0	0	TRUE	28,3%	403,827414	0	0	TRUE	36,2%
1091	2	1116,464027	Non-Empty	670,4527374	398,7293621	0	0	TRUE	384,2041179	0	396,4582637	340,9834005	0	0	TRUE	30,5%	356,3183064	0	0	TRUE	31,9%
1091	3	1116,464027	Non-Empty	597,0475778	350,7209645	0	0	TRUE	361,5924821	0	353,0516513	459,8729766	0	0	TRUE	41,2%	356,3183064	0	0	TRUE	31,9%
1092	1	847,5020522	Non-Empty	597,6394177	248,0356575	0	0	TRUE	245,4038671	0	268,2142637	243,1403354	0	0	TRUE	28,7%	313,889649	0	0	TRUE	37,0%
1092	2	847,5020522	Non-Empty	683,7810704	349,4750946	0	0	TRUE	362,1410886	0	306,8737283	278,1857319	0	0	TRUE	32,8%	290,3479253	0	0	TRUE	34,3%
1092	3	847,5020522	Non-Empty	606,9974734	249,9913001	0	0	TRUE	239,9570965	0	272,4140603	326,1759849	0	0	TRUE	38,5%	243,264478	0	0	TRUE	28,7%
1093	1	1293,125865	Empty	591,561355	464,3913945	84,9844744	0,065720188	FALSE	461,4631077	0,096799858	461,4631077	379,6912534	146,1450805	0,113016903	FALSE	29,4%	466,5918069	116,205238	0,089863826	FALSE	36,1%
1093	2	1293,125865	Empty	592,8272855	450,9026503	84,9844744	0,065720188	FALSE	433,2196889	0,096799858	433,2196889	380,5037857	146,1450805	0,113016903	FALSE	29,4%	479,9230014	116,205238	0,089863826	FALSE	37,1%
1093	3	1293,125865	Empty	481,4622456	377,8318201	84,9844744	0,065720188	FALSE	398,4430684	0,096799858	398,4430684	532,9308259	146,1450805	0,113016903	FALSE	41,2%	346,6110566	116,205238	0,089863826	FALSE	26,8%
1094	1	1755,557625	Empty	758,6538403	548,149149	161,4896338	0,091987658	FALSE	551,0864291	0,07532112	551,0864291	513,0913622	224,7984911	0,128049622	FALSE	29,2%	649,5563211	244,1366472	0,139065015	FALSE	37,0%
1094	2	1755,557625	Empty	807,3204054	609,3143008	161,4896338	0,091987658	FALSE	624,7501676	0,07532112	624,7501676	546,0054436	224,7984911	0,128049622	FALSE	31,1%	526,6672874	244,1366472	0,139065015	FALSE	30,0%
1094	3	1755,557625	Empty	829,9092929	598,0941748	161,4896338	0,091987658	FALSE	579,721028	0,07532112	579,721028	696,4608189	224,7984911	0,128049622	FALSE	39,7%	579,3340161	244,1366472	0,139065015	FALSE	33,0%
1095	1	793,8928597	Non-Empty	520,4949699	310,4233996	0	0	TRUE	297,184141	0	298,4833041	263,0725516	0	0	TRUE	33,1%	299,7350593	0	0	TRUE	37,8%
1095	2	793,8928597	Non-Empty	387,3532602	224,02892	0	0	TRUE	257,5368916	0	222,1317931	195,7790496	0	0	TRUE	24,7%	234,9274789	0	0	TRUE	29,6%
1095	3	793,8928597	Non-Empty	476,5415647	259,44054	0	0	TRUE	239,1718271	0	273,2777625	335,0412584	0	0	TRUE	42,2%	259,2303215	0	0	TRUE	32,7%
1096	1	1297,079262	Non-Empty	751,6911023	442,6490091	0	0	TRUE	427,7498442	0	447,3500071	389,8225086	0	0	TRUE	30,1%	436,5170595	0	0	TRUE	33,7%
1096	2	1297,079262	Non-Empty	747,5962035	445,9960862	0	0	TRUE	438,5388971	0	444,9130314	387,6989186	0	0	TRUE	29,9%	411,5732275	0	0	TRUE	31,7%
1096	3	1297,079262	Non-Empty	680,2207416	408,4341672	0	0	TRUE	430,7905211	0	404,816224	519,5578353	0	0	TRUE	40,1%	448,9889755	0	0	TRUE	34,6%
1097	1	1319,377231	Non-Empty	780,3182464	387,4632311	0	0	TRUE	383,7868494	0	413,9807354	376,6966	0	0	TRUE	28,6%	372,8674782	0	0	TRUE	28,3%
1097	2	1319,377231	Non-Empty	864,7113784	484,4109714	0	0	TRUE	493,2891979	0	458,753661	417,4371646	0	0	TRUE	31,6%	444,5727625	0	0	TRUE	33,7%
1097	3	1319,377231	Non-Empty	841,8835066	447,5030282	0	0	TRUE	442,3011834	0	446,6428342	525,2434661	0	0	TRUE	39,8%	501,9369899	0	0	TRUE	38,0%
1098	1	1201,023577	Non-Empty	680,5977615	430,485999	0	0	TRUE	436,0797773	0	415,3230335	359,7200104	0	0	TRUE	30,0%	457,5327914	0	0	TRUE	38,1%
1098	2	1201,023577	Non-Empty	635,2025513	389,5507257	0	0	TRUE	399,604441	0	387,6213902	335,7270348	0	0	TRUE	28,0%	414,6390922	0	0	TRUE	34,5%
1098	3	1201,023577	Non-Empty	652,3398871	380,9868526	0	0	TRUE	365,339359	0	398,0791536	505,5765322	0	0	TRUE	42,1%	328,8516938	0	0	TRUE	27,4%
1099	1	1336,549555	Non-Empty	707,4617994	405,0696707	0	0	TRUE	428,5885169	0	408,5749089	369,2646419	0	0	TRUE	27,6%	493,9422269	0	0	TRUE	37,0%
1099	2	1336,549555	Non-Empty	807,9929008	463,6250827	0	0	TRUE	445,1682396	0	466,6338537	421,7375544	0	0	TRUE	31,6%	406,7759516	0	0	TRUE	30,4%
1099	3	1336,549555	Non-Empty	798,8277799	467,8548018	0	0	TRUE	462,7927987	0	461,3407927	545,547359	0	0	TRUE	40,8%	435,8313767	0	0	TRUE	32,6%
1100	1	727,6837291	Non-Empty	482,0031946	272,173572	0	0	TRUE	267,3548614	0	261,2211075	228,1416039	0	0	TRUE	31,4%	239,8048653	0	0	TRUE	33,0%
1100	2	727,6837291	Non-Empty	429,6212345	233,540813	0	0	TRUE	242,4713036	0	232,8327611	203,3481907	0	0	TRUE	27,9%	239,8048653	0	0	TRUE	33,0%
1100	3	727,6837291	Non-Empty	431,0920363	221,9693442	0	0	TRUE	217,8575642	0	233,6298605	296,1939345	0	0	TRUE	40,7%	248,0739986	0	0	TRUE	34,1%
1101	1	1258,577985	Non-Empty	773,6509475	421,8136207	0	0	TRUE	441,8339046	0	410,1256093	379,103315	0	0	TRUE	30,1%	453,6734597	0	0	TRUE	36,0%
1101	2	1258,577985	Non-Empty	778,3628005	396,4950478	0	0	TRUE	386,4849058	0	412,6234432	381,6204877	0	0	TRUE	30,3%	380,500321	0	0	TRUE	30,2%
1101	3	1258,577985	Non-Empty	822,1370691	440,2693164	0	0	TRUE	430,2591744	0	435,8289323	497,6471657	0	0	TRUE	39,5%	424,4042042	0	0	TRUE	33,7%
1102	1	1577,011056	Empty	727,9839219	569,2955219	133,1812132	0,084451667	FALSE	564,8171687	0,03207445	564,8171687	506,4759824	187,1701667	0,118686655	FALSE	32,1%	589,2129221	181,3941932	0,115024047	FALSE	37,4%
1102	2	1577,011056	Empty	628,3523099	474,2683832	133,1812132	0,084451667	FALSE	474,3945035	0,03207445	474,3945035	437,1598656	187,1701667	0,118686655	FALSE	27,7%	502,563963	181,3941932	0,115024047	FALSE	31,9%
1102	3	1577,011056	Empty	683,3049654	533,4471512	133,1812132	0,084451667	FALSE	537,7993841	0,03207445	537,7993841	633,37									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1117	1	1481,350763	Empty	738,6826388	542,5415926	150,8686403	0,101845319	FALSE	531,1220791	0,058888067	531,1220791	469,8213369	190,4948819	0,128595392	FALSE	31,7%	509,2143247	151,1018941	0,102002779	FALSE	34,4%
1117	2	1481,350763	Empty	696,8468578	501,8703381	150,8686403	0,101845319	FALSE	491,6153511	0,058888067	491,6153511	443,2126939	190,4948819	0,128595392	FALSE	29,9%	478,3528505	151,1018941	0,102002779	FALSE	32,3%
1117	3	1481,350763	Empty	599,9858641	436,9388321	150,8686403	0,101845319	FALSE	458,6133327	0,058888067	458,6133327	568,316732	190,4948819	0,128595392	FALSE	38,4%	493,7835876	151,1018941	0,102002779	FALSE	33,3%
1118	1	1106,060099	Empty	482,8896994	358,0715651	11,39655142	0,010303736	FALSE	351,85624	0,044073572	351,85624	293,3279036	93,24190272	0,084300937	FALSE	26,5%	395,0214638	48,52499004	0,043871929	FALSE	35,7%
1118	2	1106,060099	Empty	556,9365184	434,3450703	11,39655142	0,010303736	FALSE	430,3564312	0,044073572	430,3564312	338,3071157	93,24190272	0,084300937	FALSE	30,6%	434,5236102	48,52499004	0,043871929	FALSE	39,3%
1118	3	1106,060099	Empty	422,0423082	313,6434633	11,39655142	0,010303736	FALSE	323,8474275	0,044073572	323,8474275	474,4250793	93,24190272	0,084300937	FALSE	42,9%	276,5150247	48,52499004	0,043871929	FALSE	25,0%
1119	1	1686,402569	Empty	779,4417983	614,963362	93,16059475	0,055242204	FALSE	605,5708653	0,058857216	605,5708653	505,7628949	200,4067564	0,118836842	FALSE	30,0%	509,8426371	176,9944357	0,104953846	FALSE	30,2%
1119	2	1686,402569	Empty	713,2505274	570,058975	93,16059475	0,055242204	FALSE	581,9533624	0,058857216	581,9533624	462,8128134	200,4067564	0,118836842	FALSE	27,4%	666,7172946	176,9944357	0,104953846	FALSE	39,5%
1119	3	1686,402569	Empty	658,9680623	501,3802317	93,16059475	0,055242204	FALSE	498,878341	0,058857216	498,878341	717,8268604	200,4067564	0,118836842	FALSE	42,6%	509,8426371	176,9944357	0,104953846	FALSE	30,2%
1120	1	1075,074069	Non-Empty	787,6348001	358,5036744	0	0	TRUE	362,5185538	0	356,6062076	329,8635993	0	0	TRUE	30,7%	413,4900264	0	0	TRUE	38,5%
1120	2	1075,074069	Non-Empty	767,4933066	338,0513593	0	0	TRUE	341,7554172	0	347,48703	321,4282869	0	0	TRUE	29,9%	317,0090203	0	0	TRUE	29,5%
1120	3	1075,074069	Non-Empty	819,3839777	378,5190351	0	0	TRUE	370,8000977	0	370,9808312	423,7821825	0	0	TRUE	39,4%	344,575022	0	0	TRUE	32,1%
1121	1	972,8452114	Non-Empty	571,6671484	410,706807	0	0	TRUE	404,5564592	0	386,9430509	309,5864793	13,00961709	0,013372751	FALSE	31,8%	335,8632277	0	0	TRUE	34,5%
1121	2	972,8452114	Non-Empty	444,5872192	291,7070499	0	0	TRUE	293,6368742	0	300,9267465	240,7663136	13,00961709	0,013372751	FALSE	24,7%	254,7927935	0	0	TRUE	26,2%
1121	3	972,8452114	Non-Empty	421,0208243	270,4313544	0	0	TRUE	274,651878	0	284,975414	422,4924185	13,00961709	0,013372751	FALSE	43,4%	382,1891902	0	0	TRUE	39,3%
1122	1	1237,775985	Empty	521,0031984	419,8438542	82,86052436	0,06694307	FALSE	413,7442476	0,08104743	413,7442476	354,7580382	163,4349533	0,132039202	FALSE	28,7%	427,3274233	99,50791366	0,080392506	FALSE	34,5%
1122	2	1237,775985	Empty	512,1961645	429,3356401	82,86052436	0,06694307	FALSE	441,5348534	0,08104743	441,5348534	348,7612112	163,4349533	0,132039202	FALSE	28,2%	456,7982801	99,50791366	0,080392506	FALSE	36,9%
1122	3	1237,775985	Empty	489,7558347	388,5964905	82,86052436	0,06694307	FALSE	382,4968839	0,08104743	382,4968839	534,2567334	163,4349533	0,132039202	FALSE	43,2%	353,6502814	99,50791366	0,080392506	FALSE	28,6%
1123	1	920,051226	Non-Empty	480,7128219	342,6101032	0	0	TRUE	265,6628902	0	260,1341181	233,5517903	0	0	TRUE	25,4%	267,8630152	0	0	TRUE	29,1%
1123	2	920,051226	Non-Empty	597,76078	335,2248106	0	0	TRUE	333,1862318	0	323,4737379	290,4189236	0	0	TRUE	31,6%	361,0327596	0	0	TRUE	39,2%
1123	3	920,051226	Non-Empty	621,7279109	341,2163122	0	0	TRUE	321,202104	0	336,44337	396,0805121	0	0	TRUE	43,0%	291,1554513	0	0	TRUE	31,6%
1124	1	823,5338691	Non-Empty	494,2367571	260,0426366	0	0	TRUE	252,3838426	0	270,780333	221,8085551	0	0	TRUE	26,9%	211,1625305	0	0	TRUE	25,6%
1124	2	823,5338691	Non-Empty	558,7739204	344,1516573	0	0	TRUE	356,0647208	0	306,1386796	250,772194	0	0	TRUE	30,5%	263,9531632	0	0	TRUE	32,1%
1124	3	823,5338691	Non-Empty	450,1291716	219,3395753	0	0	TRUE	215,0853057	0	246,6148566	350,95312	0	0	TRUE	42,6%	348,4181754	0	0	TRUE	42,3%
1125	1	1015,403066	Non-Empty	590,8279553	382,4369054	0	0	TRUE	382,450768	0	365,6723193	314,2705217	0	0	TRUE	31,0%	319,4526499	0	0	TRUE	31,5%
1125	2	1015,403066	Non-Empty	516,7302066	309,7917348	0	0	TRUE	311,2581753	0	319,8121068	274,8567839	0	0	TRUE	27,1%	342,2706964	0	0	TRUE	33,7%
1125	3	1015,403066	Non-Empty	533,0596411	323,1744257	0	0	TRUE	321,6941226	0	329,9186397	426,2757603	0	0	TRUE	42,0%	353,6797196	0	0	TRUE	34,8%
1126	1	983,7096301	Non-Empty	773,3297515	341,7085873	0	0	TRUE	330,4226549	0	338,8990644	323,1896932	0	0	TRUE	32,9%	340,8894758	0	0	TRUE	34,7%
1126	2	983,7096301	Non-Empty	734,6410697	321,1285244	0	0	TRUE	327,9512108	0	321,944385	307,0209331	0	0	TRUE	31,2%	321,4100771	0	0	TRUE	32,7%
1126	3	983,7096301	Non-Empty	736,7445043	320,8725184	0	0	TRUE	325,3357644	0	322,8661806	353,4990038	0	0	TRUE	35,9%	321,4100771	0	0	TRUE	32,7%
1127	1	1145,214972	Empty	532,8455168	373,006086	39,66513772	0,034635539	FALSE	353,7332852	0,112621306	353,7332852	328,1328625	101,19946	0,088367217	FALSE	28,7%	292,6660484	82,71584589	0,072227353	FALSE	25,6%
1127	2	1145,214972	Empty	566,4027721	427,0924143	39,66513772	0,034635539	FALSE	428,3486865	0,112621306	428,3486865	348,7978355	101,19946	0,088367217	FALSE	30,5%	407,1875456	82,71584589	0,072227353	FALSE	35,6%
1127	3	1145,214972	Empty	467,6665731	345,1164717	39,66513772	0,034635539	FALSE	363,1330004	0,112621306	363,1330004	468,284274	101,19946	0,088367217	FALSE	40,9%	445,361378	82,71584589	0,072227353	FALSE	38,9%
1128	1	1394,963621	Empty	604,1148318	436,2672388	93,11961319	0,066754152	FALSE	421,9084532	0,097333296	421,9084532	408,8343541	132,1992826	0,094768982	FALSE	29,3%	495,9870653	245,7006018	0,176134057	FALSE	35,6%
1128	2	1394,963621	Empty	633,384209	480,623882	93,11961319	0,066754152	FALSE	481,3523624	0,097333296	481,3523624	428,6423878	132,1992826	0,094768982	FALSE	30,7%	573,4850442	245,7006018	0,176134057	FALSE	41,1%
1128	3	1394,963621	Empty	617,9310023	478,0725002	93,11961319	0,066754152	FALSE	491,7028054	0,097333296	491,7028054	557,4868792	132,1992826	0,094768982	FALSE	40,0%	325,4915116	245,7006018	0,176134057	FALSE	23,3%
1129	1	1477,905051	Empty	660,1070277	526,513916	119,8137765	0,08107001	FALSE	551,2179459	0,128150211	551,2179459	447,1193145	199,208378	0,134791053	FALSE	30,3%	502,2007454	164,3392886	0,111197461	FALSE	34,0%
1129	2	1477,905051	Empty	624,3495454	453,7003888	119,8137765	0,08107001	FALSE	441,3483738	0,128150211	441,3483738	422,8992103	199,208378	0,134791053	FALSE	28,6%	559,5951163	164,3392886	0,111197461	FALSE	37,9%
1129	3	1477,905051	Empty	668,3399026	497,690746	119,8137765	0,08107001	FALSE	485,338731	0,128150211	485,338731	607,8865259	199,208378	0,134791053	FALSE	41,1%	416,109189	164,3392886	0,111197461	FALSE	28,2%
1130	1	927,8711114	Non-Empty	707,7606538	342,444098	0	0	TRUE	334,4230739	0	328,3951163	309,2506443	0	0	TRUE	33,3%	379,1301315	0	0	TRUE	40,9%
1130	2	927,8711114	Non-Empty	634,1374434	288,6139492	0	0	TRUE	300,3859867	0	294,2345528	277,0815414	0	0	TRUE	29,9%	249,4277181	0	0	TRUE	26,9%
1130	3	927,8711114	Non-Empty	657,8596092	296,8130642	0	0	TRUE	293,0620508	0	305,2414424	341,5389257	0	0	TRUE	36,8%	299,3132617	0	0	TRUE	32,3%
1131	1	968,2563248	Non-Empty	504,0633646	305,9993879	0	0	TRUE	295,9156488	0	318,5377134	293,165794	0	0	TRUE	30,3%	281,1066749	0	0	TRUE	29,0%
1131	2	968,2563248	Non-Empty	462,3368519	286,383662	0	0	TRUE	298,4107098	0	292,1690683	268,8974439	0	0	TRUE	27,8%	406,0429749	0	0	TRUE	41,9%
1131	3	968,2563248	Non-Empty	565,7968213	375,8732749	0	0	TRUE	373,9299662	0	357,5495431	406,1930868	0	0	TRUE	42,0%	281,1066749	0	0	TRUE	29,0%
1132	1	1638,864287	Empty	673,9113521	510,5090569	119,1658111	0,072712434	FALSE	490,1611904	0,136918063	490,1611904	464,5824862	218,0189171	0,133030489	FALSE	28,3%	557,9112468	161,4114997	0,098489851	FALSE	34,0%
1132	2	1638,864287	Empty	701,88802	582,7222089	119,1658111	0,072712434	FALSE	606,6108265	0,136918063	606,6108265	483,8691029	218,0189171	0,133030489	FALSE	29,5%	540,4765203	161,4114997	0,098489851	FALSE	33,0%
1132	3	1638,864287	Empty	692,2282013	545,6330216	119,1658111	0,072712434	FALSE	542,0922705	0,136918063	542,0922705	690,4126983	218,0189171	0,133030489	FALSE	42,1%	540,4765203	161,4114997	0,098489851	FALSE	33,0%
1133	1	1518,608519	Empty	706,5542848	513,0753286																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1148	1	1240,31302	Non-Empty	801,4529219	454,7862553	0	0	TRUE	475,0195374	0	424,6249596	388,9242176	0	0	TRUE	31,4%	413,4376732	0	0	TRUE	33,3%
1148	2	1240,31302	Non-Empty	736,4984741	359,4818842	0	0	TRUE	349,3652431	0	390,2108611	357,4035167	0	0	TRUE	28,8%	400,9092588	0	0	TRUE	32,3%
1148	3	1240,31302	Non-Empty	803,06147	426,0448801	0	0	TRUE	415,928239	0	425,4771989	493,9852852	0	0	TRUE	39,8%	425,9660875	0	0	TRUE	34,3%
1149	1	939,3045579	Non-Empty	460,4095921	316,2188598	0	0	TRUE	319,6495056	0	312,8886009	251,8220724	7,915753507	0,008427249	FALSE	26,8%	313,1015193	0	0	TRUE	33,3%
1149	2	939,3045579	Non-Empty	493,7618186	353,445672	0	0	TRUE	360,7509036	0	335,554357	270,0641485	7,915753507	0,008427249	FALSE	28,8%	356,2879357	0	0	TRUE	37,9%
1149	3	939,3045579	Non-Empty	427,9972815	269,640026	0	0	TRUE	258,9041487	0	290,8616	417,418337	7,915753507	0,008427249	FALSE	44,4%	269,9151028	0	0	TRUE	28,7%
1150	1	1045,252355	Non-Empty	693,8130227	383,6202214	0	0	TRUE	382,2478376	0	367,8068119	336,0955097	0	0	TRUE	32,2%	344,4581624	0	0	TRUE	33,0%
1150	2	1045,252355	Non-Empty	613,2938938	313,9838763	0	0	TRUE	323,4942762	0	325,1217035	297,0905951	0	0	TRUE	28,4%	344,4581624	0	0	TRUE	33,0%
1150	3	1045,252355	Non-Empty	664,6066908	347,6482572	0	0	TRUE	339,5102411	0	352,3238396	412,0662501	0	0	TRUE	39,4%	356,3360301	0	0	TRUE	34,1%
1151	1	979,181675	Empty	458,5647425	341,9977028	58,07941665	0,05931424	FALSE	357,1270423	0,100013042	357,1270423	299,5345273	100,5425922	0,102680222	FALSE	30,6%	389,4472571	69,86243709	0,071347778	FALSE	39,8%
1151	2	979,181675	Empty	432,3495881	297,3075583	58,07941665	0,05931424	FALSE	293,9619077	0,100013042	293,9619077	282,4107863	100,5425922	0,102680222	FALSE	28,8%	267,0495477	69,86243709	0,071347778	FALSE	27,3%
1151	3	979,181675	Empty	483,3564819	339,8764139	58,07941665	0,05931424	FALSE	328,092725	0,100013042	328,092725	397,2363614	100,5425922	0,102680222	FALSE	40,6%	322,6848702	69,86243709	0,071347778	FALSE	33,0%
1152	1	1555,049209	Empty	741,2370314	564,8921065	83,87118988	0,05393475	FALSE	566,1445266	0,030256695	566,1445266	475,6601555	172,9555895	0,11122194	FALSE	30,6%	568,9204425	165,3953887	0,106360228	FALSE	36,6%
1152	2	1555,049209	Empty	690,6383309	510,3885943	83,87118988	0,05393475	FALSE	507,7362027	0,030256695	507,7362027	443,1903993	172,9555895	0,11122194	FALSE	28,5%	567,8844572	165,3953887	0,106360228	FALSE	37,8%
1152	3	1555,049209	Empty	655,965882	479,7685085	83,87118988	0,05393475	FALSE	481,1684801	0,030256695	481,1684801	636,1986546	172,9555895	0,11122194	FALSE	40,9%	398,2443097	165,3953887	0,106360228	FALSE	25,6%
1153	1	1069,903563	Non-Empty	673,3629926	398,307952	0	0	TRUE	376,6103626	0	393,6846701	335,07346	0	0	TRUE	31,3%	408,7272038	0	0	TRUE	38,2%
1153	2	1069,903563	Non-Empty	581,1750975	352,1086149	0	0	TRUE	376,3995833	0	339,786607	289,1996634	0	0	TRUE	27,0%	276,491932	0	0	TRUE	25,8%
1153	3	1069,903563	Non-Empty	575,4378263	319,4869961	0	0	TRUE	316,8936171	0	336,4322859	445,6304396	0	0	TRUE	41,7%	384,6844271	0	0	TRUE	36,0%
1154	1	798,8160822	Non-Empty	544,3024289	223,3036011	0	0	TRUE	222,3169385	0	247,2052174	245,4062046	0	0	TRUE	30,7%	248,981636	0	0	TRUE	31,2%
1154	2	798,8160822	Non-Empty	553,0707186	245,410455	0	0	TRUE	257,7623566	0	251,1875016	249,3595081	0	0	TRUE	31,2%	228,2331663	0	0	TRUE	28,6%
1154	3	798,8160822	Non-Empty	661,4794303	330,1020261	0	0	TRUE	318,7367871	0	300,4233633	304,0503695	0	0	TRUE	38,1%	321,6012798	0	0	TRUE	40,3%
1155	1	966,0713581	Non-Empty	587,7682233	293,8556268	0	0	TRUE	300,2269508	0	304,1507386	264,6644997	0	0	TRUE	27,4%	378,4609444	0	0	TRUE	39,2%
1155	2	966,0713581	Non-Empty	698,2648033	411,4445271	0	0	TRUE	424,9081714	0	361,3290873	314,4196939	0	0	TRUE	32,5%	328,6634517	0	0	TRUE	34,0%
1155	3	966,0713581	Non-Empty	580,8900929	260,7712042	0	0	TRUE	240,9362359	0	300,5915322	386,9871644	0	0	TRUE	40,1%	258,946962	0	0	TRUE	26,8%
1156	1	1189,729418	Empty	513,5364955	374,7744511	88,89274761	0,074716777	FALSE	357,0383116	0,205857672	357,0383116	343,2489727	171,2746412	0,143961004	FALSE	28,9%	378,5502692	78,2384034	0,06576151	FALSE	31,8%
1156	2	1189,729418	Empty	506,4435544	420,8899282	88,89274761	0,074716777	FALSE	456,362207	0,205857672	456,362207	338,5080346	171,2746412	0,143961004	FALSE	28,5%	459,6681841	78,2384034	0,06576151	FALSE	38,6%
1156	3	1189,729418	Empty	532,8270828	394,0650383	88,89274761	0,074716777	FALSE	376,3288989	0,205857672	376,3288989	507,9724103	171,2746412	0,143961004	FALSE	42,7%	351,5109643	78,2384034	0,06576151	FALSE	29,5%
1157	1	1069,701567	Non-Empty	797,9972991	384,5478839	0	0	TRUE	370,6517149	0	376,3152542	326,4978668	0	0	TRUE	30,5%	387,5730316	0	0	TRUE	36,2%
1157	2	1069,701567	Non-Empty	814,1150941	401,1436913	0	0	TRUE	387,7255346	0	383,9159969	333,0924076	0	0	TRUE	31,1%	341,0642678	0	0	TRUE	31,9%
1157	3	1069,701567	Non-Empty	656,2489123	284,0099919	0	0	TRUE	311,3243177	0	309,470316	410,1112928	0	0	TRUE	38,3%	341,0642678	0	0	TRUE	31,9%
1158	1	881,9129751	Empty	450,3010005	284,7884039	66,75922265	0,075698198	FALSE	266,3689593	0,198436018	266,3689593	277,7879454	109,7575598	0,124453957	FALSE	31,5%	293,9709917	74,31931843	0,084270581	FALSE	33,3%
1158	2	881,9129751	Empty	419,087862	301,5310875	66,75922265	0,075698198	FALSE	331,067411	0,198436018	331,067411	258,5327503	109,7575598	0,124453957	FALSE	29,3%	293,9709917	74,31931843	0,084270581	FALSE	33,3%
1158	3	881,9129751	Empty	453,8034068	295,5934568	66,75922265	0,075698198	FALSE	284,4766048	0,198436018	284,4766048	345,5927294	109,7575598	0,124453957	FALSE	39,2%	293,9709917	74,31931843	0,084270581	FALSE	33,3%
1159	1	1569,687145	Empty	632,2465683	484,1966815	100,7002657	0,06415308	FALSE	519,7884064	0,15800092	519,7884064	419,3352021	165,5617451	0,105474359	FALSE	26,7%	544,5853359	102,8645254	0,065531865	FALSE	34,7%
1159	2	1569,687145	Empty	732,103093	548,0524889	100,7002657	0,06415308	FALSE	547,6434966	0,15800092	547,6434966	485,5646734	165,5617451	0,105474359	FALSE	30,9%	560,6025516	102,8645254	0,065531865	FALSE	35,7%
1159	3	1569,687145	Empty	756,2623184	537,4379741	100,7002657	0,06415308	FALSE	502,2552416	0,15800092	502,2552416	664,7872691	165,5617451	0,105474359	FALSE	42,4%	464,4992571	102,8645254	0,065531865	FALSE	29,6%
1160	1	1278,574765	Non-Empty	900,8026258	476,7089703	0	0	TRUE	468,358024	0	455,9910471	400,7062506	0	0	TRUE	31,3%	392,2899847	0	0	TRUE	30,7%
1160	2	1278,574765	Non-Empty	854,8921393	430,7984839	0	0	TRUE	422,4475375	0	432,7509164	380,2837759	0	0	TRUE	29,7%	377,760726	0	0	TRUE	29,5%
1160	3	1278,574765	Non-Empty	770,1081273	371,0673108	0	0	TRUE	387,7692035	0	389,8328016	497,5847386	0	0	TRUE	38,9%	508,5240543	0	0	TRUE	39,8%
1161	1	1584,515066	Empty	727,9125428	532,9447007	158,2310197	0,099860849	FALSE	530,6189146	0,035236538	530,6189146	492,4759284	188,7034951	0,119092269	FALSE	31,1%	596,3228743	205,8986945	0,129944296	FALSE	37,6%
1161	2	1584,515066	Empty	718,6901942	520,7034143	158,2310197	0,099860849	FALSE	515,3586886	0,035236538	515,3586886	486,2364636	188,7034951	0,119092269	FALSE	30,7%	460,0205031	205,8986945	0,129944296	FALSE	29,0%
1161	3	1584,515066	Empty	715,8384974	530,8669521	158,2310197	0,099860849	FALSE	538,5374629	0,035236538	538,5374629	605,802674	188,7034951	0,119092269	FALSE	38,2%	528,1716887	205,8986945	0,129944296	FALSE	33,3%
1162	1	938,4972864	Non-Empty	635,6363201	322,6612743	0	0	TRUE	308,1072699	0	325,3112883	290,9280069	0	0	TRUE	31,0%	319,282582	0	0	TRUE	34,0%
1162	2	938,4972864	Non-Empty	626,3433815	323,5719843	0	0	TRUE	319,2216286	0	320,5552702	286,6746689	0	0	TRUE	30,5%	367,6587307	0	0	TRUE	39,2%
1162	3	938,4972864	Non-Empty	571,7807088	292,2640277	0	0	TRUE	311,1683879	0	292,6307279	360,8946106	0	0	TRUE	38,5%	251,5559737	0	0	TRUE	26,8%
1163	1	1400,91215	Empty	487,3922474	427,8645334	112,944572	0,080622146	FALSE	427,8645334	0,016279112	427,8645334	378,860388	171,3981131	0,122347479	FALSE	27,0%	471,3350466	138,0244165	0,098524652	FALSE	33,6%
1163	2	1400,91215	Empty	529,7573248	470,2296108	112,944572	0,080622146	FALSE	470,2296108	0,016279112	470,2296108	411,7760697	171,3981131	0,122347479	FALSE	29,4%	445,1497662	138,0244165	0,098524652	FALSE	31,8%
1163	3	1400,91215	Empty	562,3460695	502,8183555	112,944572	0,080622146	FALSE	502,8183555	0,016279112	502,8183555	610,2903911	171,3981131	0,122347479	FALSE	43,6%	484,4276868	138,0244165	0,098524652	FALSE	34,6%
1164	1	1074,46136	Empty	531,9912657	380,9844672	57,32712873	0,053354295	FALSE	390,4737649	0,068949185	390,4737649	341,7426686	96,56892733	0,089876594	FALSE	31,8%	353,7860574	91,39730854	0,085063374	FALSE	3

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1179	1	1199,385486	Non-Empty	770,0554485	434,307112	0	0	TRUE	422,9150876	0	425,1381841	377,6352455	0	0	TRUE	31,5%	482,5114023	0	0	TRUE	40,2%
1179	2	1199,385486	Non-Empty	682,3778382	373,5881759	0	0	TRUE	389,1548256	0	376,7324491	334,6381393	0	0	TRUE	27,9%	344,6510016	0	0	TRUE	28,7%
1179	3	1199,385486	Non-Empty	720,0211352	391,4901978	0	0	TRUE	387,3155724	0	397,5148524	487,1121008	0	0	TRUE	40,6%	372,2230817	0	0	TRUE	31,0%
1180	1	1025,385803	Non-Empty	809,868167	393,103274	0	0	TRUE	386,8056642	0	367,9687452	339,1145642	0	0	TRUE	33,1%	338,2716051	0	0	TRUE	33,0%
1180	2	1025,385803	Non-Empty	729,9805692	318,0465613	0	0	TRUE	316,5798367	0	331,6713078	305,6633816	0	0	TRUE	29,8%	369,9845681	0	0	TRUE	36,1%
1180	3	1025,385803	Non-Empty	716,9389163	314,2359677	0	0	TRUE	322,0003022	0	325,74575	380,6078573	0	0	TRUE	37,1%	317,1296298	0	0	TRUE	30,9%
1181	1	1482,340365	Empty	629,6376664	528,3851646	36,89677168	0,02489089	FALSE	540,9179062	0,131974292	540,9179062	428,776946	136,5049902	0,092087481	FALSE	28,9%	468,1074838	97,17445252	0,06555475	FALSE	31,6%
1181	2	1482,340365	Empty	596,688086	458,3832382	36,89677168	0,02489089	FALSE	433,8636337	0,131974292	433,8636337	406,3386118	136,5049902	0,092087481	FALSE	27,4%	561,7289805	97,17445252	0,06555475	FALSE	37,9%
1181	3	1482,340365	Empty	597,3703429	495,5719624	36,89677168	0,02489089	FALSE	507,5588253	0,131974292	507,5588253	647,2248074	136,5049902	0,092087481	FALSE	43,7%	452,503901	97,17445252	0,06555475	FALSE	30,5%
1182	1	1353,86031	Empty	637,7676843	473,0112672	110,1868272	0,081387146	FALSE	482,3548163	0,186453708	482,3548163	411,7279575	173,1031071	0,127858913	FALSE	30,4%	541,5441239	176,2518273	0,130184648	FALSE	40,0%
1182	2	1353,86031	Empty	587,4143661	442,1373084	110,1868272	0,081387146	FALSE	470,9602169	0,186453708	470,9602169	379,2210285	173,1031071	0,127858913	FALSE	28,0%	376,0723083	176,2518273	0,130184648	FALSE	27,8%
1182	3	1353,86031	Empty	650,9781579	438,7117342	110,1868272	0,081387146	FALSE	400,5452766	0,186453708	400,5452766	562,9113238	173,1031071	0,127858913	FALSE	41,6%	436,2438776	176,2518273	0,130184648	FALSE	32,2%
1183	1	1654,545725	Empty	697,5960562	510,8185666	95,89481995	0,057958398	FALSE	499,8929858	0,081710112	499,8929858	490,9501165	122,7812879	0,074208459	FALSE	29,7%	539,1216408	261,4232936	0,158003064	FALSE	32,6%
1183	2	1654,545725	Empty	706,4121377	532,0290512	95,89481995	0,057958398	FALSE	533,4978736	0,081710112	533,4978736	497,1546473	122,7812879	0,074208459	FALSE	30,0%	669,2544507	261,4232936	0,158003064	FALSE	40,4%
1183	3	1654,545725	Empty	778,0932578	611,6981074	95,89481995	0,057958398	FALSE	621,1548659	0,081710112	621,1548659	666,4409615	122,7812879	0,074208459	FALSE	40,3%	446,1696338	261,4232936	0,158003064	FALSE	27,0%
1184	1	1019,40915	Non-Empty	669,6294389	329,6802441	0	0	TRUE	322,579474	0	338,2764095	301,363195	0	0	TRUE	29,6%	405,4468209	0	0	TRUE	39,8%
1184	2	1019,40915	Non-Empty	714,9244811	389,8963021	0	0	TRUE	397,7165477	0	361,158086	321,7481227	0	0	TRUE	31,6%	312,7732618	0	0	TRUE	30,7%
1184	3	1019,40915	Non-Empty	633,4005037	299,8326035	0	0	TRUE	299,1131279	0	319,9746542	396,2977075	0	0	TRUE	38,9%	301,1890669	0	0	TRUE	29,5%
1185	1	1844,355063	Empty	865,1501518	619,7002584	147,3884523	0,079913274	FALSE	655,0146134	0,109939553	655,0146134	550,2625411	216,8261696	0,117562054	FALSE	29,8%	648,5644178	197,8548172	0,107275883	FALSE	35,2%
1185	2	1844,355063	Empty	899,2244781	605,4659505	147,3884523	0,079913274	FALSE	592,4716712	0,109939553	592,4716712	571,9348778	216,8261696	0,117562054	FALSE	31,0%	506,6909514	197,8548172	0,107275883	FALSE	27,5%
1185	3	1844,355063	Empty	922,2731782	619,1888542	147,3884523	0,079913274	FALSE	596,8687785	0,109939553	596,8687785	722,1576441	216,8261696	0,117562054	FALSE	39,2%	689,0996939	197,8548172	0,107275883	FALSE	37,4%
1186	1	1198,061946	Empty	526,847905	403,4684214	95,92461069	0,080066487	FALSE	401,2612994	0,062675113	401,2612994	355,3063494	152,8123194	0,127549598	FALSE	29,7%	323,0728843	165,1192567	0,137821969	FALSE	27,0%
1186	2	1198,061946	Empty	519,2457672	407,0671747	95,92461069	0,080066487	FALSE	416,0609438	0,062675113	416,0609438	350,1794659	152,8123194	0,127549598	FALSE	29,2%	417,3024756	165,1192567	0,137821969	FALSE	34,8%
1186	3	1198,061946	Empty	515,4853589	387,52635	95,92461069	0,080066487	FALSE	380,7397029	0,062675113	380,7397029	492,5761308	152,8123194	0,127549598	FALSE	41,1%	457,6865861	165,1192567	0,137821969	FALSE	38,2%
1187	1	1217,846892	Empty	550,300706	399,5244585	117,5646881	0,096534867	FALSE	395,0815444	0,159709917	395,0815444	371,6185466	168,133041	0,138057618	FALSE	30,5%	437,8775342	216,7709983	0,17799528	FALSE	36,0%
1187	2	1217,846892	Empty	517,8118031	400,247115	117,5646881	0,096534867	FALSE	429,0157602	0,159709917	429,0157602	349,6787621	168,133041	0,138057618	FALSE	28,7%	301,0408048	216,7709983	0,17799528	FALSE	24,7%
1187	3	1217,846892	Empty	588,7343828	418,0753184	117,5646881	0,096534867	FALSE	393,7495874	0,159709917	393,7495874	496,5495832	168,133041	0,138057618	FALSE	40,8%	478,928553	216,7709983	0,17799528	FALSE	39,3%
1188	1	1065,231368	Non-Empty	523,0842234	345,8218157	0	0	TRUE	362,6842208	0	338,1911625	301,4802117	0	0	TRUE	28,3%	362,8810156	0	0	TRUE	34,1%
1188	2	1065,231368	Non-Empty	540,9664106	332,1903154	0	0	TRUE	317,5390329	0	349,7525849	311,7866314	0	0	TRUE	29,3%	316,0576587	0	0	TRUE	29,7%
1188	3	1065,231368	Non-Empty	583,5551725	387,2192372	0	0	TRUE	385,0081147	0	377,2876209	451,9645252	0	0	TRUE	42,4%	386,292694	0	0	TRUE	36,3%
1189	1	1087,775141	Non-Empty	702,5885741	341,1546501	0	0	TRUE	319,7642014	0	362,5676582	345,30051	0	0	TRUE	31,7%	354,9582038	0	0	TRUE	32,6%
1189	2	1087,775141	Non-Empty	686,5619044	328,992543	0	0	TRUE	311,4666569	0	354,2971678	337,4238985	0	0	TRUE	31,0%	343,5079391	0	0	TRUE	31,6%
1189	3	1087,775141	Non-Empty	718,7550877	417,6279474	0	0	TRUE	456,5442823	0	370,9103146	405,0507321	0	0	TRUE	37,2%	389,3089977	0	0	TRUE	35,8%
1190	1	1306,308243	Empty	604,7657809	462,2240134	75,50938752	0,057803652	FALSE	443,0606917	0,140777307	443,0606917	397,2299447	161,4437053	0,123587757	FALSE	30,4%	342,1283492	148,1441729	0,11340675	FALSE	26,2%
1190	2	1306,308243	Empty	527,4838542	432,4029654	75,50938752	0,057803652	FALSE	460,7005225	0,140777307	460,7005225	346,4686477	161,4437053	0,123587757	FALSE	26,5%	435,4360808	148,1441729	0,11340675	FALSE	33,3%
1190	3	1306,308243	Empty	544,1939451	411,6812637	75,50938752	0,057803652	FALSE	402,5470283	0,140777307	402,5470283	562,6096501	161,4437053	0,123587757	FALSE	43,1%	528,7438125	148,1441729	0,11340675	FALSE	40,5%
1191	1	881,1832068	Non-Empty	504,2355743	284,7455908	0	0	TRUE	275,7860253	0	294,2077709	249,9573686	0	0	TRUE	28,4%	263,2105683	0	0	TRUE	29,9%
1191	2	881,1832068	Non-Empty	497,5206534	299,6316903	0	0	TRUE	309,7372444	0	290,2897969	246,6286786	0	0	TRUE	28,0%	331,8741948	0	0	TRUE	37,7%
1191	3	881,1832068	Non-Empty	508,4823323	296,8059257	0	0	TRUE	295,659937	0	296,685639	384,5971596	0	0	TRUE	43,6%	286,0984438	0	0	TRUE	32,5%
1192	1	1400,463668	Empty	681,770735	483,909476	117,5256101	0,083919071	FALSE	481,533539	0,101408958	481,533539	452,5305411	147,150312	0,105072567	FALSE	32,3%	360,5153998	211,6225718	0,151108934	FALSE	25,7%
1192	2	1400,463668	Empty	589,4226191	420,8584746	117,5256101	0,083919071	FALSE	447,779652	0,101408958	447,779652	391,2337727	147,150312	0,105072567	FALSE	27,9%	540,7730997	211,6225718	0,151108934	FALSE	38,6%
1192	3	1400,463668	Empty	715,7262802	495,6957178	117,5256101	0,083919071	FALSE	471,1504774	0,101408958	471,1504774	556,6993547	147,150312	0,105072567	FALSE	39,8%	499,175169	211,6225718	0,151108934	FALSE	35,6%
1193	1	874,1171204	Non-Empty	602,2472825	334,7199673	0	0	TRUE	339,8287121	0	311,1269436	274,3288257	0	0	TRUE	31,4%	285,2382182	0	0	TRUE	32,6%
1193	2	874,1171204	Non-Empty	560,5046482	289,3825251	0	0	TRUE	290,8964621	0	289,562283	255,3146961	0	0	TRUE	29,2%	257,6345197	0	0	TRUE	29,5%
1193	3	874,1171204	Non-Empty	529,2733699	250,014628	0	0	TRUE	243,3919462	0	273,4278937	344,4735985	0	0	TRUE	39,4%	331,2443825	0	0	TRUE	37,9%
1194	1	689,5828398	Non-Empty	381,154219	225,672888	0	0	TRUE	255,1132102	0	211,2250361	185,5031	0	0	TRUE	26,9%	235,6802111	0	0	TRUE	34,2%
1194	2	689,5828398	Non-Empty	428,8316344	241,0682659	0	0	TRUE	238,2265506	0	237,6465298	208,7071153	0	0	TRUE	30,3%	244,4091078	0	0	TRUE	35,4%
1194	3	689,5828398	Non-Empty	434,3619457	222,8416859	0	0	TRUE	196,2430791	0	240,711274	295,3726246	0	0	TRUE	42,8%	209,493521	0	0	TRUE	30,4%
1195	1	1710,566329	Empty	781,0861837	560,8129205	119,483826	0,069850449	FALSE	569,9505955	0,0											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1210	1	680,6477117	Non-Empty	346,5246614	164,3924329	0	0	TRUE	177,2662105	0	186,3534836	170,9616904	0	0	TRUE	25,1%	208,8350934	0	0	TRUE	30,7%
1210	2	680,6477117	Non-Empty	474,9866732	280,0380097	0	0	TRUE	280,0953524	0	255,4375808	234,3398136	0	0	TRUE	34,4%	232,0389926	0	0	TRUE	34,1%
1210	3	680,6477117	Non-Empty	444,1543954	236,2172691	0	0	TRUE	223,2861489	0	238,8566473	275,3462078	0	0	TRUE	40,5%	239,7736257	0	0	TRUE	35,2%
1211	1	1943,809976	Empty	881,0156797	712,3900219	164,7862931	0,084774898	FALSE	709,5737211	0,014652502	709,5737211	610,5733202	261,0142884	0,134279735	FALSE	31,4%	622,0191924	249,5684161	0,128391365	FALSE	32,0%
1211	2	1943,809976	Empty	768,2371617	605,2002103	164,7862931	0,084774898	FALSE	607,972616	0,014652502	607,972616	532,4140368	261,0142884	0,134279735	FALSE	27,4%	680,3334917	249,5684161	0,128391365	FALSE	35,0%
1211	3	1943,809976	Empty	791,9852061	626,2197442	164,7862931	0,084774898	FALSE	626,2636394	0,014652502	626,2636394	800,8226194	261,0142884	0,134279735	FALSE	41,2%	641,4572922	249,5684161	0,128391365	FALSE	33,0%
1212	1	1633,127774	Empty	802,8033804	607,4464412	98,65483869	0,060408524	FALSE	608,0893622	0,044050494	608,0893622	541,8300686	159,0454452	0,097387019	FALSE	33,2%	645,6551664	114,6980609	0,070232142	FALSE	39,5%
1212	2	1633,127774	Empty	642,9411255	452,8099525	98,65483869	0,060408524	FALSE	458,6786396	0,044050494	458,6786396	433,9354351	159,0454452	0,097387019	FALSE	26,6%	436,7667302	114,6980609	0,070232142	FALSE	26,7%
1212	3	1633,127774	Empty	775,3828485	572,8713803	98,65483869	0,060408524	FALSE	566,3597721	0,044050494	566,3597721	657,3622703	159,0454452	0,097387019	FALSE	40,3%	550,7058773	114,6980609	0,070232142	FALSE	33,7%
1213	1	1163,488465	Non-Empty	795,2010891	434,6151182	0	0	TRUE	427,5820885	0	415,9829249	361,0890686	0	0	TRUE	31,0%	280,8420433	0	0	TRUE	24,1%
1213	2	1163,488465	Non-Empty	779,2627785	400,3154964	0	0	TRUE	374,9211555	0	407,6453293	353,8517171	0	0	TRUE	30,4%	414,5763496	0	0	TRUE	35,6%
1213	3	1163,488465	Non-Empty	649,6834213	328,5578505	0	0	TRUE	360,985221	0	339,8602109	448,5476794	0	0	TRUE	38,6%	468,0700722	0	0	TRUE	40,2%
1214	1	1217,979336	Empty	502,2423994	401,5442031	83,90082119	0,068885258	FALSE	418,2534857	0,107455179	418,2534857	324,2220887	161,2229356	0,132369188	FALSE	26,6%	405,9931121	137,2725132	0,112705125	FALSE	33,3%
1214	2	1217,979336	Empty	584,4218543	458,0111274	83,90082119	0,068885258	FALSE	449,0078792	0,107455179	449,0078792	377,2729554	161,2229356	0,132369188	FALSE	31,0%	378,9269047	137,2725132	0,112705125	FALSE	31,1%
1214	3	1217,979336	Empty	483,5375192	358,4240059	83,90082119	0,068885258	FALSE	350,7179715	0,107455179	350,7179715	516,4842923	161,2229356	0,132369188	FALSE	42,4%	433,0593196	137,2725132	0,112705125	FALSE	35,6%
1215	1	1324,492502	Non-Empty	858,9775089	441,3743764	0	0	TRUE	426,3038248	0	449,3162408	419,4299234	0	0	TRUE	31,7%	427,2556459	0	0	TRUE	32,3%
1215	2	1324,492502	Non-Empty	791,8500604	400,4924367	0	0	TRUE	411,6673938	0	414,2030364	386,6522776	0	0	TRUE	29,2%	455,7393556	0	0	TRUE	34,4%
1215	3	1324,492502	Non-Empty	881,2626756	482,6256891	0	0	TRUE	486,5212836	0	460,973225	518,4103012	0	0	TRUE	39,1%	441,4975007	0	0	TRUE	33,3%
1216	1	1469,899225	Empty	705,274445	530,0508809	100,7543937	0,068545103	FALSE	533,9815461	0,058504176	533,9815461	454,5352036	176,1411929	0,119832156	FALSE	30,9%	501,4950298	129,1813667	0,087884506	FALSE	34,1%
1216	2	1469,899225	Empty	654,6133151	479,5186291	100,7543937	0,068545103	FALSE	483,5781724	0,058504176	483,5781724	421,8851237	176,1411929	0,119832156	FALSE	28,7%	518,7879618	129,1813667	0,087884506	FALSE	35,3%
1216	3	1469,899225	Empty	647,474153	460,3297152	100,7543937	0,068545103	FALSE	452,3395067	0,058504176	452,3395067	593,4788979	176,1411929	0,119832156	FALSE	40,4%	449,6162336	129,1813667	0,087884506	FALSE	30,6%
1217	1	1712,616667	Empty	825,0248735	588,0713734	135,329685	0,07901925	FALSE	577,2179204	0,080090218	577,2179204	535,3874602	201,0353176	0,117384889	FALSE	31,3%	600,2986257	149,1685616	0,087099796	FALSE	35,1%
1217	2	1712,616667	Empty	763,5038884	561,1699765	135,329685	0,07901925	FALSE	584,9361117	0,080090218	584,9361117	495,4643439	201,0353176	0,117384889	FALSE	28,9%	547,3310999	149,1685616	0,087099796	FALSE	32,0%
1217	3	1712,616667	Empty	802,3880466	563,3753174	135,329685	0,07901925	FALSE	550,4626353	0,080090218	550,4626353	681,7648632	201,0353176	0,117384889	FALSE	39,8%	564,9869418	149,1685616	0,087099796	FALSE	33,0%
1218	1	1170,310276	Non-Empty	744,9778152	413,142902	0	0	TRUE	441,3086349	0	387,4374352	353,1128451	0	0	TRUE	30,2%	402,6874069	0	0	TRUE	34,4%
1218	2	1170,310276	Non-Empty	729,4559807	363,2187644	0	0	TRUE	356,9821944	0	379,3650608	345,7556338	0	0	TRUE	29,5%	314,5995366	0	0	TRUE	26,9%
1218	3	1170,310276	Non-Empty	775,8784189	393,9486099	0	0	TRUE	372,0194471	0	403,5077803	471,4417974	0	0	TRUE	40,3%	453,0233328	0	0	TRUE	38,7%
1219	1	1487,310861	Empty	564,7301631	416,7998983	117,3290849	0,078886726	FALSE	407,0422832	0,13976684	407,0422832	418,8256482	102,8482774	0,069150492	FALSE	28,2%	454,0212102	128,2377798	0,086221235	FALSE	30,5%
1219	2	1487,310861	Empty	645,2483306	495,989731	117,3290849	0,078886726	FALSE	484,9037811	0,13976684	484,9037811	478,5410237	102,8482774	0,069150492	FALSE	32,2%	469,677114	128,2377798	0,086221235	FALSE	31,6%
1219	3	1487,310861	Empty	691,8503166	574,5212317	117,3290849	0,078886726	FALSE	595,3647966	0,13976684	595,3647966	589,9441891	102,8482774	0,069150492	FALSE	39,7%	563,6125368	128,2377798	0,086221235	FALSE	37,9%
1220	1	905,5133125	Non-Empty	659,4327682	284,5614445	0	0	TRUE	277,6043366	0	297,8104745	290,8104745	0	0	TRUE	32,1%	331,0478777	0	0	TRUE	36,6%
1220	2	905,5133125	Non-Empty	653,5954382	278,7241145	0	0	TRUE	271,7670066	0	294,5564836	288,2362064	0	0	TRUE	31,8%	311,5744731	0	0	TRUE	34,4%
1220	3	905,5133125	Non-Empty	696,2277535	342,2277535	0	0	TRUE	356,1419694	0	313,7696301	326,4666317	0	0	TRUE	36,1%	262,8909617	0	0	TRUE	29,0%
1221	1	1502,003773	Empty	606,3985952	494,5440793	120,2356946	0,080050195	FALSE	492,3866249	0,024178616	492,3866249	436,9484341	171,7552933	0,114350774	FALSE	29,1%	442,6958488	165,611562	0,110260417	FALSE	29,5%
1221	2	1502,003773	Empty	607,8168641	495,9623482	120,2356946	0,080050195	FALSE	493,8048938	0,024178616	493,8048938	437,9703863	171,7552933	0,114350774	FALSE	29,2%	505,9381129	165,611562	0,110260417	FALSE	33,7%
1221	3	1502,003773	Empty	616,8794978	511,4973451	120,2356946	0,080050195	FALSE	515,8122539	0,024178616	515,8122539	627,0849521	171,7552933	0,114350774	FALSE	41,7%	553,369811	165,611562	0,110260417	FALSE	36,8%
1222	1	1620,964336	Empty	760,0338036	561,0239293	86,64879147	0,053455088	FALSE	550,5454305	0,032173374	550,5454305	489,9831932	163,2136771	0,100689246	FALSE	30,2%	480,2857293	151,6352273	0,093546307	FALSE	29,6%
1222	2	1620,964336	Empty	731,6320169	548,3058749	86,64879147	0,053455088	FALSE	553,5111084	0,032173374	553,5111084	471,6729574	163,2136771	0,100689246	FALSE	29,1%	540,3214455	151,6352273	0,093546307	FALSE	33,3%
1222	3	1620,964336	Empty	694,8926424	511,6345322	86,64879147	0,053455088	FALSE	516,9077976	0,032173374	516,9077976	659,3081859	163,2136771	0,100689246	FALSE	40,7%	600,3571617	151,6352273	0,093546307	FALSE	37,0%
1223	1	1006,000285	Non-Empty	664,1459964	363,4655087	0	0	TRUE	342,6119004	0	362,0362872	318,2894252	0	0	TRUE	31,6%	309,5385492	0	0	TRUE	30,8%
1223	2	1006,000285	Non-Empty	566,4192871	307,2956774	0	0	TRUE	327,9989471	0	308,7639417	271,454274	0	0	TRUE	27,0%	386,9231865	0	0	TRUE	38,5%
1223	3	1006,000285	Non-Empty	614,9156395	335,2390987	0	0	TRUE	335,3894373	0	335,2000558	416,2565856	0	0	TRUE	41,4%	309,5385492	0	0	TRUE	30,8%
1224	1	830,5580671	Non-Empty	477,6246348	233,1559221	0	0	TRUE	235,8438705	0	252,346002	233,6674323	0	0	TRUE	28,1%	233,5944564	0	0	TRUE	28,1%
1224	2	830,5580671	Non-Empty	550,2206441	303,818358	0	0	TRUE	304,572733	0	290,7010435	269,183446	0	0	TRUE	32,4%	328,7625682	0	0	TRUE	39,6%
1224	3	830,5580671	Non-Empty	544,1827133	293,5837869	0	0	TRUE	290,1414635	0	287,5110216	327,7071888	0	0	TRUE	39,5%	268,2010425	0	0	TRUE	32,3%
1225	1	1923,851605	Empty	898,0629558	649,7265706	111,2504872	0,057826959	FALSE	652,8656954	0,024737279	652,8656954	576,0861385	181,1190497	0,094143981	FALSE	29,9%	633,4633332	123,741855	0,064319854	FALSE	32,9%
1225	2	1923,851605	Empty	912,0432259	650,5175969	111,2504872	0,057826959	FALSE	640,4674778	0,024737279	640,4674778	585,054151	181,1190497	0,094143981	FALSE	30,4%	656,9249382	123,741855	0,064319854	FALSE	34,1%
1225	3	1923,851605	Empty	868,1719527	623,6074371	111,2504872	0,057826959	FALSE	630,5184315	0,024737279	630,5184315	762,7113151	18								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1241	1	834,6894418	Non-Empty	573,9598957	243,0947441	0	0	TRUE	225,5493835	0	269,956659	250,0282212	0	0	TRUE	30,0%	231,8581783	0	0	TRUE	27,8%
1241	2	834,6894418	Non-Empty	616,7778597	314,1657769	0	0	TRUE	324,8734851	0	290,0956871	268,6805686	0	0	TRUE	32,2%	315,3271224	0	0	TRUE	37,8%
1241	3	834,6894418	Non-Empty	583,9110596	277,4289208	0	0	TRUE	284,2665731	0	274,6370957	315,9806519	0	0	TRUE	37,9%	287,5041411	0	0	TRUE	34,4%
1242	1	969,3468451	Non-Empty	657,72023	336,398553	0	0	TRUE	341,1518311	0	327,3610037	284,8032009	0	0	TRUE	29,4%	336,0402396	0	0	TRUE	34,7%
1242	2	969,3468451	Non-Empty	644,4563802	328,6626701	0	0	TRUE	338,9439151	0	320,7593105	279,0597454	0	0	TRUE	28,8%	336,0402396	0	0	TRUE	34,7%
1242	3	969,3468451	Non-Empty	645,3951003	304,2856221	0	0	TRUE	289,2510989	0	321,2265309	405,4838988	0	0	TRUE	41,8%	297,2663658	0	0	TRUE	30,7%
1243	1	870,8852819	Non-Empty	633,1839081	341,1839081	0	0	TRUE	362,0848653	0	304,7270978	274,3415019	0	0	TRUE	31,5%	272,1516506	0	0	TRUE	31,3%
1243	2	870,8852819	Non-Empty	590,8236145	267,4721786	0	0	TRUE	257,0217	0	284,3407153	255,9879297	0	0	TRUE	29,4%	263,0799289	0	0	TRUE	30,2%
1243	3	870,8852819	Non-Empty	585,580631	262,2291951	0	0	TRUE	251,7787165	0	281,8174687	340,5558503	0	0	TRUE	39,1%	335,6537024	0	0	TRUE	38,5%
1244	1	1004,19653	Non-Empty	704,6538593	354,5185182	0	0	TRUE	386,1010431	0	329,2208893	301,9571975	0	0	TRUE	30,1%	342,0889279	0	0	TRUE	34,1%
1244	2	1004,19653	Non-Empty	728,4160709	332,7876199	0	0	TRUE	318,8770349	0	340,3228173	312,1397442	0	0	TRUE	31,1%	342,0889279	0	0	TRUE	34,1%
1244	3	1004,19653	Non-Empty	716,2801984	316,8903924	0	0	TRUE	299,2184524	0	334,6528239	390,0995887	0	0	TRUE	38,8%	320,0186745	0	0	TRUE	31,9%
1245	1	1905,125617	Empty	803,7548068	617,2128784	167,4105939	0,087873782	FALSE	607,5246473	0,075218874	607,5246473	552,1317193	267,5896	0,14045772	FALSE	29,0%	573,8330172	182,3606976	0,095721088	FALSE	30,1%
1245	2	1905,125617	Empty	825,0545572	666,9423863	167,4105939	0,087873782	FALSE	685,6839127	0,075218874	685,6839127	566,7633802	267,5896	0,14045772	FALSE	29,7%	665,6462999	182,3606976	0,095721088	FALSE	34,9%
1245	3	1905,125617	Empty	806,877345	626,9703524	167,4105939	0,087873782	FALSE	611,917075	0,075218874	611,917075	786,2305176	267,5896	0,14045772	FALSE	41,3%	665,6462999	182,3606976	0,095721088	FALSE	34,9%
1246	1	1312,882792	Non-Empty	749,6232757	446,4894951	0	0	TRUE	453,3376996	0	438,8063513	384,8666938	0	0	TRUE	29,3%	432,8185028	0	0	TRUE	33,0%
1246	2	1312,882792	Non-Empty	775,5530261	443,2332823	0	0	TRUE	420,8955236	0	453,9848276	398,1793771	0	0	TRUE	30,3%	461,6730697	0	0	TRUE	35,2%
1246	3	1312,882792	Non-Empty	717,6524454	423,1600144	0	0	TRUE	438,6495685	0	420,091613	529,8367209	0	0	TRUE	40,4%	418,3912194	0	0	TRUE	31,9%
1247	1	1192,405562	Non-Empty	725,4923664	398,6846624	0	0	TRUE	381,4724791	0	407,8278072	365,9354415	0	0	TRUE	30,7%	429,8206094	0	0	TRUE	36,0%
1247	2	1192,405562	Non-Empty	662,8993199	387,7281656	0	0	TRUE	422,1525321	0	372,6417928	334,3637598	0	0	TRUE	28,0%	415,9554285	0	0	TRUE	34,9%
1247	3	1192,405562	Non-Empty	732,8004377	405,9927337	0	0	TRUE	388,7805504	0	411,9359617	492,1063604	0	0	TRUE	41,3%	346,6295237	0	0	TRUE	29,1%
1248	1	1308,391261	Empty	605,3797417	416,8682954	146,6220956	0,112062882	FALSE	397,0108148	0,142820887	397,0108148	420,1209935	140,0669606	0,10705281	FALSE	32,1%	488,8494821	172,9833518	0,132210721	FALSE	37,4%
1248	2	1308,391261	Empty	590,2743604	419,4460051	146,6220956	0,112062882	FALSE	417,2716154	0,142820887	417,2716154	409,638172	140,0669606	0,10705281	FALSE	31,3%	373,8260745	172,9833518	0,132210721	FALSE	28,6%
1248	3	1308,391261	Empty	618,699056	472,0769604	146,6220956	0,112062882	FALSE	494,1088306	0,142820887	494,1088306	478,6320954	140,0669606	0,10705281	FALSE	36,6%	445,7157043	172,9833518	0,132210721	FALSE	34,1%
1249	1	1645,533124	Empty	765,0398518	572,3721313	111,0405583	0,06747999	FALSE	554,4534933	0,061578191	554,4534933	510,9710981	180,3100569	0,109575465	FALSE	31,1%	477,735423	174,6821342	0,106155344	FALSE	29,0%
1249	2	1645,533124	Empty	695,401923	533,7293347	111,0405583	0,06747999	FALSE	546,805829	0,061578191	546,805829	464,4598361	180,3100569	0,109575465	FALSE	28,2%	619,2866595	174,6821342	0,106155344	FALSE	37,6%
1249	3	1645,533124	Empty	709,3385966	539,4316577	111,0405583	0,06747999	FALSE	544,2738014	0,061578191	544,2738014	670,1021896	180,3100569	0,109575465	FALSE	40,7%	548,5110413	174,6821342	0,106155344	FALSE	33,3%
1250	1	842,5103894	Non-Empty	504,7114718	327,8449232	0	0	TRUE	327,1205732	0	310,1708271	265,6454004	0	0	TRUE	31,5%	357,1511433	0	0	TRUE	42,4%
1250	2	842,5103894	Non-Empty	449,0105659	251,6642054	0	0	TRUE	230,4600436	0	275,9397921	236,3282751	0	0	TRUE	28,1%	283,8893703	0	0	TRUE	33,7%
1250	3	842,5103894	Non-Empty	417,2149477	263,0012607	0	0	TRUE	284,9297725	0	256,3997702	340,5367138	0	0	TRUE	40,4%	201,4698757	0	0	TRUE	23,9%
1251	1	861,967836	Non-Empty	638,685445	273,9038117	0	0	TRUE	274,5845753	0	281,1167043	262,21153	0	0	TRUE	30,4%	272,7746316	0	0	TRUE	31,6%
1251	2	861,967836	Non-Empty	639,2198584	286,7796493	0	0	TRUE	299,8018369	0	281,3519258	262,4309327	0	0	TRUE	30,4%	338,2405432	0	0	TRUE	39,2%
1251	3	861,967836	Non-Empty	680,449723	301,284375	0	0	TRUE	287,5814237	0	299,4992059	337,3253733	0	0	TRUE	39,1%	250,9526611	0	0	TRUE	29,1%
1252	1	1388,336296	Empty	736,9284775	477,4312994	108,3621737	0,078051819	FALSE	471,2735704	0,013794501	471,2735704	451,3582887	127,7441466	0,092012394	FALSE	32,5%	499,1770952	217,0734271	0,156355076	FALSE	36,0%
1252	2	1388,336296	Empty	706,160821	454,5653264	108,3621737	0,078051819	FALSE	456,3092808	0,013794501	456,3092808	432,5135335	127,7441466	0,092012394	FALSE	31,2%	343,184253	217,0734271	0,156355076	FALSE	24,7%
1252	3	1388,336296	Empty	705,2653449	456,3967063	108,3621737	0,078051819	FALSE	460,7534449	0,013794501	460,7534449	504,464474	127,7441466	0,092012394	FALSE	36,3%	545,9749479	217,0734271	0,156355076	FALSE	39,3%
1253	1	574,4533507	Non-Empty	416,5963859	240,4565788	0	0	TRUE	247,0124564	0	213,1907135	190,0120504	0	0	TRUE	33,1%	210,0152035	0	0	TRUE	36,6%
1253	2	574,4533507	Non-Empty	340,1162694	158,5071304	0	0	TRUE	159,5936759	0	174,0524704	155,1290216	0	0	TRUE	27,0%	185,3075325	0	0	TRUE	32,3%
1253	3	574,4533507	Non-Empty	365,8277493	175,4896415	0	0	TRUE	167,8472183	0	187,2101668	229,3122787	0	0	TRUE	39,9%	179,1306147	0	0	TRUE	31,2%
1254	1	818,6390077	Non-Empty	555,3251968	257,4863195	0	0	TRUE	234,7849405	0	276,5186293	262,2483836	0	0	TRUE	32,0%	279,0814799	0	0	TRUE	34,1%
1254	2	818,6390077	Non-Empty	506,3832647	259,9822469	0	0	TRUE	288,7187277	0	252,1484835	239,1359034	0	0	TRUE	29,2%	195,3570359	0	0	TRUE	23,9%
1254	3	818,6390077	Non-Empty	582,3430416	301,1704413	0	0	TRUE	295,1353395	0	289,9718949	317,2547206	0	0	TRUE	38,8%	344,2004919	0	0	TRUE	42,0%
1255	1	1840,848897	Empty	818,2939043	647,95579	137,2134773	0,074538153	FALSE	663,6915628	0,066929793	663,6915628	545,4753042	239,6939632	0,130208386	FALSE	29,6%	657,4460347	152,5263948	0,082856553	FALSE	35,7%
1255	2	1840,848897	Empty	802,801815	607,4824382	137,2134773	0,074538153	FALSE	598,2369485	0,066929793	598,2369485	535,1482663	239,6939632	0,130208386	FALSE	29,1%	635,5311669	152,5263948	0,082856553	FALSE	34,5%
1255	3	1840,848897	Empty	777,9748392	585,410669	137,2134773	0,074538153	FALSE	578,9203859	0,066929793	578,9203859	760,2253267	239,6939632	0,130208386	FALSE	41,3%	547,8716956	152,5263948	0,082856553	FALSE	29,8%
1256	1	851,2587342	Non-Empty	407,622881	230,8847092	0	0	TRUE	274,687286	0	229,3587813	204,5104573	0	0	TRUE	24,0%	277,5843698	0	0	TRUE	32,6%
1256	2	851,2587342	Non-Empty	574,3029032	331,0626153	0	0	TRUE	308,3630759	0	323,1452896	288,1363016	0	0	TRUE	33,8%	296,0899945	0	0	TRUE	34,8%
1256	3	851,2587342	Non-Empty	530,9551956	289,3114097	0	0	TRUE	268,2083723	0	298,7546633	358,6119752	0	0	TRUE	42,1%	277,5843698	0	0	TRUE	32,6%
1257	1	1370,337404	Non-Empty	750,6857429	442,6918487	0	0	TRUE	439,6273209	0	450,1690392	396,954811	0	0	TRUE	29,0%	515,5724888	0	0	TRUE	37,6%
1257	2	1370,337404	Non-Empty	758,7950549	466,4777345	0	0	TRUE	479,0897806	0	455,0320078	401,2429309	0	0	TRUE	29,3%	379,895518	0	0	TRUE	27,7%
1257	3	1370,337404	Non-Empty	775,6447058	461,1678211	0	0	TRUE	451,6203028	0	465,1363574	572,1396625	0	0	TRUE	41,8%	474,8693975	0	0	TRUE	34,7%
1258	1	660,6022075	Non-Empty	404,3203661	224,2221958	0	0														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1272	1	1569,823783	Empty	704,5224136	512,3972396	91,69895697	0,058413535	FALSE	511,5911375	0,144240834	511,5911375	453,8889431	180,6830932	0,115097691	FALSE	28,9%	599,7079622	162,1439923	0,103288021	FALSE	38,2%
1272	2	1569,823783	Empty	710,4372428	546,6837112	91,69895697	0,058413535	FALSE	574,2492516	0,144240834	574,2492516	457,699575	180,6830932	0,115097691	FALSE	29,2%	476,2386759	162,1439923	0,103288021	FALSE	30,3%
1272	3	1569,823783	Empty	728,8213428	510,7428326	91,69895697	0,058413535	FALSE	483,9833944	0,144240834	483,9833944	658,2352654	180,6830932	0,115097691	FALSE	41,9%	493,8771454	162,1439923	0,103288021	FALSE	31,5%
1273	1	1870,867038	Empty	862,0386808	676,5045868	162,1203218	0,086655181	FALSE	690,6751519	0,078404266	690,6751519	575,4055644	263,2193442	0,140693774	FALSE	30,8%	561,2601113	277,3647973	0,148254682	FALSE	30,0%
1273	2	1870,867038	Empty	801,0756375	599,1769613	162,1203218	0,086655181	FALSE	596,982944	0,078404266	596,982944	534,7131047	263,2193442	0,140693774	FALSE	28,6%	602,8349344	277,3647973	0,148254682	FALSE	32,2%
1273	3	1870,867038	Empty	806,8666965	595,1854896	162,1203218	0,086655181	FALSE	583,2089418	0,078404266	583,2089418	760,7483686	263,2193442	0,140693774	FALSE	40,7%	706,771992	277,3647973	0,148254682	FALSE	37,8%
1274	1	893,5461688	Non-Empty	604,6057661	315,6496647	0	0	TRUE	295,9920381	0	317,5208412	288,1878295	0	0	TRUE	32,3%	304,6180121	0	0	TRUE	34,1%
1274	2	893,5461688	Non-Empty	518,5598102	275,6366477	0	0	TRUE	302,01196	0	272,3320821	247,1736701	0	0	TRUE	27,7%	294,4640783	0	0	TRUE	33,0%
1274	3	893,5461688	Non-Empty	578,2760171	302,2598564	0	0	TRUE	295,5421706	0	303,6932455	358,1846691	0	0	TRUE	40,1%	294,4640783	0	0	TRUE	33,0%
1275	1	1350,478333	Empty	551,7392663	435,1275974	64,91906864	0,048071166	FALSE	422,1489054	0,131106881	422,1489054	379,5904287	94,87799497	0,070255103	FALSE	28,1%	445,912657	72,05968151	0,053358636	FALSE	33,0%
1275	2	1350,478333	Empty	577,9361926	463,0525566	64,91906864	0,048071166	FALSE	451,8018976	0,131106881	451,8018976	397,6136203	94,87799497	0,070255103	FALSE	29,4%	420,4319337	72,05968151	0,053358636	FALSE	31,1%
1275	3	1350,478333	Empty	531,7018046	452,2981786	64,91906864	0,048071166	FALSE	476,5275296	0,131106881	476,5275296	573,2742836	94,87799497	0,070255103	FALSE	42,4%	484,1337419	72,05968151	0,053358636	FALSE	35,8%
1276	1	1282,919726	Non-Empty	859,9991426	414,6476434	0	0	TRUE	433,7734577	0	412,2439805	381,6101591	0	0	TRUE	29,7%	526,3260414	0	0	TRUE	41,0%
1276	2	1282,919726	Non-Empty	883,4348666	419,4636069	0	0	TRUE	419,9696607	0	423,4779873	392,0093676	0	0	TRUE	30,6%	411,1922198	0	0	TRUE	32,1%
1276	3	1282,919726	Non-Empty	932,9176572	448,8084756	0	0	TRUE	429,1766075	0	447,1977581	509,3001992	0	0	TRUE	39,7%	345,4014647	0	0	TRUE	26,9%
1277	1	1652,17834	Empty	721,0792663	545,9385972	89,23779698	0,054012206	FALSE	544,9991125	0,154869067	544,9991125	503,0459644	106,5265566	0,064476427	FALSE	30,4%	390,837887	218,734634	0,132391661	FALSE	23,7%
1277	2	1652,17834	Empty	694,2108728	496,2847845	89,23779698	0,054012206	FALSE	472,5598807	0,154869067	472,5598807	484,301788	106,5265566	0,064476427	FALSE	29,3%	604,022189	218,734634	0,132391661	FALSE	36,6%
1277	3	1652,17834	Empty	759,4917545	609,9549586	89,23779698	0,054012206	FALSE	634,6193471	0,154869067	634,6193471	664,8305879	106,5265566	0,064476427	FALSE	40,2%	657,3182645	218,734634	0,132391661	FALSE	39,8%
1278	1	992,9459212	Non-Empty	664,3589079	361,0410784	0	0	TRUE	364,7589533	0	344,646912	310,5621692	0	0	TRUE	31,3%	350,4515016	0	0	TRUE	35,3%
1278	2	992,9459212	Non-Empty	668,4621324	316,8557022	0	0	TRUE	272,2849763	0	346,775526	312,4802685	0	0	TRUE	31,5%	303,7246347	0	0	TRUE	30,6%
1278	3	992,9459212	Non-Empty	581,2319941	315,0491406	0	0	TRUE	355,9019915	0	301,5234831	369,9034835	0	0	TRUE	37,3%	338,7697849	0	0	TRUE	34,1%
1279	1	1068,239016	Non-Empty	739,7674894	335,7136856	0	0	TRUE	310,1423313	0	358,602979	331,4309378	0	0	TRUE	31,0%	298,1132139	0	0	TRUE	27,9%
1279	2	1068,239016	Non-Empty	760,2452578	373,7748146	0	0	TRUE	365,786821	0	368,5295963	340,6053961	0	0	TRUE	31,9%	372,6415174	0	0	TRUE	34,9%
1279	3	1068,239016	Non-Empty	703,6736177	358,7505162	0	0	TRUE	392,3098642	0	341,1064411	396,2026826	0	0	TRUE	37,1%	397,4842852	0	0	TRUE	37,2%
1280	1	647,6538287	Non-Empty	430,1423987	189,7562762	0	0	TRUE	191,2963302	0	202,8373438	183,8061896	0	0	TRUE	28,4%	229,5481925	0	0	TRUE	35,4%
1280	2	647,6538287	Non-Empty	489,2694495	253,3788523	0	0	TRUE	259,4144316	0	230,7192126	209,0720503	0	0	TRUE	32,3%	245,9444919	0	0	TRUE	38,0%
1280	3	647,6538287	Non-Empty	454,0205099	204,5187002	0	0	TRUE	196,9430669	0	214,0972723	254,7755888	0	0	TRUE	39,3%	172,1611443	0	0	TRUE	26,6%
1281	1	1035,889573	Non-Empty	607,9602759	299,819438	0	0	TRUE	325,5475344	0	305,429756	270,3530285	0	0	TRUE	26,1%	381,6435268	0	0	TRUE	36,8%
1281	2	1035,889573	Non-Empty	720,8621463	377,6161839	0	0	TRUE	380,4640444	0	362,149894	320,5592078	0	0	TRUE	30,9%	354,3832748	0	0	TRUE	34,2%
1281	3	1035,889573	Non-Empty	733,1237306	358,4539507	0	0	TRUE	329,8779938	0	368,3099226	444,9773363	0	0	TRUE	43,0%	299,862771	0	0	TRUE	28,9%
1282	1	1074,338602	Non-Empty	564,0015568	384,6053191	0	0	TRUE	378,3621288	0	380,1791327	310,7489279	0	0	TRUE	28,9%	322,3015807	0	0	TRUE	30,0%
1282	2	1074,338602	Non-Empty	531,4473325	370,7806658	0	0	TRUE	383,2670464	0	358,2351565	292,8124698	0	0	TRUE	27,3%	365,2751247	0	0	TRUE	34,0%
1282	3	1074,338602	Non-Empty	498,3488549	318,9526173	0	0	TRUE	312,7094269	0	335,9243129	470,7772045	0	0	TRUE	43,8%	386,7618968	0	0	TRUE	36,0%
1283	1	1782,464558	Empty	842,6999977	590,1106872	199,2861018	0,111803683	FALSE	582,8156736	0,025754352	582,8156736	569,5520875	226,0913248	0,126841975	FALSE	32,0%	661,5332379	254,0919179	0,142550895	FALSE	37,1%
1283	2	1782,464558	Empty	817,5106061	579,3326628	199,2861018	0,111803683	FALSE	586,4490163	0,025754352	586,4490163	552,5274398	226,0913248	0,126841975	FALSE	31,0%	569,6536215	254,0919179	0,142550895	FALSE	32,0%
1283	3	1782,464558	Empty	858,1368444	613,0212077	199,2861018	0,111803683	FALSE	613,1998678	0,025754352	613,1998678	660,3850304	226,0913248	0,126841975	FALSE	37,0%	551,2776983	254,0919179	0,142550895	FALSE	30,9%
1284	1	630,0435803	Non-Empty	314,7131918	137,1305641	0	0	TRUE	159,2999147	0	161,2975712	158,0901033	0	0	TRUE	25,1%	173,5834354	0	0	TRUE	27,6%
1284	2	630,0435803	Non-Empty	449,9071088	239,0704551	0	0	TRUE	227,9857798	0	230,5874867	226,0021605	0	0	TRUE	35,9%	218,5865483	0	0	TRUE	34,7%
1284	3	630,0435803	Non-Empty	464,6792148	253,8425611	0	0	TRUE	242,7578858	0	238,1585224	245,9513166	0	0	TRUE	39,0%	237,8735967	0	0	TRUE	37,8%
1285	1	1680,375308	Empty	750,3115951	580,8030943	111,2906868	0,066229661	FALSE	571,501356	0,035650441	571,501356	503,2716764	194,4104006	0,115694631	FALSE	29,9%	542,6211932	132,6363886	0,078932598	FALSE	32,3%
1285	2	1680,375308	Empty	716,1493742	563,4770726	111,2906868	0,066229661	FALSE	571,0115335	0,035650441	571,0115335	480,3573588	194,4104006	0,115694631	FALSE	28,6%	577,6290122	132,6363886	0,078932598	FALSE	34,4%
1285	3	1680,375308	Empty	694,5346263	536,0951412	111,2906868	0,066229661	FALSE	537,8624186	0,035650441	537,8624186	696,7462729	194,4104006	0,115694631	FALSE	41,5%	560,1251027	132,6363886	0,078932598	FALSE	33,3%
1286	1	1001,886006	Non-Empty	534,1156469	316,2981649	0	0	TRUE	316,7696175	0	322,9950714	282,6400003	0	0	TRUE	28,2%	358,6999279	0	0	TRUE	35,8%
1286	2	1001,886006	Non-Empty	570,9868513	356,803037	0	0	TRUE	360,9081572	0	345,2921477	302,1512752	0	0	TRUE	30,2%	383,437854	0	0	TRUE	38,3%
1286	3	1001,886006	Non-Empty	551,650311	328,7848037	0	0	TRUE	324,2082309	0	333,5987864	417,0947301	0	0	TRUE	41,6%	259,7482237	0	0	TRUE	25,9%
1287	1	1646,434265	Empty	754,220533	604,6166628	139,0561499	0,084458975	FALSE	609,1591952	0,060954457	609,1591952	520,8195621	219,0854275	0,133066611	FALSE	31,6%	459,1018623	280,8031273	0,170552286	FALSE	27,9%
1287	2	1646,434265	Empty	644,5809474	498,7449004	139,0561499	0,084458975	FALSE	507,055256	0,060954457	507,055256	445,1090259	219,0854275	0,133066611	FALSE	27,0%	585,7506519	280,8031273	0,170552286	FALSE	35,6%
1287	3	1646,434265	Empty	710,071992	543,0727015	139,0561499	0,084458975	FALSE	530,2198136	0,060954457	530,2198136	680,5056768	219,0854275	0,133066611	FALSE	41,3%	601,5817506	280,8031273	0,170552286	FALSE	36,5%
1288	1	874,6891285	Non-Empty	620,5876253	254,8944096	0	0	TRUE	252,1230575	0	276,4623212	276,6669583	0	0	TRUE	31,6%	288,5572383	0	0	TRUE	33,0%
1288	2	874,6891285	Non-Empty	649,1638014	285,3685069	0	0														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1303	1	1752,794863	Empty	740,8307384	541,235962	129,7825681	0,074043216	FALSE	554,8870417	0,081260694	554,8870417	478,0632594	219,243081	0,125081997	FALSE	27,3%	577,1397721	135,672437	0,077403488	FALSE	32,9%
1303	2	1752,794863	Empty	871,2785572	661,6932216	129,7825681	0,074043216	FALSE	665,3537422	0,081260694	665,3537422	562,2421496	219,243081	0,125081997	FALSE	32,1%	662,6419605	135,672437	0,077403488	FALSE	37,8%
1303	3	1752,794863	Empty	780,4231362	549,8656797	129,7825681	0,074043216	FALSE	532,5540793	0,081260694	532,5540793	712,4894543	219,243081	0,125081997	FALSE	40,6%	513,0131307	135,672437	0,077403488	FALSE	29,3%
1304	1	886,6316949	Non-Empty	535,6595221	277,3916463	0	0	TRUE	270,9512199	0	289,2202962	259,5977409	0	0	TRUE	29,3%	231,2952247	0	0	TRUE	26,1%
1304	2	886,6316949	Non-Empty	572,069811	326,366029	0	0	TRUE	332,4896963	0	308,8794157	277,2433318	0	0	TRUE	31,3%	337,3055361	0	0	TRUE	38,0%
1304	3	886,6316949	Non-Empty	534,3847098	282,8740195	0	0	TRUE	283,1907786	0	288,5319829	349,7906222	0	0	TRUE	39,5%	318,030934	0	0	TRUE	35,9%
1305	1	1062,047866	Non-Empty	662,9938148	351,0225504	0	0	TRUE	341,0283237	0	357,7940485	334,6926084	0	0	TRUE	31,5%	392,9577105	0	0	TRUE	37,0%
1305	2	1062,047866	Non-Empty	639,8789973	335,1444167	0	0	TRUE	332,3868737	0	345,3198083	323,0237838	0	0	TRUE	30,4%	318,6143599	0	0	TRUE	30,0%
1305	3	1062,047866	Non-Empty	665,106167	375,8808991	0	0	TRUE	388,6326688	0	358,9340094	404,3314741	0	0	TRUE	38,1%	350,4757958	0	0	TRUE	33,0%
1306	1	1033,10915	Empty	441,1612572	324,1226454	81,2255424	0,078622421	FALSE	312,8124467	0,143065837	312,8124467	309,0315317	123,4015704	0,119446789	FALSE	29,9%	358,8694943	114,0482522	0,110393226	FALSE	34,7%
1306	2	1033,10915	Empty	421,3331228	337,3180383	81,2255424	0,078622421	FALSE	359,0313668	0,143065837	359,0313668	295,1420103	123,4015704	0,119446789	FALSE	28,6%	304,4953285	114,0482522	0,110393226	FALSE	29,5%
1306	3	1033,10915	Empty	487,8000094	371,6684665	81,2255424	0,078622421	FALSE	361,2653367	0,143065837	361,2653367	428,9356081	123,4015704	0,119446789	FALSE	41,5%	369,7443274	114,0482522	0,110393226	FALSE	35,8%
1307	1	1706,241478	Empty	803,1149289	620,0947597	73,97154779	0,043353505	FALSE	630,1861381	0,111778155	630,1861381	517,2253332	169,1957022	0,099162812	FALSE	30,3%	609,3719564	77,04907908	0,045157195	FALSE	35,7%
1307	2	1706,241478	Empty	760,522882	539,5833057	73,97154779	0,043353505	FALSE	511,755277	0,111778155	511,755277	489,7950304	169,1957022	0,099162812	FALSE	28,7%	528,1223622	77,04907908	0,045157195	FALSE	31,0%
1307	3	1706,241478	Empty	721,9383095	546,5634123	73,97154779	0,043353505	FALSE	564,3000628	0,111778155	564,3000628	699,2211142	169,1957022	0,099162812	FALSE	41,0%	568,7471593	77,04907908	0,045157195	FALSE	33,3%
1308	1	1131,915672	Non-Empty	636,5220468	349,9257289	0	0	TRUE	350,0623974	0	361,6705931	342,5293993	0	0	TRUE	30,0%	385,8803426	0,008035703	FALSE	34,1%	
1308	2	1131,915672	Non-Empty	627,0747205	352,0567181	0	0	TRUE	363,771702	0	356,3026406	337,4455424	0	0	TRUE	29,8%	463,0564111	9,095738591	0,008035703	FALSE	40,9%
1308	3	1131,915672	Non-Empty	728,5178635	429,9332246	0	0	TRUE	418,0815722	0	413,9424379	451,9407299	0	0	TRUE	39,9%	282,9789179	9,095738591	0,008035703	FALSE	25,0%
1309	1	666,0151668	Non-Empty	455,3341161	232,297939	0	0	TRUE	231,2367676	0	227,6824672	205,1373838	0	0	TRUE	30,8%	216,004919	0	0	TRUE	32,4%
1309	2	666,0151668	Non-Empty	431,2736299	202,7646105	0	0	TRUE	196,2305969	0	215,6514099	194,29764	0	0	TRUE	29,2%	234,0053289	0	0	TRUE	35,1%
1309	3	666,0151668	Non-Empty	445,332438	230,9526173	0	0	TRUE	238,5478023	0	222,6812897	266,580143	0	0	TRUE	40,0%	216,004919	0	0	TRUE	32,4%
1310	1	1300,767939	Empty	594,0523494	392,2828284	106,1243791	0,081585943	FALSE	398,3607868	0,05534049	398,3607868	388,8681518	109,5390557	0,084211067	FALSE	29,9%	474,1116787	157,6129197	0,12116913	FALSE	36,4%
1310	2	1300,767939	Empty	663,2319368	443,4484903	106,1243791	0,081585943	FALSE	431,5125231	0,05534049	431,5125231	434,1532825	109,5390557	0,084211067	FALSE	33,4%	413,3281301	157,6129197	0,12116913	FALSE	31,8%
1310	3	1300,767939	Empty	667,0260905	465,0366202	106,1243791	0,081585943	FALSE	470,8946291	0,05534049	477,7465046	477,7465046	109,5390557	0,084211067	FALSE	36,7%	413,3281301	157,6129197	0,12116913	FALSE	31,8%
1311	1	754,2165995	Non-Empty	524,8263813	285,0819646	0	0	TRUE	275,4248539	0	274,0316065	230,9760209	0	0	TRUE	30,6%	216,8372724	0	0	TRUE	28,8%
1311	2	754,2165995	Non-Empty	517,3886047	283,2703663	0	0	TRUE	279,239434	0	270,1480634	227,7026564	0	0	TRUE	30,2%	311,1143473	0	0	TRUE	41,3%
1311	3	754,2165995	Non-Empty	402,2635315	185,8642685	0	0	TRUE	199,5523116	0	210,0369297	295,5379221	0	0	TRUE	39,2%	226,2649798	0	0	TRUE	30,0%
1312	1	951,180491	Non-Empty	667,8023833	264,9703253	0	0	TRUE	277,5815364	0	289,0546631	271,6413498	0	0	TRUE	28,6%	308,8248347	0	0	TRUE	32,5%
1312	2	951,180491	Non-Empty	781,8015693	359,8459857	0	0	TRUE	353,3336711	0	338,3985965	318,0126919	0	0	TRUE	33,4%	284,1188479	0	0	TRUE	29,9%
1312	3	951,180491	Non-Empty	747,9063454	326,3641799	0	0	TRUE	320,2652834	0	323,7272314	361,5264492	0	0	TRUE	38,0%	358,2368083	0	0	TRUE	37,7%
1313	1	1243,807554	Empty	567,2992171	392,4684933	131,7212646	0,105901644	FALSE	390,7894029	0,060784991	390,7894029	388,1166113	126,3697608	0,101599126	FALSE	31,2%	291,1038957	223,3824764	0,17959569	FALSE	23,4%
1313	2	1243,807554	Empty	584,7445881	405,2477495	131,7212646	0,105901644	FALSE	398,9025444	0,060784991	398,9025444	400,0518265	126,3697608	0,101599126	FALSE	32,2%	516,0478151	223,3824764	0,17959569	FALSE	41,5%
1313	3	1243,807554	Empty	611,2186495	446,0913115	131,7212646	0,105901644	FALSE	454,1156069	0,060784991	454,1156069	455,6391165	126,3697608	0,101599126	FALSE	36,6%	436,6558435	223,3824764	0,17959569	FALSE	35,1%
1314	1	1065,179267	Non-Empty	720,314689	362,8217902	0	0	TRUE	352,2679218	0	364,3236463	337,059836	0	0	TRUE	31,6%	317,017639	0	0	TRUE	29,8%
1314	2	1065,179267	Non-Empty	692,5343298	344,0790932	0	0	TRUE	342,562887	0	350,2727851	324,0604574	0	0	TRUE	30,4%	355,0597557	0	0	TRUE	33,3%
1314	3	1065,179267	Non-Empty	693,1473395	358,2783836	0	0	TRUE	370,3484582	0	350,5828355	404,0589736	0	0	TRUE	37,9%	393,1018723	0	0	TRUE	36,9%
1315	1	1289,626982	Empty	595,3147451	467,4285752	125,2183792	0,097096588	FALSE	475,9058089	0,071655997	475,9058089	419,8779409	172,7690136	0,133968206	FALSE	32,6%	540,8113151	243,3830063	0,188723569	FALSE	41,9%
1315	2	1289,626982	Empty	505,8506653	368,813284	125,2183792	0,097096588	FALSE	368,1393062	0,071655997	368,1393062	356,778557	172,7690136	0,133968206	FALSE	27,7%	429,8756607	243,3830063	0,188723569	FALSE	33,3%
1315	3	1289,626982	Empty	597,5517825	453,385123	125,2183792	0,097096588	FALSE	445,5818671	0,071655997	445,5818671	512,9704844	172,7690136	0,133968206	FALSE	39,8%	318,9400064	243,3830063	0,188723569	FALSE	24,7%
1316	1	1672,233801	Empty	764,9191024	591,6814697	174,2010705	0,104172676	FALSE	581,3877763	0,034554795	581,3877763	535,8335815	224,5842407	0,134301938	FALSE	32,0%	465,4671405	277,4520459	0,165917018	FALSE	27,8%
1316	2	1672,233801	Empty	669,9974543	519,7231755	174,2010705	0,104172676	FALSE	532,3928359	0,034554795	532,3928359	469,3400053	224,5842407	0,134301938	FALSE	28,1%	672,3414252	277,4520459	0,165917018	FALSE	40,2%
1316	3	1672,233801	Empty	726,149062	560,8291559	174,2010705	0,104172676	FALSE	558,453189	0,034554795	558,453189	667,0602144	224,5842407	0,134301938	FALSE	39,9%	534,4252354	277,4520459	0,165917018	FALSE	32,0%
1317	1	859,0417377	Non-Empty	539,1405796	243,1108977	0	0	TRUE	246,0631281	0	263,7514601	250,0511277	0	0	TRUE	29,1%	257,7125213	0	0	TRUE	30,0%
1317	2	859,0417377	Non-Empty	601,2098385	303,4440837	0	0	TRUE	304,6602412	0	294,1161892	278,8385882	0	0	TRUE	32,5%	274,8933561	0	0	TRUE	32,0%
1317	3	859,0417377	Non-Empty	615,6370565	312,4867563	0	0	TRUE	308,3183684	0	301,1740883	330,1520218	0	0	TRUE	38,4%	326,4358603	0	0	TRUE	38,0%
1318	1	1841,620752	Empty	814,7535935	600,6350542	167,9708816	0,091208182	FALSE	605,9780421	0,054673002	605,9780421	553,9100284	210,4900816	0,114296107	FALSE	30,1%	654,7984897	204,5906652	0,111092724	FALSE	35,6%
1318	2	1841,620752	Empty	847,8999535	613,5466246	167,9708816	0,091208182	FALSE	598,654823	0,054673002	598,654823	576,444573	210,4900816	0,114296107	FALSE	31,3%	552,4862257	204,5906652	0,111092724	FALSE	30,0%
1318	3	1841,620752	Empty	837,3517871	627,4390735	167,9708816	0,091208182	FALSE	636,9878872	0,054673002	636,9878872	711,2661509	210,4900816	0,114296107	FALSE	38,6%	634,3360369	204,5906652	0,111092724	FALSE	34,4%
1319	1	666,8953966	Non-Empty	449,3547271	241,8305681	0															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1334	1	1563,246247	Empty	713,36675	532,1179432	136,7395677	0,087471547	FALSE	516,227228	0,090825529	516,227228	469,3855747	227,8227442	0,145736953	FALSE	30,0%	365,8661428	269,0899466	0,172135354	FALSE	23,4%
1334	2	1563,246247	Empty	697,1375345	549,7901492	136,7395677	0,087471547	FALSE	567,8008554	0,090825529	567,8008554	458,7069727	227,8227442	0,145736953	FALSE	29,3%	615,3203311	269,0899466	0,172135354	FALSE	39,4%
1334	3	1563,246247	Empty	648,8162369	481,3381543	136,7395677	0,087471547	FALSE	479,2181632	0,090825529	479,2181632	635,1536992	227,8227442	0,145736953	FALSE	40,6%	582,0597727	269,0899466	0,172135354	FALSE	37,2%
1335	1	1718,208838	Empty	838,8166978	623,9667009	141,3244172	0,082251013	FALSE	622,4731924	0,033559856	622,4731924	521,9086853	235,8385474	0,137258372	FALSE	30,4%	490,9168109	266,8304217	0,155295687	FALSE	28,6%
1335	2	1718,208838	Empty	828,9881372	611,0747805	141,3244172	0,082251013	FALSE	606,5179121	0,033559856	606,5179121	515,7933908	235,8385474	0,137258372	FALSE	30,0%	593,1911465	266,8304217	0,155295687	FALSE	34,5%
1335	3	1718,208838	Empty	690,4734683	483,1673568	141,3244172	0,082251013	FALSE	489,2177337	0,033559856	489,2177337	680,5067621	235,8385474	0,137258372	FALSE	39,6%	634,1008808	266,8304217	0,155295687	FALSE	36,9%
1336	1	1426,639495	Empty	554,0031133	432,8703894	148,3407297	0,103979127	FALSE	433,3591188	0,020971856	433,3591188	421,3634388	167,9989186	0,117758494	FALSE	29,5%	458,5626949	185,4257325	0,129973783	FALSE	32,1%
1336	2	1426,639495	Empty	573,0402905	455,5009153	148,3407297	0,103979127	FALSE	459,5829935	0,020971856	459,5829935	435,8427265	167,9989186	0,117758494	FALSE	30,6%	475,5464984	185,4257325	0,129973783	FALSE	33,3%
1336	3	1426,639495	Empty	664,4604513	538,2681904	148,3407297	0,103979127	FALSE	533,6973828	0,020971856	533,6973828	569,4333298	167,9989186	0,117758494	FALSE	39,9%	492,5303019	185,4257325	0,129973783	FALSE	34,5%
1337	1	1580,728966	Empty	764,1468973	555,9035609	185,902631	0,117605633	FALSE	563,3537335	0,079759776	563,3537335	510,2754769	228,7034601	0,144682273	FALSE	32,3%	437,2229055	301,7560315	0,190896756	FALSE	27,7%
1337	2	1580,728966	Empty	733,2219684	499,8008593	185,902631	0,117605633	FALSE	482,0732591	0,079759776	482,0732591	489,6246925	228,7034601	0,144682273	FALSE	31,0%	487,6717022	301,7560315	0,190896756	FALSE	30,9%
1337	3	1580,728966	Empty	730,4406271	525,0245457	185,902631	0,117605633	FALSE	535,3019733	0,079759776	535,3019733	580,8287966	228,7034601	0,144682273	FALSE	36,7%	655,8343582	301,7560315	0,190896756	FALSE	41,5%
1338	1	840,0670911	Non-Empty	560,7074305	233,458248	0	0	TRUE	243,1435616	0	254,4920565	233,1810953	0	0	TRUE	27,8%	247,712091	0	0	TRUE	29,5%
1338	2	840,0670911	Non-Empty	671,1601854	338,1170623	0	0	TRUE	342,0084352	0	304,623992	279,1150226	0	0	TRUE	33,2%	333,8728183	0	0	TRUE	39,7%
1338	3	840,0670911	Non-Empty	619,0029636	268,4917809	0	0	TRUE	254,9150944	0	280,9510426	327,7709732	0	0	TRUE	39,0%	258,4821819	0	0	TRUE	30,8%
1339	1	1151,615702	Non-Empty	715,7512643	350,8175978	0	0	TRUE	348,7673399	0	367,9341745	339,3442836	0	0	TRUE	29,5%	310,0503814	0	0	TRUE	26,9%
1339	2	1151,615702	Non-Empty	757,7533475	398,9704547	0	0	TRUE	403,0709706	0	389,5254766	359,2578591	0	0	TRUE	31,2%	457,6934202	0	0	TRUE	39,7%
1339	3	1151,615702	Non-Empty	766,7613163	401,8276498	0	0	TRUE	399,7773919	0	394,1560512	453,0135596	0	0	TRUE	39,3%	383,8719008	0	0	TRUE	33,3%
1340	1	1212,563054	Non-Empty	695,0205963	363,7806394	0	0	TRUE	357,5081252	0	385,2661183	352,4104462	0	0	TRUE	29,1%	408,7291192	0	0	TRUE	33,7%
1340	2	1212,563054	Non-Empty	758,9085553	420,4767267	0	0	TRUE	407,0123408	0	420,6807032	384,804859	0	0	TRUE	31,7%	422,3534232	0	0	TRUE	34,8%
1340	3	1212,563054	Non-Empty	733,5362304	428,3056875	0	0	TRUE	448,0425875	0	406,6162321	475,3477484	0	0	TRUE	39,2%	381,4805112	0	0	TRUE	31,5%
1341	1	928,2212481	Non-Empty	672,1469781	295,9692762	0	0	TRUE	284,1322645	0	308,6719452	283,7043746	0	0	TRUE	30,6%	338,5277493	0	0	TRUE	36,5%
1341	2	928,2212481	Non-Empty	718,4260708	342,2483689	0	0	TRUE	330,4113572	0	329,924823	303,2381693	0	0	TRUE	32,7%	283,9264994	0	0	TRUE	30,6%
1341	3	928,2212481	Non-Empty	630,6702696	290,003603	0	0	TRUE	313,6776264	0	289,6244799	341,2787042	0	0	TRUE	36,8%	305,7669994	0	0	TRUE	32,9%
1342	1	1669,607299	Empty	768,1054612	549,9899092	153,631173	0,092016352	FALSE	537,0995644	0,117435065	537,0995644	498,1578408	156,3095382	0,093620541	FALSE	29,8%	488,665551	175,6138304	0,105182716	FALSE	29,3%
1342	2	1669,607299	Empty	819,2438657	590,645645	153,631173	0,092016352	FALSE	567,2726314	0,117435065	567,2726314	531,3238557	156,3095382	0,093620541	FALSE	31,8%	509,0266157	175,6138304	0,105182716	FALSE	30,5%
1342	3	1669,607299	Empty	697,9335942	528,9717452	153,631173	0,092016352	FALSE	565,2351035	0,117435065	565,2351035	640,1256028	156,3095382	0,093620541	FALSE	38,3%	671,9151327	175,6138304	0,105182716	FALSE	40,2%
1343	1	817,2285354	Non-Empty	625,6436011	289,2737413	0	0	TRUE	276,0649894	0	286,1646668	260,2898161	0	0	TRUE	31,9%	272,4095118	0	0	TRUE	33,3%
1343	2	817,2285354	Non-Empty	603,9456292	284,4107229	0	0	TRUE	288,0369245	0	276,240178	251,2626941	0	0	TRUE	30,7%	272,4095118	0	0	TRUE	33,3%
1343	3	817,2285354	Non-Empty	557,1226287	234,5440711	0	0	TRUE	253,1266214	0	254,8236906	305,6760252	0	0	TRUE	37,4%	272,4095118	0	0	TRUE	33,3%
1344	1	1199,05193	Non-Empty	744,4938607	398,3099138	0	0	TRUE	413,2237317	0	391,1276816	356,3858359	0	0	TRUE	29,7%	351,237434	0	0	TRUE	29,3%
1344	2	1199,05193	Non-Empty	763,0709403	401,5325484	0	0	TRUE	401,0905612	0	400,8873458	365,2785997	0	0	TRUE	30,5%	399,6839766	0	0	TRUE	33,3%
1344	3	1199,05193	Non-Empty	774,7763432	399,2094676	0	0	TRUE	384,7389968	0	407,0369023	477,3874941	0	0	TRUE	39,8%	448,1305192	0	0	TRUE	37,4%
1345	1	789,3912115	Non-Empty	494,1044814	234,2530611	0	0	TRUE	222,4963073	0	254,3183409	217,8720811	0	0	TRUE	27,6%	283,8260536	0	0	TRUE	36,0%
1345	2	789,3912115	Non-Empty	569,4477633	344,8666044	0	0	TRUE	368,380112	0	293,0979497	251,0941996	0	0	TRUE	31,8%	257,2173611	0	0	TRUE	32,6%
1345	3	789,3912115	Non-Empty	470,1229662	210,2715459	0	0	TRUE	198,5147922	0	241,9749209	320,4249308	0	0	TRUE	40,6%	248,3477969	0	0	TRUE	31,5%
1346	1	1014,447904	Non-Empty	630,5600898	341,1770894	0	0	TRUE	345,0244704	0	337,7103503	309,036793	0	0	TRUE	30,5%	410,3384781	0	0	TRUE	40,4%
1346	2	1014,447904	Non-Empty	628,727365	317,6644369	0	0	TRUE	299,8318901	0	336,7287942	308,1385766	0	0	TRUE	30,4%	307,7538586	0	0	TRUE	30,3%
1346	3	1014,447904	Non-Empty	634,8515932	355,6063778	0	0	TRUE	369,5915436	0	340,0087596	397,2725344	0	0	TRUE	39,2%	296,3555675	0	0	TRUE	29,2%
1347	1	1191,309254	Non-Empty	838,9011421	428,9698633	0	0	TRUE	424,7493173	0	414,9532856	377,6321524	0	0	TRUE	31,7%	508,4856571	0	0	TRUE	42,7%
1347	2	1191,309254	Non-Empty	796,394333	383,7523471	0	0	TRUE	376,8210939	0	393,9277568	358,4976716	0	0	TRUE	30,1%	377,7322024	0	0	TRUE	31,7%
1347	3	1191,309254	Non-Empty	773,1459769	378,5870434	0	0	TRUE	389,7388426	0	382,4282114	455,1794298	0	0	TRUE	38,2%	305,0913943	0	0	TRUE	25,6%
1348	1	1371,669926	Empty	590,7565995	494,6880587	56,69750508	0,041334656	FALSE	511,1824446	0,115589054	511,1824446	396,8271221	154,5584416	0,112679034	FALSE	28,9%	497,5665418	70,24182486	0,051208985	FALSE	36,3%
1348	2	1371,669926	Empty	560,2460184	433,8531921	56,69750508	0,041334656	FALSE	420,0232925	0,115589054	420,0232925	376,3323429	154,5584416	0,112679034	FALSE	27,4%	389,9845868	70,24182486	0,051208985	FALSE	28,4%
1348	3	1371,669926	Empty	558,3560883	443,1286572	56,69750508	0,041334656	FALSE	440,4641889	0,115589054	440,4641889	598,510461	154,5584416	0,112679034	FALSE	43,6%	484,1187974	70,24182486	0,051208985	FALSE	35,3%
1349	1	680,7873684	Non-Empty	525,4368162	211,5973909	0	0	TRUE	226,5252978	0	214,5720289	210,193379	0	0	TRUE	30,9%	246,785421	0	0	TRUE	36,3%
1349	2	680,7873684	Non-Empty	556,4718781	220,2405925	0	0	TRUE	212,7766391	0	227,2457815	222,6085055	0	0	TRUE	32,7%	246,785421	0	0	TRUE	36,3%
1349	3	680,7873684	Non-Empty	585,1806705	248,949385	0	0	TRUE	241,4854315	0	238,9695581	247,9854839	0	0	TRUE	36,4%	187,2165263	0	0	TRUE	27,5%
1350	1	1134,107319	Non-Empty	726,0680283	433,6841797	0	0	TRUE	411,6290936	0	423,341613	361,4869081	0	0	TRUE	31,9%	299,1052269	0	0	TRUE	26,4%
1350	2	1134,107319	Non-Empty	636,9596146	363,7058838	0	0	TRUE	360,7809155	0	371,3860137	317,1225735	0	0	TRUE	28,0%	461,1205582	0	0	TRUE	40,7%
1350	3	1134,107319	Non-Empty	582,0659634	336,7172552																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1365	1	1280,160804	Empty	555,9703466	398,7499115	126,1573924	0,098548082	FALSE	397,5792541	0,027735994	397,5792541	380,0919798	156,6400363	0,122359657	FALSE	29,7%	313,230835	208,5942201	0,162943764	FALSE	24,5%
1365	2	1280,160804	Empty	600,37600435	443,5853317	126,1573924	0,098548082	FALSE	442,8443977	0,027735994	442,8443977	410,4501623	156,6400363	0,122359657	FALSE	32,1%	422,1806907	208,5942201	0,162943764	FALSE	33,0%
1365	3	1280,160804	Empty	591,9637471	437,8255608	126,1573924	0,098548082	FALSE	439,7371522	0,027735994	439,7371522	489,6186619	156,6400363	0,122359657	FALSE	38,2%	544,7492783	208,5942201	0,162943764	FALSE	42,6%
1366	1	745,6805002	Empty	356,8483443	229,2833599	38,73203969	0,05194187	FALSE	230,8958318	0,09260464	230,8958318	213,3537375	42,34200669	0,056783041	FALSE	28,6%	201,0823821	54,79536211	0,0734837	FALSE	27,0%
1366	2	745,6805002	Empty	421,6388561	277,0988005	38,73203969	0,05194187	FALSE	261,7362012	0,09260464	261,7362012	252,30596	42,34200669	0,056783041	FALSE	33,8%	293,2451405	54,79536211	0,0734837	FALSE	39,3%
1366	3	745,6805002	Empty	354,7256689	239,2983399	38,73203969	0,05194187	FALSE	253,0484672	0,09260464	253,0484672	279,8388027	42,34200669	0,056783041	FALSE	37,5%	251,3529776	54,79536211	0,0734837	FALSE	33,7%
1367	1	747,748147	Non-Empty	439,3020139	233,9650387	0	0	TRUE	234,3721302	0	240,6534772	222,0748283	0	0	TRUE	29,7%	267,0529097	0	0	TRUE	35,7%
1367	2	747,748147	Non-Empty	451,0182853	244,843366	0	0	TRUE	244,4125133	0	247,071753	227,9976079	0	0	TRUE	30,5%	198,3821615	0	0	TRUE	26,5%
1367	3	747,748147	Non-Empty	474,6600478	268,9397423	0	0	TRUE	268,9635036	0	260,0229168	297,6757108	0	0	TRUE	39,8%	282,3130759	0	0	TRUE	37,8%
1368	1	891,7812238	Non-Empty	561,3511216	287,0833766	0	0	TRUE	266,7096091	0	302,7599305	263,5092039	0	0	TRUE	29,5%	263,4808161	0	0	TRUE	29,5%
1368	2	891,7812238	Non-Empty	568,0582859	338,0789019	0	0	TRUE	361,9934953	0	306,3773823	266,6576781	0	0	TRUE	29,9%	304,0163263	0	0	TRUE	34,1%
1368	3	891,7812238	Non-Empty	524,0537484	266,6189452	0	0	TRUE	263,0781194	0	282,643911	361,6143418	0	0	TRUE	40,5%	324,2840814	0	0	TRUE	36,4%
1369	1	1076,831476	Non-Empty	706,9941076	315,5075073	0	0	TRUE	329,4806441	0	331,985854	307,2912946	0	0	TRUE	28,5%	293,6813116	0	0	TRUE	27,3%
1369	2	1076,831476	Non-Empty	773,3898559	372,9888109	0	0	TRUE	378,0475029	0	363,1635525	336,1498596	0	0	TRUE	31,2%	391,5750821	0	0	TRUE	36,4%
1369	3	1076,831476	Non-Empty	812,8267235	388,3351576	0	0	TRUE	369,3033287	0	381,6820692	433,3903215	0	0	TRUE	40,2%	391,5750821	0	0	TRUE	36,4%
1370	1	729,9125626	Non-Empty	455,9779166	255,046549	0	0	TRUE	253,4339548	0	250,645236	224,7503679	0	0	TRUE	30,8%	265,42275	0	0	TRUE	36,4%
1370	2	729,9125626	Non-Empty	438,5515508	243,2099703	0	0	TRUE	247,1871632	0	241,0661854	216,160956	0	0	TRUE	29,6%	235,9313334	0	0	TRUE	32,3%
1370	3	729,9125626	Non-Empty	433,3394154	231,6560433	0	0	TRUE	229,2914446	0	238,2011411	289,0012387	0	0	TRUE	39,6%	228,5584792	0	0	TRUE	31,3%
1371	1	1175,586774	Non-Empty	574,3565739	374,9855363	0	0	TRUE	374,3051387	0	381,115163	335,9777811	0	0	TRUE	28,6%	342,8794756	0	0	TRUE	29,2%
1371	2	1175,586774	Non-Empty	604,4603179	385,9512737	0	0	TRUE	366,1328693	0	401,0905473	353,5873804	0	0	TRUE	30,1%	416,353649	0	0	TRUE	35,4%
1371	3	1175,586774	Non-Empty	592,8418014	414,6499635	0	0	TRUE	435,1487656	0	393,3810633	486,0216121	0	0	TRUE	41,3%	416,353649	0	0	TRUE	35,4%
1372	1	1157,107292	Empty	510,697916	345,720221	47,80829266	0,041317078	FALSE	334,5419833	0,116432109	334,5419833	326,4227093	110,1744406	0,095215406	FALSE	28,2%	406,2185173	77,26173047	0,066771449	FALSE	35,1%
1372	2	1157,107292	Empty	564,7890874	423,3623031	47,80829266	0,041317078	FALSE	435,734976	0,116432109	435,734976	360,9961551	110,1744406	0,095215406	FALSE	31,2%	393,9088653	77,26173047	0,066771449	FALSE	34,0%
1372	3	1157,107292	Empty	543,0186601	388,0247676	47,80829266	0,041317078	FALSE	386,8303324	0,116432109	386,8303324	469,6884273	110,1744406	0,095215406	FALSE	40,6%	356,9799092	77,26173047	0,066771449	FALSE	30,9%
1373	1	1026,990558	Non-Empty	755,2598454	355,7457029	0	0	TRUE	335,7608357	0	358,1697784	315,4567398	0	0	TRUE	30,7%	277,5650156	0	0	TRUE	27,0%
1373	2	1026,990558	Non-Empty	710,5048998	335,8203706	0	0	TRUE	340,6651167	0	336,9454686	296,7635055	0	0	TRUE	28,9%	360,8345202	0	0	TRUE	35,1%
1373	3	1026,990558	Non-Empty	699,813638	335,424484	0	0	TRUE	350,5646052	0	331,8753105	414,7703123	0	0	TRUE	40,4%	388,5910218	0	0	TRUE	37,8%
1374	1	1505,926562	Empty	608,3327567	494,5940172	113,7387395	0,075527414	FALSE	529,6838212	0,178898342	529,6838212	405,9327582	202,3999985	0,134402303	FALSE	27,0%	501,9755208	143,4152485	0,095233893	FALSE	33,3%
1374	2	1505,926562	Empty	680,3539557	524,2962513	113,7387395	0,075527414	FALSE	517,0670904	0,178898342	517,0670904	453,9915939	202,3999985	0,134402303	FALSE	30,1%	609,5417038	143,4152485	0,095233893	FALSE	40,5%
1374	3	1505,926562	Empty	663,7254806	487,0362939	113,7387395	0,075527414	FALSE	459,1756508	0,178898342	459,1756508	646,0022103	202,3999985	0,134402303	FALSE	42,9%	394,4093378	143,4152485	0,095233893	FALSE	26,2%
1375	1	1229,088853	Non-Empty	668,4207543	391,4199602	0	0	TRUE	408,6170938	0	389,0492274	347,5236268	0	0	TRUE	28,3%	516,7759948	0	0	TRUE	42,0%
1375	2	1229,088853	Non-Empty	723,0559853	422,3450199	0	0	TRUE	415,8319824	0	420,8492489	375,9294378	0	0	TRUE	30,6%	335,2060507	0	0	TRUE	27,3%
1375	3	1229,088853	Non-Empty	720,2058963	415,4328725	0	0	TRUE	404,6397764	0	419,1903763	505,635788	0	0	TRUE	41,1%	377,106807	0	0	TRUE	30,7%
1376	1	1856,740855	Empty	818,7161802	593,4842965	138,2556919	0,074461491	FALSE	580,650337	0,113886862	580,650337	540,3583303	240,700885	0,12963623	FALSE	29,1%	591,708624	127,6263468	0,068736758	FALSE	31,9%
1376	2	1856,740855	Empty	836,688487	654,66537	138,2556919	0,074461491	FALSE	685,0401771	0,113886862	685,0401771	552,2201769	240,700885	0,12963623	FALSE	29,7%	693,7273522	127,6263468	0,068736758	FALSE	37,4%
1376	3	1856,740855	Empty	838,52996	608,5911881	138,2556919	0,074461491	FALSE	591,0503404	0,113886862	591,0503404	764,1623474	240,700885	0,12963623	FALSE	41,2%	571,3048783	127,6263468	0,068736758	FALSE	30,8%
1377	1	1296,516437	Empty	549,4188872	418,4185251	157,6198288	0,121571794	FALSE	415,4817663	0,043875445	415,4817663	382,8579565	211,8259715	0,163380861	FALSE	29,5%	384,680701	182,5473764	0,140798351	FALSE	29,7%
1377	2	1296,516437	Empty	581,8616591	459,6715735	157,6198288	0,121571794	FALSE	465,5450912	0,043875445	465,5450912	405,4654308	211,8259715	0,163380861	FALSE	31,3%	470,1653013	182,5473764	0,140798351	FALSE	36,3%
1377	3	1296,516437	Empty	549,4267003	418,4263382	157,6198288	0,121571794	FALSE	415,4895793	0,043875445	415,4895793	508,1930495	211,8259715	0,163380861	FALSE	39,2%	441,6704345	182,5473764	0,140798351	FALSE	34,1%
1378	1	743,8288727	Non-Empty	444,3985207	249,7780738	0	0	TRUE	239,3486522	0	254,9799088	238,8780612	0	0	TRUE	32,1%	209,2018705	0	0	TRUE	28,1%
1378	2	743,8288727	Non-Empty	365,2129947	201,2907121	0	0	TRUE	221,5594548	0	209,5460983	196,313372	0	0	TRUE	26,4%	240,1947402	0	0	TRUE	32,3%
1378	3	743,8288727	Non-Empty	486,7904334	292,7600869	0	0	TRUE	282,9207657	0	279,3028656	308,6374396	0	0	TRUE	41,5%	294,4322621	0	0	TRUE	39,6%
1379	1	1842,525067	Empty	809,9479433	630,3408956	164,0953257	0,089060023	FALSE	629,0671811	0,061180673	629,0671811	556,6174189	222,3070802	0,12065349	FALSE	30,2%	740,8090477	287,8171442	0,156207994	FALSE	40,2%
1379	2	1842,525067	Empty	798,1042369	606,8066103	164,0953257	0,089060023	FALSE	593,8423171	0,061180673	593,8423171	548,4781139	222,3070802	0,12065349	FALSE	29,8%	455,8824909	287,8171442	0,156207994	FALSE	24,7%
1379	3	1842,525067	Empty	769,4728871	605,3775615	164,0953257	0,089060023	FALSE	619,6155691	0,061180673	619,6155691	737,4295346	222,3070802	0,12065349	FALSE	40,0%	645,8335288	287,8171442	0,156207994	FALSE	35,1%
1380	1	1684,069213	Empty	653,5403338	524,8331216	149,5029827	0,088774845	FALSE	544,079584	0,06740111	544,079584	469,3354481	205,0006562	0,121729353	FALSE	27,9%	591,2157874	279,6957506	0,166083287	FALSE	35,1%
1380	2	1684,069213	Empty	717,0944108	564,8580082	149,5029827	0,088774845	FALSE	560,5752802	0,06740111	560,5752802	514,9763668	205,0006562	0,121729353	FALSE	30,6%	662,8783071	279,6957506	0,166083287	FALSE	39,4%
1380	3	1684,069213	Empty	757,2954917	594,3780828	149,5029827	0,088774845	FALSE	579,4143485	0,06740111	579,4143485	699,7573978	205,0006562	0,121729353	FALSE	41,6%	429,9751181	279,6957506	0,166083287	FALSE	25,5%
1381	1	1527,485923	Empty	688,7420271	501,8706808	16,63865587	0,010892837	FALSE	489,0591848												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1396	1	1318,337164	Empty	646,7902328	439,33114	127,5900798	0,096781069	FALSE	432,8479966	0,092421921	432,8479966	422,7424421	157,4394109	0,119422721	FALSE	32,1%	429,2260533	192,3978254	0,145939772	FALSE	32,6%
1396	2	1318,337164	Empty	596,8870459	419,9750236	127,5900798	0,096781069	FALSE	444,0389506	0,092421921	444,0389506	390,1256925	157,4394109	0,119422721	FALSE	29,6%	536,5325666	192,3978254	0,145939772	FALSE	40,7%
1396	3	1318,337164	Empty	677,5877328	459,0309999	127,5900798	0,096781069	FALSE	441,4502164	0,092421921	441,4502164	505,469029	157,4394109	0,119422721	FALSE	38,3%	352,5785437	192,3978254	0,145939772	FALSE	26,7%
1397	1	996,2918431	Non-Empty	574,0222326	362,9496817	0	0	TRUE	350,8862353	0	350,932274	324,1784461	0	0	TRUE	32,5%	312,0914207	0	0	TRUE	31,3%
1397	2	996,2918431	Non-Empty	463,5083005	262,2394589	0	0	TRUE	259,9797216	0	289,8286493	261,7658204	0	0	TRUE	26,3%	288,0843884	0	0	TRUE	28,9%
1397	3	996,2918431	Non-Empty	555,7886233	371,1027025	0	0	TRUE	385,4258862	0	347,5309197	410,3475766	0	0	TRUE	41,2%	396,116034	0	0	TRUE	39,8%
1398	1	1310,685538	Non-Empty	764,1393746	400,0972652	0	0	TRUE	393,571305	0	420,2467879	392,8668467	0	0	TRUE	30,0%	422,3320068	0	0	TRUE	32,2%
1398	2	1310,685538	Non-Empty	793,306157	428,572784	0	0	TRUE	421,3555603	0	436,2873782	407,8623596	0	0	TRUE	31,1%	349,5161435	0	0	TRUE	26,7%
1398	3	1310,685538	Non-Empty	825,7884545	482,0154891	0	0	TRUE	495,758673	0	454,1513722	509,9563319	0	0	TRUE	38,9%	538,8373879	0	0	TRUE	41,1%
1399	1	1884,995654	Empty	804,6553834	614,0184505	163,9358397	0,086968816	FALSE	605,1180861	0,071975384	605,1180861	568,9874625	182,2657345	0,09669292	FALSE	30,2%	615,889669	208,8414858	0,110791495	FALSE	32,7%
1399	2	1884,995654	Empty	800,8188209	610,181888	163,9358397	0,086968816	FALSE	601,2815236	0,071975384	601,2815236	566,2745546	182,2657345	0,09669292	FALSE	30,0%	653,2163156	208,8414858	0,110791495	FALSE	34,7%
1399	3	1884,995654	Empty	824,7311548	660,7953151	163,9358397	0,086968816	FALSE	678,5960439	0,071975384	678,5960439	749,7336365	182,2657345	0,09669292	FALSE	39,8%	615,889669	208,8414858	0,110791495	FALSE	32,7%
1400	1	1121,434014	Non-Empty	677,2226971	347,8831599	0	0	TRUE	371,7150005	0	348,2249536	312,4579499	0	0	TRUE	27,9%	353,4955043	0	0	TRUE	31,5%
1400	2	1121,434014	Non-Empty	769,5777416	409,6336236	0	0	TRUE	402,8608835	0	395,7135142	355,0688488	0	0	TRUE	31,7%	414,443005	0	0	TRUE	37,0%
1400	3	1121,434014	Non-Empty	734,1477083	363,91723	0	0	TRUE	346,8581296	0	377,4955458	453,9072148	0	0	TRUE	40,5%	353,4955043	0	0	TRUE	31,5%
1401	1	1407,362777	Empty	637,045821	508,0153972	60,8286755	0,043221745	FALSE	539,4763465	0,167623075	539,4763465	405,7157659	163,1283068	0,11591063	FALSE	28,8%	464,4297165	104,4143562	0,074191501	FALSE	33,0%
1401	2	1407,362777	Empty	632,8275026	451,0818703	60,8286755	0,043221745	FALSE	429,8276109	0,167623075	429,8276109	403,0292428	163,1283068	0,11591063	FALSE	28,6%	562,9451109	104,4143562	0,074191501	FALSE	40,0%
1401	3	1407,362777	Empty	618,9635728	448,2655098	60,8286755	0,043221745	FALSE	438,0588199	0,167623075	438,0588199	598,6177686	163,1283068	0,11591063	FALSE	42,5%	379,9879499	104,4143562	0,074191501	FALSE	27,0%
1402	1	705,1380704	Non-Empty	338,3330583	198,6114809	0	0	TRUE	222,6016437	0	199,4289446	178,7196276	0	0	TRUE	25,3%	227,4638937	0	0	TRUE	32,3%
1402	2	705,1380704	Non-Empty	437,778006	259,4888183	0	0	TRUE	244,9113707	0	258,046335	231,2500074	0	0	TRUE	32,8%	242,6281532	0	0	TRUE	34,4%
1402	3	705,1380704	Non-Empty	420,1622267	247,0377712	0	0	TRUE	237,6250559	0	247,6627908	295,1684354	0	0	TRUE	41,9%	235,0460235	0	0	TRUE	33,3%
1403	1	1181,271762	Non-Empty	847,7974532	473,6901419	0	0	TRUE	470,4083296	0	436,6125129	384,3963818	0	0	TRUE	32,5%	435,2053859	0	0	TRUE	36,8%
1403	2	1181,271762	Non-Empty	737,9090846	363,8017733	0	0	TRUE	360,519961	0	380,0204147	334,5723453	0	0	TRUE	28,3%	385,4676275	0	0	TRUE	32,6%
1403	3	1181,271762	Non-Empty	708,0417209	343,7798465	0	0	TRUE	350,343471	0	364,6388342	462,3030346	0	0	TRUE	39,1%	360,5987483	0	0	TRUE	30,5%
1404	1	1435,983882	Empty	657,1635847	532,2462849	32,16540037	0,022399555	FALSE	535,5746056	0,063479596	535,5746056	451,2454845	113,1662008	0,078807431	FALSE	31,4%	555,8647286	114,450146	0,079701553	FALSE	38,7%
1404	2	1435,983882	Empty	529,471605	399,5618241	32,16540037	0,022399555	FALSE	397,8976637	0,063479596	397,8976637	363,5649882	113,1662008	0,078807431	FALSE	25,3%	463,2206071	114,450146	0,079701553	FALSE	32,3%
1404	3	1435,983882	Empty	634,0855542	504,1757732	32,16540037	0,022399555	FALSE	502,5116128	0,063479596	502,5116128	621,1734094	113,1662008	0,078807431	FALSE	43,3%	416,8985464	114,450146	0,079701553	FALSE	29,0%
1405	1	980,472638	Non-Empty	611,4109773	305,0091423	0	0	TRUE	308,9710955	0	313,6027531	288,9604124	0	0	TRUE	29,5%	356,5355047	0	0	TRUE	36,4%
1405	2	980,472638	Non-Empty	681,9664332	348,8982877	0	0	TRUE	326,1939304	0	349,7918076	322,3057961	0	0	TRUE	32,9%	334,2520357	0	0	TRUE	34,1%
1405	3	980,472638	Non-Empty	618,1865917	326,5652079	0	0	TRUE	345,3076121	0	317,0780772	369,2064294	0	0	TRUE	37,7%	289,6850976	0	0	TRUE	29,5%
1406	1	796,2154562	Non-Empty	451,7399181	214,7438297	0	0	TRUE	261,9188873	0	218,157337	205,196668	0	0	TRUE	25,8%	272,6765261	0	0	TRUE	34,2%
1406	2	796,2154562	Non-Empty	599,0310203	291,3534278	0	0	TRUE	267,8469813	0	289,2881654	272,101633	0	0	TRUE	34,2%	294,4906482	0	0	TRUE	37,0%
1406	3	796,2154562	Non-Empty	597,9579558	290,1181987	0	0	TRUE	266,4495875	0	288,7699538	318,9171552	0	0	TRUE	40,1%	229,0482819	0	0	TRUE	28,8%
1407	1	1124,038621	Non-Empty	628,4960288	375,1577527	0	0	TRUE	355,1460627	0	387,3062999	334,2334561	0	0	TRUE	29,7%	388,6862523	0	0	TRUE	34,6%
1407	2	1124,038621	Non-Empty	573,3082688	380,0050624	0	0	TRUE	420,0284423	0	353,2972272	304,8846696	0	0	TRUE	27,1%	409,69632	0	0	TRUE	36,4%
1407	3	1124,038621	Non-Empty	622,2140824	368,8758063	0	0	TRUE	348,8641164	0	383,4350942	484,9204957	0	0	TRUE	43,1%	325,6560492	0	0	TRUE	29,0%
1408	1	1350,421856	Empty	602,3519484	487,0424206	67,57113591	0,050037057	FALSE	480,3232113	0,033744621	480,3232113	405,4394373	142,6993369	0,105670192	FALSE	30,0%	362,3083027	177,8223733	0,131679129	FALSE	26,8%
1408	2	1350,421856	Empty	538,2428221	437,4161748	67,57113591	0,050037057	FALSE	445,179846	0,033744621	445,179846	362,2879738	142,6993369	0,105670192	FALSE	26,8%	428,1825395	177,8223733	0,131679129	FALSE	31,7%
1408	3	1350,421856	Empty	535,5980406	425,9632601	67,57113591	0,050037057	FALSE	424,9187982	0,033744621	424,9187982	582,6944444	142,6993369	0,105670192	FALSE	43,1%	559,9310133	177,8223733	0,131679129	FALSE	41,5%
1409	1	875,5270811	Non-Empty	512,0263632	269,5833548	0	0	TRUE	263,0187275	0	283,1629888	261,1360767	0	0	TRUE	29,8%	325,9941259	0	0	TRUE	37,2%
1409	2	875,5270811	Non-Empty	501,2180608	287,1988068	0	0	TRUE	309,0579341	0	277,1857356	255,6237869	0	0	TRUE	29,2%	288,7376544	0	0	TRUE	33,0%
1409	3	875,5270811	Non-Empty	569,9178007	318,7449195	0	0	TRUE	303,4504195	0	315,1783568	358,7672175	0	0	TRUE	41,0%	260,7953008	0	0	TRUE	29,8%
1410	1	1514,038005	Empty	735,7848789	511,5442722	125,7882574	0,083081308	FALSE	492,3687216	0,119680179	492,3687216	501,9919158	118,7878205	0,078457621	FALSE	33,2%	609,3079775	204,5837064	0,135124552	FALSE	40,2%
1410	2	1514,038005	Empty	653,9933868	443,6374527	125,7882574	0,083081308	FALSE	438,3465748	0,119680179	438,3465748	446,1893722	118,7878205	0,078457621	FALSE	29,5%	424,6691964	204,5837064	0,135124552	FALSE	28,0%
1410	3	1514,038005	Empty	739,4549074	558,8562797	125,7882574	0,083081308	FALSE	583,3227082	0,119680179	583,3227082	565,8567166	118,7878205	0,078457621	FALSE	37,4%	480,0608307	204,5837064	0,135124552	FALSE	31,7%
1411	1	1665,759377	Empty	698,7676972	523,9473363	164,0303157	0,098471795	FALSE	522,9803501	0,063169401	522,9803501	469,3931676	255,7735327	0,153547707	FALSE	28,2%	431,8635423	247,9234444	0,148835089	FALSE	25,9%
1411	2	1665,759377	Empty	787,1085136	620,4788181	164,0303157	0,098471795	FALSE	627,7024973	0,063169401	627,7024973	528,7356012	255,7735327	0,153547707	FALSE	31,7%	658,0777787	247,9234444	0,148835089	FALSE	39,5%
1411	3	1665,759377	Empty	701,4432905	521,3332228	164,0303157	0,098471795	FALSE	515,0765299	0,063169401	515,0765299	667,6306084	255,7735327	0,153547707	FALSE	40,1%	575,8180563	247,9234444	0,148835089	FALSE	34,6%
1412	1	1843,399762	Empty	828,3388576	622,2546336	166,5345607	0,090340991	FALSE	614,3530907	0,044954814	614,3530907	575,3611982	218,6934714	0,118635944	FALSE	31,2%	529,4871656	233,5138018	0,126675617	FALSE	28,7%
1412	2	1843,3997																			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1427	1	859,6819717	Non-Empty	528,9453355	261,1023546	0	0	TRUE	261,9729413	0	272,9730937	265,5164886	0	0	TRUE	30,9%	349,245801	0	0	TRUE	40,6%
1427	2	859,6819717	Non-Empty	523,2506859	259,7432965	0	0	TRUE	264,9494746	0	270,0342529	262,657926	0	0	TRUE	30,6%	205,9654724	0	0	TRUE	24,0%
1427	3	859,6819717	Non-Empty	613,626653	338,8363206	0	0	TRUE	332,7595558	0	316,6746251	331,507557	0	0	TRUE	38,6%	304,4706983	0	0	TRUE	35,4%
1428	1	1080,575968	Non-Empty	793,6931171	382,2596249	0	0	TRUE	374,6706831	0	374,1730768	353,8420815	0	0	TRUE	32,7%	351,1871897	0	0	TRUE	32,5%
1428	2	1080,575968	Non-Empty	709,7115058	321,0448391	0	0	TRUE	336,2227228	0	334,5813791	316,4016306	0	0	TRUE	29,3%	337,6799901	0	0	TRUE	31,3%
1428	3	1080,575968	Non-Empty	788,7049966	377,2715044	0	0	TRUE	369,6825625	0	371,8215125	410,3322563	0	0	TRUE	38,0%	391,7087885	0	0	TRUE	36,3%
1429	1	1477,156986	Empty	712,3035459	475,5335536	146,3850455	0,09909918	FALSE	457,3813044	0,131320856	457,3813044	455,5397564	134,4567147	0,091023985	FALSE	30,8%	412,2298565	158,0805645	0,107016767	FALSE	27,9%
1429	2	1477,156986	Empty	751,1110087	517,1895857	146,3850455	0,09909918	FALSE	501,8859059	0,131320856	501,8859059	480,3583078	134,4567147	0,091023985	FALSE	32,5%	532,4635646	158,0805645	0,107016767	FALSE	36,0%
1429	3	1477,156986	Empty	669,5956607	484,4338465	146,3850455	0,09909918	FALSE	517,8897754	0,131320856	517,8897754	541,2589216	134,4567147	0,091023985	FALSE	36,6%	532,4635646	158,0805645	0,107016767	FALSE	36,0%
1430	1	1101,283467	Empty	451,1525032	342,7207898	53,17103497	0,048280971	FALSE	358,3144291	0,086965903	358,3144291	300,8051857	95,08663904	0,086341657	FALSE	27,3%	330,38504	83,39560218	0,075725828	FALSE	30,0%
1430	2	1101,283467	Empty	503,630047	377,9039704	53,17103497	0,048280971	FALSE	376,2032465	0,086965903	376,2032465	335,7945013	95,08663904	0,086341657	FALSE	30,5%	330,38504	83,39560218	0,075725828	FALSE	30,0%
1430	3	1101,283467	Empty	518,5769746	380,6587064	53,17103497	0,048280971	FALSE	366,765791	0,086965903	366,765791	464,6837796	95,08663904	0,086341657	FALSE	42,2%	440,5133867	83,39560218	0,075725828	FALSE	40,0%
1431	1	1109,516073	Non-Empty	709,8843876	436,8384677	0	0	TRUE	457,5170555	0	395,6559272	340,4606639	0	0	TRUE	30,7%	454,50056	0	0	TRUE	41,0%
1431	2	1109,516073	Non-Empty	635,6789243	353,0108982	0	0	TRUE	364,0673798	0	354,2973174	304,871712	0	0	TRUE	27,5%	374,2945788	0	0	TRUE	33,7%
1431	3	1109,516073	Non-Empty	645,1262843	319,6667072	0	0	TRUE	287,9316377	0	359,5628284	464,183697	0	0	TRUE	41,8%	280,7209341	0	0	TRUE	25,3%
1432	1	1438,719771	Non-Empty	839,6120822	495,3375831	0	0	TRUE	508,9353384	0	480,8139698	429,8910022	0	0	TRUE	29,9%	452,6309391	0	0	TRUE	31,5%
1432	2	1438,719771	Non-Empty	813,0048643	459,4921298	0	0	TRUE	463,8516496	0	465,5770261	416,267802	0	0	TRUE	28,9%	484,9617204	0	0	TRUE	33,7%
1432	3	1438,719771	Non-Empty	859,7195873	483,8900578	0	0	TRUE	465,9327826	0	492,3287748	592,5609664	0	0	TRUE	41,2%	501,1271111	0	0	TRUE	34,8%
1433	1	1772,231194	Empty	730,9649641	574,6803354	146,1476652	0,08246535	FALSE	612,7022979	0,128246083	612,7022979	494,6046009	226,2233997	0,127648921	FALSE	27,9%	625,4933625	140,4912091	0,079273635	FALSE	35,3%
1433	2	1772,231194	Empty	809,1391246	594,6461436	146,1476652	0,08246535	FALSE	574,459754	0,128246083	574,459754	547,5008426	226,2233997	0,127648921	FALSE	30,9%	542,0942475	140,4912091	0,079273635	FALSE	30,6%
1433	3	1772,231194	Empty	815,0468789	602,9047147	146,1476652	0,08246535	FALSE	585,0691418	0,128246083	585,0691418	730,1257503	226,2233997	0,127648921	FALSE	41,2%	604,6435837	140,4912091	0,079273635	FALSE	34,1%
1434	1	675,4441357	Non-Empty	292,3035521	158,8671705	0	0	TRUE	185,824334	0	170,6990245	161,8963339	0	0	TRUE	24,0%	248,8478395	0	0	TRUE	36,8%
1434	2	675,4441357	Non-Empty	418,3817522	248,7991238	0	0	TRUE	239,6100406	0	244,3259975	231,7264753	0	0	TRUE	34,3%	184,858395	0	0	TRUE	27,4%
1434	3	675,4441357	Non-Empty	445,9394667	267,7778413	0	0	TRUE	250,009761	0	260,491136	281,8213265	0	0	TRUE	41,7%	241,7379012	0	0	TRUE	35,8%
1435	1	1549,295988	Non-Empty	943,5731738	530,4307564	0	0	TRUE	545,8802981	0	515,6391802	472,210807	0	0	TRUE	30,5%	461,0999964	0	0	TRUE	29,8%
1435	2	1549,295988	Non-Empty	912,7041394	481,6386951	0	0	TRUE	479,16521	0	498,7700237	456,7624114	0	0	TRUE	29,5%	571,7639956	0	0	TRUE	36,9%
1435	3	1549,295988	Non-Empty	978,7945521	537,2265365	0	0	TRUE	524,2504799	0	534,8867841	620,3227696	0	0	TRUE	40,0%	516,431996	0	0	TRUE	33,3%
1436	1	696,7227462	Non-Empty	430,5314813	258,2976018	0	0	TRUE	231,5821575	0	264,6844484	234,6649284	0	0	TRUE	33,7%	219,6191265	0	0	TRUE	31,5%
1436	2	696,7227462	Non-Empty	341,0948639	202,2849701	0	0	TRUE	208,9935115	0	209,700126	185,9167221	0	0	TRUE	26,7%	227,1921999	0	0	TRUE	32,6%
1436	3	696,7227462	Non-Empty	361,6517067	236,1401743	0	0	TRUE	256,1470772	0	222,3381719	276,1410957	0	0	TRUE	39,6%	249,9114198	0	0	TRUE	35,9%
1437	1	971,7761685	Non-Empty	596,6693537	319,2120903	0	0	TRUE	313,6073673	0	324,410058	290,5907221	0	0	TRUE	29,9%	366,895084	0	0	TRUE	37,8%
1437	2	971,7761685	Non-Empty	608,3502971	339,360592	0	0	TRUE	342,2234273	0	330,7610051	296,2795911	0	0	TRUE	30,5%	307,3985839	0	0	TRUE	31,6%
1437	3	971,7761685	Non-Empty	582,3141392	313,2034863	0	0	TRUE	315,9453739	0	316,6051055	384,9058553	0	0	TRUE	39,6%	297,4825006	0	0	TRUE	30,6%
1438	1	1018,918524	Non-Empty	644,5114079	307,1201755	0	0	TRUE	305,7421173	0	323,9853008	302,6526301	0	0	TRUE	29,7%	331,7409149	0	0	TRUE	32,6%
1438	2	1018,918524	Non-Empty	697,1369015	364,9976656	0	0	TRUE	368,8716039	0	350,4392722	327,3647513	0	0	TRUE	32,1%	402,8282538	0	0	TRUE	39,5%
1438	3	1018,918524	Non-Empty	685,3097377	346,8006832	0	0	TRUE	344,304803	0	344,4939512	388,9011429	0	0	TRUE	38,2%	284,3493556	0	0	TRUE	27,9%
1439	1	1864,690265	Empty	767,2640037	602,6599117	210,7798676	0,113037469	FALSE	618,1022369	0,060164357	618,1022369	534,0306905	279,4090888	0,149842091	FALSE	28,6%	686,9911502	359,3284022	0,192701388	FALSE	36,8%
1439	2	1864,690265	Empty	838,2748504	654,5012963	210,7798676	0,113037469	FALSE	650,7741595	0,060164357	650,7741595	583,4556228	279,4090888	0,149842091	FALSE	31,3%	745,876106	359,3284022	0,192701388	FALSE	40,0%
1439	3	1864,690265	Empty	799,2906625	607,5290569	210,7798676	0,113037469	FALSE	595,8138685	0,060164357	595,8138685	747,2039516	279,4090888	0,149842091	FALSE	40,1%	431,8230087	359,3284022	0,192701388	FALSE	23,2%
1440	1	1588,076814	Empty	793,9733896	619,6271078	98,54689714	0,062054238	FALSE	634,3169368	0,114497835	634,3169368	511,2374056	206,9365993	0,130306417	FALSE	32,2%	443,1842272	274,9897777	0,17315899	FALSE	27,9%
1440	2	1588,076814	Empty	652,9225631	466,4406634	98,54689714	0,062054238	FALSE	468,9948746	0,114497835	468,9948746	420,4151444	206,9365993	0,130306417	FALSE	26,5%	627,8443219	274,9897777	0,17315899	FALSE	39,5%
1440	3	1588,076814	Empty	708,2891943	502,0090431	98,54689714	0,062054238	FALSE	484,7650028	0,114497835	484,7650028	656,4242643	206,9365993	0,130306417	FALSE	41,3%	517,0482651	274,9897777	0,17315899	FALSE	32,6%
1441	1	1185,605166	Non-Empty	585,3116843	384,8207788	0	0	TRUE	381,530418	0	390,4714728	342,098629	0	0	TRUE	28,9%	474,2420665	0	0	TRUE	40,0%
1441	2	1185,605166	Non-Empty	557,4404903	373,1388832	0	0	TRUE	386,0378207	0	371,8781209	325,8086804	0	0	TRUE	27,5%	296,4012915	0	0	TRUE	25,0%
1441	3	1185,605166	Non-Empty	634,4546254	427,6455042	0	0	TRUE	418,0369275	0	423,2555725	517,6978568	0	0	TRUE	43,7%	414,9618082	0	0	TRUE	35,0%
1442	1	916,6980263	Non-Empty	521,1359875	280,9251947	0	0	TRUE	297,2017073	0	283,3208874	243,9347206	0	0	TRUE	26,6%	353,3106977	0	0	TRUE	38,5%
1442	2	916,6980263	Non-Empty	641,8935367	373,9993227	0	0	TRUE	362,5924142	0	348,9719589	300,4592358	0	0	TRUE	32,8%	267,3702577	0	0	TRUE	29,2%
1442	3	916,6980263	Non-Empty	523,1304183	261,7735089	0	0	TRUE	256,9039049	0	284,40518	372,3040699	0	0	TRUE	40,6%	296,017071	0	0	TRUE	32,3%
1443	1	806,3490634	Non-Empty	508,7358808	264,2044	0	0	TRUE	290,6043541	0	253,3553909	242,0621105	0	0	TRUE	30,0%	296,0015549	0	0	TRUE	36,7%
1443	2	806,3490634	Non-Empty	516,1059445	235,4153167	0	0	TRUE	225,6561238	0	257,0257539	245,5688676	0	0	TRUE	30,5%	234,7598539	0	0	TRUE	29,1%
1443	3	806,3490634	Non-Empty	594,3015431	306,7293468	0	0	TRUE	290,0885855	0	295,9679186	318,7180854	0	0	TRUE	39,5%	275,5876546	0	0	TRUE	34,2%
1444	1	1458,207498	Empty	652,9720271	497,1638862	140															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1458	1	858,3687809	Non-Empty	499,3581997	299,0487447	0	0	TRUE	293,9310203	0	296,8491141	260,3104309	0	0	TRUE	30,3%	273,1173394	0	0	TRUE	31,8%
1458	2	858,3687809	Non-Empty	489,7415616	277,7148953	0	0	TRUE	260,8799597	0	291,1323951	255,2973737	0	0	TRUE	29,7%	263,3631487	0	0	TRUE	30,7%
1458	3	858,3687809	Non-Empty	454,8442112	281,6051408	0	0	TRUE	303,5578009	0	270,3872716	342,7609763	0	0	TRUE	39,9%	321,8882928	0	0	TRUE	37,5%
1459	1	1397,383752	Empty	591,2994905	460,4086878	111,9466793	0,080111622	FALSE	478,196091	0,084505009	478,196091	398,9489875	173,4063796	0,124093599	FALSE	28,5%	476,0318276	162,0092097	0,115937522	FALSE	34,1%
1459	2	1397,383752	Empty	628,3452933	473,5540897	111,9466793	0,080111622	FALSE	467,4410921	0,084505009	467,4410921	423,9437419	173,4063796	0,124093599	FALSE	30,3%	537,4552892	162,0092097	0,115937522	FALSE	38,5%
1459	3	1397,383752	Empty	623,7735857	463,4209743	111,9466793	0,080111622	FALSE	451,7465688	0,084505009	451,7465688	574,4910225	173,4063796	0,124093599	FALSE	41,1%	383,8966351	162,0092097	0,115937522	FALSE	27,5%
1460	1	710,59385	Non-Empty	500,7953756	239,246142	0	0	TRUE	236,5884487	0	239,2722773	225,764394	0	0	TRUE	31,8%	183,3790581	0	0	TRUE	25,8%
1460	2	710,59385	Non-Empty	476,5966613	228,7822227	0	0	TRUE	239,8593243	0	227,7105063	214,8553315	0	0	TRUE	30,2%	297,9909693	0	0	TRUE	41,9%
1460	3	710,59385	Non-Empty	509,8764338	242,5654853	0	0	TRUE	234,146077	0	243,6110664	269,9741244	0	0	TRUE	38,0%	229,2238226	0	0	TRUE	32,3%
1461	1	1277,791686	Non-Empty	638,0790794	436,0556145	0	0	TRUE	457,6169821	0	418,4310074	353,3649487	0	0	TRUE	27,7%	425,930562	0	0	TRUE	33,3%
1461	2	1277,791686	Non-Empty	681,0263661	441,2994058	0	0	TRUE	425,157278	0	446,5944076	377,1489377	0	0	TRUE	29,5%	414,0991575	0	0	TRUE	32,4%
1461	3	1277,791686	Non-Empty	629,4407379	400,4366656	0	0	TRUE	395,0174257	0	412,7662708	547,2777995	0	0	TRUE	42,8%	437,7619665	0	0	TRUE	34,3%
1462	1	1636,895224	Empty	749,9315101	557,3694797	166,4586606	0,101691702	FALSE	552,4390261	0,050700221	552,4390261	499,796084	235,2201803	0,143698984	FALSE	30,5%	539,2125444	169,8242351	0,103747774	FALSE	32,9%
1462	2	1636,895224	Empty	739,1286393	561,3579696	166,4586606	0,101691702	FALSE	571,2188768	0,050700221	571,2188768	492,5964499	235,2201803	0,143698984	FALSE	30,1%	596,9853171	169,8242351	0,103747774	FALSE	36,5%
1462	3	1636,895224	Empty	710,7298053	518,1677749	166,4586606	0,101691702	FALSE	513,2373213	0,050700221	513,2373213	644,5026902	235,2201803	0,143698984	FALSE	39,4%	500,6973627	169,8242351	0,103747774	FALSE	30,6%
1463	1	1396,700452	Empty	560,2025529	432,5084581	96,61181033	0,069171461	FALSE	448,2147457	0,055677714	448,2147457	388,604034	140,5162344	0,100605849	FALSE	27,8%	442,518955	143,2889683	0,102591052	FALSE	31,7%
1463	2	1396,700452	Empty	622,5229186	471,2693924	96,61181033	0,069171461	FALSE	463,4162485	0,055677714	463,4162485	431,8347286	140,5162344	0,100605849	FALSE	30,9%	401,0328029	143,2889683	0,102591052	FALSE	28,7%
1463	3	1396,700452	Empty	644,1761274	492,9226012	96,61181033	0,069171461	FALSE	485,0694574	0,055677714	485,0694574	576,261689	140,5162344	0,100605849	FALSE	41,3%	553,1486937	143,2889683	0,102591052	FALSE	39,6%
1464	1	1629,174557	Empty	705,8823167	525,2109256	137,8258026	0,084598548	FALSE	510,7230133	0,112643842	510,7230133	492,7152705	201,7795317	0,123853844	FALSE	30,2%	444,3203337	175,870806	0,107950867	FALSE	27,3%
1464	2	1629,174557	Empty	668,1736498	530,3478472	137,8258026	0,084598548	FALSE	558,7055235	0,112643842	558,7055235	466,3941181	201,7795317	0,123853844	FALSE	28,6%	647,9671533	175,870806	0,107950867	FALSE	39,8%
1464	3	1629,174557	Empty	753,6690267	573,615784	137,8258026	0,084598548	FALSE	559,7460201	0,112643842	559,7460201	670,0651682	201,7795317	0,123853844	FALSE	41,1%	536,8870699	175,870806	0,107950867	FALSE	33,0%
1465	1	895,3294242	Non-Empty	562,3048587	330,2026526	0	0	TRUE	320,2679575	0	322,3445923	283,1103429	0	0	TRUE	31,6%	211,2575046	0	0	TRUE	23,6%
1465	2	895,3294242	Non-Empty	507,5839789	277,0345917	0	0	TRUE	268,6527155	0	290,9755236	255,559368	0	0	TRUE	28,5%	301,7964351	0	0	TRUE	33,7%
1465	3	895,3294242	Non-Empty	491,9431195	288,0921799	0	0	TRUE	306,4087512	0	282,0093083	356,6597132	0	0	TRUE	39,8%	382,2754845	0	0	TRUE	42,7%
1466	1	735,8240074	Non-Empty	469,9659218	206,6325885	0	0	TRUE	212,4499576	0	224,0766929	207,8464131	0	0	TRUE	28,2%	218,3214088	0	0	TRUE	29,7%
1466	2	735,8240074	Non-Empty	559,4276932	287,3683062	0	0	TRUE	284,4596217	0	266,7314832	247,4116399	0	0	TRUE	33,6%	202,1494526	0	0	TRUE	27,5%
1466	3	735,8240074	Non-Empty	513,8824996	241,8231126	0	0	TRUE	238,9144281	0	245,0158313	280,5659544	0	0	TRUE	38,1%	315,353146	0	0	TRUE	42,9%
1467	1	936,1346513	Empty	394,3554642	279,9540325	40,4665231	0,043227246	FALSE	278,9097874	0,05439636	278,9097874	249,1230472	101,2740628	0,108183222	FALSE	26,6%	300,4876658	52,25858068	0,055823786	FALSE	32,1%
1467	2	936,1346513	Empty	481,0191016	367,0153312	40,4665231	0,043227246	FALSE	366,3687474	0,05439636	366,3687474	303,8703789	101,2740628	0,108183222	FALSE	32,5%	358,2737554	52,25858068	0,055823786	FALSE	38,3%
1467	3	936,1346513	Empty	400,8316454	289,1652876	40,4665231	0,043227246	FALSE	290,8561164	0,05439636	290,8561164	383,1412253	101,2740628	0,108183222	FALSE	40,9%	277,37323	52,25858068	0,055823786	FALSE	29,6%
1468	1	1137,255445	Non-Empty	657,7555691	417,3577722	0	0	TRUE	405,2095893	0	410,5566513	359,0423405	0	0	TRUE	31,6%	265,3596038	15,74489459	0,013844642	FALSE	23,3%
1468	2	1137,255445	Non-Empty	564,0902644	334,0501701	0	0	TRUE	332,2597901	0	352,0928152	307,9142136	0	0	TRUE	27,1%	480,1745211	15,74489459	0,013844642	FALSE	42,2%
1468	3	1137,255445	Non-Empty	600,1587541	385,8475525	0	0	TRUE	399,7860653	0	374,6059782	470,2988905	0	0	TRUE	41,4%	391,7213198	15,74489459	0,013844642	FALSE	34,4%
1469	1	1634,354052	Empty	672,1959711	509,4661847	110,6052142	0,067675186	FALSE	507,4437126	0,077316075	507,4437126	467,7658687	178,7860642	0,109392493	FALSE	28,6%	453,088252	146,8026734	0,089823055	FALSE	27,7%
1469	2	1634,354052	Empty	692,911488	550,3621752	110,6052142	0,067675186	FALSE	568,5201766	0,077316075	568,5201766	482,1813252	178,7860642	0,109392493	FALSE	29,5%	614,9054849	146,8026734	0,089823055	FALSE	37,6%
1469	3	1634,354052	Empty	751,3685356	574,525692	110,6052142	0,067675186	FALSE	558,3901627	0,077316075	558,3901627	684,406858	178,7860642	0,109392493	FALSE	41,9%	566,360315	146,8026734	0,089823055	FALSE	34,7%
1470	1	1006,702954	Non-Empty	598,7086284	384,3314558	0	0	TRUE	379,1131408	0	368,8222347	300,4007904	0	0	TRUE	29,8%	298,6920853	0	0	TRUE	29,7%
1470	2	1006,702954	Non-Empty	567,4768404	349,7651478	0	0	TRUE	341,2123127	0	349,5825289	284,7303067	0	0	TRUE	28,3%	342,9427646	0	0	TRUE	34,1%
1470	3	1006,702954	Non-Empty	467,9940578	272,6063504	0	0	TRUE	286,3775006	0	288,2981905	421,5718569	0	0	TRUE	41,9%	365,0681042	0	0	TRUE	36,3%
1471	1	1122,31742	Non-Empty	570,7598503	374,8866815	0	0	TRUE	402,2796614	0	357,4399038	314,5041756	0	0	TRUE	28,0%	428,1004592	0	0	TRUE	38,1%
1471	2	1122,31742	Non-Empty	594,9185189	357,6980011	0	0	TRUE	343,743632	0	372,5693355	327,816258	0	0	TRUE	29,2%	416,5301765	0	0	TRUE	37,1%
1471	3	1122,31742	Non-Empty	626,4374965	389,7327373	0	0	TRUE	376,2941266	0	392,3081807	479,9969863	0	0	TRUE	42,8%	277,6867843	0	0	TRUE	24,7%
1472	1	1428,961094	Empty	562,1806593	445,0768428	91,71108702	0,064180255	FALSE	451,0400605	0,180300155	451,0400605	378,7119177	132,6832826	0,092852971	FALSE	26,5%	457,8224863	115,6079539	0,0809035	FALSE	32,0%
1472	2	1428,961094	Empty	683,0338469	522,6476479	91,71108702	0,064180255	FALSE	485,328483	0,180300155	485,328483	460,1244347	132,6832826	0,092852971	FALSE	32,2%	430,0756689	115,6079539	0,0809035	FALSE	30,1%
1472	3	1428,961094	Empty	552,9476899	441,2366028	91,71108702	0,064180255	FALSE	492,59255	0,180300155	492,59255	590,1247411	132,6832826	0,092852971	FALSE	41,3%	541,0629383	115,6079539	0,0809035	FALSE	37,9%
1473	1	1516,557203	Empty	716,8305269	530,8729901	75,43965748	0,049744024	FALSE	543,4214131	0,071081606	543,4214131	456,0930122	150,2196354	0,099053062	FALSE	30,1%	431,0215209	175,2911267	0,115584909	FALSE	28,4%
1473	2	1516,557203	Empty	694,4745787	493,8350896	75,43965748	0,049744024	FALSE	491,7015602	0,071081606	491,7015602	441,8687411	150,2196354	0,099053062	FALSE	29,1%	526,8040811	175,2911267	0,115584909	FALSE	34,7%
1473	3	1516,557203	Empty	700,7699769	491,8491235	75,43965748	0,049744024	FALSE	481,4342299	0,071081606	481,4342299	618,5954499	150,2196354	0,099053062	FALSE	40,8%	558,7316012	175,2911267	0,115584909	FALSE	36,8%
1474	1	949,4524901	Non-Empty	699,6274124																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1489	1	1146,398666	Non-Empty	672,4857233	378,8712932	0	0	TRUE	383,5420839	0	377,6779432	329,3045555	0	0	TRUE	28,7%	444,2294833	0	0	TRUE	38,8%
1489	2	1146,398666	Non-Empty	739,9291173	423,3717247	0	0	TRUE	405,099553	0	415,5551522	362,3304118	0	0	TRUE	31,6%	372,5795666	0	0	TRUE	32,5%
1489	3	1146,398666	Non-Empty	628,8394883	344,1556486	0	0	TRUE	357,7570296	0	353,1655711	454,7636991	0	0	TRUE	39,7%	329,5896166	0	0	TRUE	28,8%
1490	1	1664,13561	Empty	719,6898469	533,8899335	145,754865	0,08758593	FALSE	550,3940012	0,076732016	550,3940012	481,356777	198,2880215	0,119153764	FALSE	28,9%	566,1492283	191,1678498	0,114875163	FALSE	34,0%
1490	2	1664,13561	Empty	770,6640139	572,479101	145,754865	0,08758593	FALSE	576,5981692	0,076732016	576,5981692	515,4502978	198,2880215	0,119153764	FALSE	31,0%	514,6811166	191,1678498	0,114875163	FALSE	30,9%
1490	3	1664,13561	Empty	780,6936931	557,766576	145,754865	0,08758593	FALSE	537,14344	0,076732016	537,14344	667,3285357	198,2880215	0,119153764	FALSE	40,1%	583,3052655	191,1678498	0,114875163	FALSE	35,1%
1491	1	1143,278029	Non-Empty	772,2493171	372,8486613	0	0	TRUE	368,9841362	0	378,9436555	339,0635967	0	0	TRUE	29,7%	308,2996933	0	0	TRUE	27,0%
1491	2	1143,278029	Non-Empty	837,5166437	432,7606775	0	0	TRUE	423,540842	0	410,97041	367,7198532	0	0	TRUE	32,2%	372,5287961	0	0	TRUE	32,6%
1491	3	1143,278029	Non-Empty	720,1204607	337,6686905	0	0	TRUE	350,7530511	0	353,3639638	436,4945794	0	0	TRUE	38,2%	462,4495399	0	0	TRUE	40,4%
1492	1	1010,435133	Non-Empty	685,1065257	377,6391319	0	0	TRUE	341,3003748	0	379,5633931	334,9091243	0	0	TRUE	33,1%	332,8492203	0	0	TRUE	32,9%
1492	2	1010,435133	Non-Empty	552,457222	315,8663946	0	0	TRUE	350,4042038	0	306,072895	270,0645191	0	0	TRUE	26,7%	380,399109	0	0	TRUE	37,6%
1492	3	1010,435133	Non-Empty	586,2572953	316,9296066	0	0	TRUE	318,7305546	0	324,798845	405,4614897	0	0	TRUE	40,1%	297,1868039	0	0	TRUE	29,4%
1493	1	1315,681538	Empty	595,0680182	452,7785628	132,1462205	0,100439367	FALSE	475,5903665	0,123061404	475,5903665	393,293234	191,6315494	0,145651925	FALSE	29,9%	434,3026437	154,1387802	0,117155083	FALSE	33,0%
1493	2	1315,681538	Empty	614,1145959	432,126154	132,1462205	0,100439367	FALSE	415,2389713	0,123061404	415,2389713	405,8815262	191,6315494	0,145651925	FALSE	30,8%	370,4346079	154,1387802	0,117155083	FALSE	28,2%
1493	3	1315,681538	Empty	601,8027015	430,7768214	132,1462205	0,100439367	FALSE	424,8522005	0,123061404	424,8522005	516,506778	191,6315494	0,145651925	FALSE	39,3%	510,9442867	154,1387802	0,117155083	FALSE	38,8%
1494	1	1873,784284	Empty	806,0835107	602,0517664	169,5418681	0,090480996	FALSE	625,4772168	0,108326694	625,4772168	533,1931891	238,4004455	0,127229397	FALSE	28,5%	675,4338698	225,2332812	0,120202354	FALSE	36,0%
1494	2	1873,784284	Empty	879,9519904	659,9463858	169,5418681	0,090480996	FALSE	667,3979758	0,108326694	667,3979758	582,0543427	238,4004455	0,127229397	FALSE	31,1%	588,2811124	225,2332812	0,120202354	FALSE	31,4%
1494	3	1873,784284	Empty	870,1203669	611,7861319	169,5418681	0,090480996	FALSE	580,9090915	0,108326694	580,9090915	758,5367523	238,4004455	0,127229397	FALSE	40,5%	610,0693018	225,2332812	0,120202354	FALSE	32,6%
1495	1	1721,823567	Empty	780,3146444	627,4325507	98,04871045	0,056944691	FALSE	637,8857943	0,074315169	637,8857943	511,9643707	213,5168905	0,124006254	FALSE	29,7%	598,8951537	208,6917781	0,121203927	FALSE	34,8%
1495	2	1721,823567	Empty	742,1741678	565,1955167	98,04871045	0,056944691	FALSE	551,5522029	0,074315169	551,5522029	486,9404073	213,5168905	0,124006254	FALSE	28,3%	430,4558917	208,6917781	0,121203927	FALSE	25,0%
1495	3	1721,823567	Empty	689,3407662	529,1954993	98,04871045	0,056944691	FALSE	532,3855696	0,074315169	532,3855696	722,9187888	213,5168905	0,124006254	FALSE	42,0%	692,4725214	208,6917781	0,121203927	FALSE	40,2%
1496	1	1434,565003	Empty	714,8674222	474,2117724	156,1066395	0,108818101	FALSE	459,1455537	0,097478627	459,1455537	465,3446336	138,3942989	0,096471264	FALSE	32,4%	430,369501	162,4677366	0,113252265	FALSE	30,0%
1496	2	1434,565003	Empty	701,8798862	468,9417183	156,1066395	0,108818101	FALSE	461,5929815	0,097478627	461,5929815	456,8903665	138,3942989	0,096471264	FALSE	31,8%	494,1279455	162,4677366	0,113252265	FALSE	34,4%
1496	3	1434,565003	Empty	694,5859879	491,4115124	156,1066395	0,108818101	FALSE	513,826468	0,097478627	513,826468	512,3300031	138,3942989	0,096471264	FALSE	35,7%	510,0675567	162,4677366	0,113252265	FALSE	35,6%
1497	1	1221,894719	Non-Empty	702,2484522	389,0324735	0	0	TRUE	391,3297244	0	395,7111509	361,5229414	0	0	TRUE	29,6%	334,4132915	0	0	TRUE	27,4%
1497	2	1221,894719	Non-Empty	727,8972688	394,5012425	0	0	TRUE	376,6184459	0	401,1640453	374,7271508	0	0	TRUE	30,7%	437,3096889	0	0	TRUE	35,8%
1497	3	1221,894719	Non-Empty	738,2886869	438,361003	0	0	TRUE	453,9465488	0	416,0195228	485,6446268	0	0	TRUE	39,7%	450,1717386	0	0	TRUE	36,8%
1498	1	1656,661226	Empty	750,1637925	569,7890239	129,5345305	0,078190114	FALSE	564,6667602	0,069785866	564,6667602	501,2344556	175,2774033	0,105801597	FALSE	30,3%	619,1562158	147,0666641	0,088772926	FALSE	37,4%
1498	2	1656,661226	Empty	738,4072362	550,5875634	129,5345305	0,078190114	FALSE	538,0203954	0,069785866	538,0203954	493,3791164	175,2774033	0,105801597	FALSE	29,8%	518,7525051	147,0666641	0,088772926	FALSE	31,3%
1498	3	1656,661226	Empty	693,8477119	536,2846387	129,5345305	0,078190114	FALSE	553,9740704	0,069785866	553,9740704	662,047654	175,2774033	0,105801597	FALSE	40,0%	518,7525051	147,0666641	0,088772926	FALSE	31,3%
1499	1	1359,01001	Non-Empty	861,8517444	479,5538169	0	0	TRUE	454,3224448	0	481,9605317	441,7539024	0	0	TRUE	32,5%	405,0895221	0	0	TRUE	29,8%
1499	2	1359,01001	Non-Empty	759,0410649	397,648866	0	0	TRUE	393,3232224	0	424,4672446	389,0568821	0	0	TRUE	28,6%	470,4265418	0	0	TRUE	34,6%
1499	3	1359,01001	Non-Empty	809,3168664	481,8073267	0	0	TRUE	511,3643424	0	452,5822333	528,199225	0	0	TRUE	38,9%	483,4939457	0	0	TRUE	35,6%
1500	1	1319,769807	Empty	656,2423285	483,5227399	168,7522421	0,127864906	FALSE	470,3902448	0,034746531	470,3902448	420,6918399	226,8540676	0,171889118	FALSE	31,9%	395,9309422	232,5501056	0,176205051	FALSE	30,0%
1500	2	1319,769807	Empty	622,4141096	465,298072	168,7522421	0,127864906	FALSE	467,7691281	0,034746531	467,7691281	399,0058635	226,8540676	0,171889118	FALSE	30,2%	395,9309422	232,5501056	0,176205051	FALSE	30,0%
1500	3	1319,769807	Empty	519,8746498	370,9489953	168,7522421	0,127864906	FALSE	381,6104344	0,034746531	381,6104344	500,0721039	226,8540676	0,171889118	FALSE	37,9%	527,9079229	232,5501056	0,176205051	FALSE	40,0%
1501	1	796,5363368	Non-Empty	564,4293542	285,1139013	0	0	TRUE	286,3413231	0	274,4464086	247,9318659	0	0	TRUE	31,1%	277,8615128	0	0	TRUE	34,9%
1501	2	796,5363368	Non-Empty	552,7271216	264,8523164	0	0	TRUE	257,5203817	0	268,7563528	242,7915321	0	0	TRUE	30,5%	231,5512607	0	0	TRUE	29,1%
1501	3	796,5363368	Non-Empty	521,0084809	246,5701191	0	0	TRUE	252,674632	0	253,3335755	305,8129389	0	0	TRUE	38,4%	287,1235633	0	0	TRUE	36,0%
1502	1	1070,061545	Non-Empty	593,0631377	382,7615828	0	0	TRUE	400,4406818	0	361,8088874	316,9563091	0,535053656	0,000500021	FALSE	29,6%	406,6233872	0	0	TRUE	38,0%
1502	2	1070,061545	Non-Empty	592,162526	348,8896273	0	0	TRUE	333,5973826	0	361,259453	316,4749867	0,535053656	0,000500021	FALSE	29,6%	342,4196944	0	0	TRUE	32,0%
1502	3	1070,061545	Non-Empty	568,7778435	338,4103351	0	0	TRUE	336,0234807	0	346,9932047	436,6302493	0,535053656	0,000500021	FALSE	40,8%	321,0184635	0	0	TRUE	30,0%
1503	1	1261,98608	Non-Empty	875,4314433	392,7972521	0	0	TRUE	404,7261452	0	402,3717889	362,313897	0	0	TRUE	28,7%	504,794432	0	0	TRUE	40,0%
1503	2	1261,98608	Non-Empty	981,7425232	471,1428542	0	0	TRUE	455,1062693	0	451,2352148	406,3127526	0	0	TRUE	32,2%	336,5296213	0	0	TRUE	26,7%
1503	3	1261,98608	Non-Empty	888,5013662	398,0459737	0	0	TRUE	402,1536655	0	408,3790763	493,3594303	0	0	TRUE	39,1%	420,6620267	0	0	TRUE	33,3%
1504	1	1395,830863	Non-Empty	786,8165617	477,6595707	0	0	TRUE	460,6257949	0	483,3476784	430,9389898	0	0	TRUE	30,9%	523,4365738	0	0	TRUE	37,5%
1504	2	1395,830863	Non-Empty	727,2228136	435,18208	0	0	TRUE	435,2645615	0	446,7387644	398,2995358	0	0	TRUE	28,5%	418,749259	0	0	TRUE	30,0%
1504	3	1395,830863	Non-Empty	758,1611336	482,9892127	0	0	TRUE	499,940507	0	465,7444207	566,5923287	0	0	TRUE	40,6%	453,6450306	0	0	TRUE	32,5%
1505	1	1221,943459	Non-Empty	823,2412296	413,4523956	0	0	TRUE	396,4089633	0	419,1162231	375,0037348	0	0	TRUE	30,7%	315,783141	0	0	TRUE	25,8%
1505	2	1221,943459	Non-Empty	8																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1520	1	772,1615508	Non-Empty	480,6989294	289,9232815	0	0	TRUE	290,2736691	0	275,8575184	240,8705147	0	0	TRUE	31,2%	249,587572	0	0	TRUE	32,3%
1520	2	772,1615508	Non-Empty	430,8320087	235,0012136	0	0	TRUE	230,296374	0	247,2405566	215,8830416	0	0	TRUE	28,0%	272,9864068	0	0	TRUE	35,4%
1520	3	772,1615508	Non-Empty	434,0086391	247,2370557	0	0	TRUE	251,5915077	0	249,0634758	315,4079945	0	0	TRUE	40,8%	249,587572	0	0	TRUE	32,3%
1521	1	1110,887196	Non-Empty	742,741055	489,2235657	0	0	TRUE	482,3094657	0	445,8327677	378,2901578	0	0	TRUE	34,1%	386,3955464	0	0	TRUE	34,8%
1521	2	1110,887196	Non-Empty	530,0557457	291,6766792	0	0	TRUE	299,9010021	0	318,1677094	269,9660539	0	0	TRUE	24,3%	410,5452681	0	0	TRUE	37,0%
1521	3	1110,887196	Non-Empty	577,9005634	329,9869511	0	0	TRUE	328,6767283	0	346,886719	462,6309844	0	0	TRUE	41,6%	313,9463815	0	0	TRUE	28,3%
1522	1	1228,372558	Non-Empty	762,1219571	419,0098277	0	0	TRUE	426,4366408	0	410,6026563	372,0663002	0	0	TRUE	30,3%	404,2745128	0	0	TRUE	32,9%
1522	2	1228,372558	Non-Empty	711,8488415	391,0918405	0	0	TRUE	420,8737821	0	383,5173917	347,5230733	0	0	TRUE	28,3%	388,725493	0	0	TRUE	31,6%
1522	3	1228,372558	Non-Empty	806,018587	418,2708898	0	0	TRUE	381,0621351	0	434,25251	508,7831845	0	0	TRUE	41,4%	435,3725522	0	0	TRUE	35,4%
1523	1	1099,81185	Non-Empty	625,1518387	349,1217314	0	0	TRUE	329,4529215	0	367,89072	349,7279128	0	0	TRUE	31,8%	346,0082226	0	0	TRUE	31,5%
1523	2	1099,81185	Non-Empty	574,2480609	307,3412779	0	0	TRUE	296,7957924	0	337,9347537	321,250876	0	0	TRUE	29,2%	296,5784765	0	0	TRUE	27,0%
1523	3	1099,81185	Non-Empty	669,495843	443,348841	0	0	TRUE	473,5631365	0	393,9863766	428,8330615	0	0	TRUE	39,0%	457,2251512	0	0	TRUE	41,6%
1524	1	1850,580432	Empty	831,5383167	598,881503	230,6035739	0,124611484	FALSE	591,0779739	0,065422074	591,0779739	577,1528148	227,2247974	0,122785691	FALSE	31,2%	472,488621	331,0554396	0,178892759	FALSE	25,5%
1524	2	1850,580432	Empty	850,8060326	615,6187899	230,6035739	0,124611484	FALSE	605,2848317	0,065422074	605,2848317	590,526121	227,2247974	0,122785691	FALSE	31,9%	669,3588797	331,0554396	0,178892759	FALSE	36,2%
1524	3	1850,580432	Empty	842,7959367	636,0801393	230,6035739	0,124611484	FALSE	654,2176265	0,065422074	654,2176265	682,9014964	227,2247974	0,122785691	FALSE	36,9%	708,7329315	331,0554396	0,178892759	FALSE	38,3%
1525	1	1446,200006	Non-Empty	898,8923677	462,863827	0	0	TRUE	459,2663424	0	473,8404892	419,0765403	0	0	TRUE	29,0%	462,7840021	0	0	TRUE	32,0%
1525	2	1446,200006	Non-Empty	971,7985202	548,4366062	0	0	TRUE	557,5057483	0	512,272106	453,0664364	0	0	TRUE	31,3%	448,322002	0	0	TRUE	31,0%
1525	3	1446,200006	Non-Empty	872,8022866	434,8995732	0	0	TRUE	429,4279158	0	460,0874113	574,0570298	0	0	TRUE	39,7%	535,0940024	0	0	TRUE	37,0%
1526	1	1334,746542	Non-Empty	868,4949853	516,676774	0	0	TRUE	502,1427156	0	494,000329	436,7329116	0	0	TRUE	32,7%	337,5221141	0	0	TRUE	25,3%
1526	2	1334,746542	Non-Empty	690,1807121	379,4115849	0	0	TRUE	405,9266105	0	392,5750921	346,7793965	0	0	TRUE	26,0%	598,3346567	0	0	TRUE	44,8%
1526	3	1334,746542	Non-Empty	787,9233031	438,6581831	0	0	TRUE	426,6772158	0	448,1711208	551,5942338	0	0	TRUE	41,3%	398,8897712	0	0	TRUE	29,9%
1527	1	1532,843434	Empty	704,3677942	535,681526	167,2772502	0,109128725	FALSE	529,0474891	0,016869095	529,0474891	457,680497	234,5562746	0,153020373	FALSE	29,9%	545,0109988	196,1790395	0,127983743	FALSE	35,6%
1527	2	1532,843434	Empty	727,2835451	558,9820883	167,2772502	0,109128725	FALSE	552,7328629	0,016869095	552,7328629	472,5705762	234,5562746	0,153020373	FALSE	30,8%	510,9478113	196,1790395	0,127983743	FALSE	33,3%
1527	3	1532,843434	Empty	587,348789	438,1798198	167,2772502	0,109128725	FALSE	451,063082	0,016869095	451,063082	602,5923608	234,5562746	0,153020373	FALSE	39,3%	476,8846239	196,1790395	0,127983743	FALSE	31,1%
1528	1	1216,223567	Empty	530,9334754	423,3058653	107,6276101	0,088493278	FALSE	467,0190577	0,249237061	467,0190577	340,0572846	190,8761908	0,156941697	FALSE	28,0%	427,6830124	103,250463	0,084894312	FALSE	35,2%
1528	2	1216,223567	Empty	591,799461	406,759111	107,6276101	0,088493278	FALSE	373,0595635	0,249237061	373,0595635	379,0413057	190,8761908	0,156941697	FALSE	31,2%	347,4924476	103,250463	0,084894312	FALSE	28,6%
1528	3	1216,223567	Empty	547,5130378	386,1585903	107,6276101	0,088493278	FALSE	376,1449455	0,249237061	376,1449455	497,1249764	190,8761908	0,156941697	FALSE	40,9%	441,0481066	103,250463	0,084894312	FALSE	36,3%
1529	1	1850,703553	Empty	829,3921001	584,1663018	124,1546989	0,067085136	FALSE	571,659906	0,074072066	571,659906	560,2719215	152,1107456	0,082190768	FALSE	30,3%	624,0744538	182,5448566	0,098635385	FALSE	33,7%
1529	2	1850,703553	Empty	841,4678258	608,7962064	124,1546989	0,067085136	FALSE	608,8439894	0,074072066	608,8439894	568,4293299	152,1107456	0,082190768	FALSE	30,7%	537,9952188	182,5448566	0,098635385	FALSE	29,1%
1529	3	1850,703553	Empty	878,0018341	657,7410445	124,1546989	0,067085136	FALSE	670,1996574	0,074072066	670,1996574	722,0023014	152,1107456	0,082190768	FALSE	39,0%	688,6338801	182,5448566	0,098635385	FALSE	37,2%
1530	1	806,8671938	Non-Empty	493,3301941	253,6793676	0	0	TRUE	278,2940553	0	248,8347646	224,0972607	0	0	TRUE	27,8%	311,9886483	0	0	TRUE	38,7%
1530	2	806,8671938	Non-Empty	545,9115997	273,951765	0	0	TRUE	266,2574444	0	275,3567206	247,9825795	0	0	TRUE	30,7%	247,4392728	0	0	TRUE	30,7%
1530	3	806,8671938	Non-Empty	560,4219425	279,2360612	0	0	TRUE	262,3156941	0	282,6757086	334,7873537	0	0	TRUE	41,5%	247,4392728	0	0	TRUE	30,7%
1531	1	1083,235369	Empty	428,243677	348,0633264	80,18035061	0,074019325	FALSE	363,6473894	0,087873715	363,6473894	299,5052266	128,7384504	0,11884624	FALSE	27,6%	444,6966251	146,0402436	0,13481857	FALSE	41,1%
1531	2	1083,235369	Empty	466,4518943	362,8954491	80,18035061	0,074019325	FALSE	355,1034176	0,087873715	355,1034176	326,2273042	128,7384504	0,11884624	FALSE	30,1%	273,6594616	146,0402436	0,13481857	FALSE	25,3%
1531	3	1083,235369	Empty	475,8330384	372,2765932	80,18035061	0,074019325	FALSE	364,4845617	0,087873715	364,4845617	457,502838	128,7384504	0,11884624	FALSE	42,2%	364,8792821	146,0402436	0,13481857	FALSE	33,7%
1532	1	1156,070635	Empty	546,0169698	397,654201	109,8280256	0,095001138	FALSE	391,4364266	0,087229148	391,4364266	363,3697811	122,2829894	0,10577467	FALSE	31,4%	429,057143	158,6406072	0,137223974	FALSE	37,1%
1532	2	1156,070635	Empty	527,4316432	375,8927415	109,8280256	0,095001138	FALSE	366,4988341	0,087229148	366,4988341	351,0013999	122,2829894	0,10577467	FALSE	30,4%	393,3023811	158,6406072	0,137223974	FALSE	34,0%
1532	3	1156,070635	Empty	509,0570055	382,5236928	109,8280256	0,095001138	FALSE	398,1353746	0,087229148	398,1353746	441,6994543	122,2829894	0,10577467	FALSE	38,2%	333,7111112	158,6406072	0,137223974	FALSE	28,9%
1533	1	1669,698126	Empty	783,8540693	567,8569067	144,590467	0,086596771	FALSE	573,2899861	0,093583095	573,2899861	525,3487536	178,9897295	0,107198856	FALSE	31,5%	497,3568887	209,4265501	0,125427792	FALSE	29,8%
1533	2	1669,698126	Empty	762,2907932	521,8855019	144,590467	0,086596771	FALSE	502,9104525	0,093583095	502,9104525	510,8967776	178,9897295	0,107198856	FALSE	30,6%	657,2216029	209,4265501	0,125427792	FALSE	39,4%
1533	3	1669,698126	Empty	787,8439898	579,9557178	144,590467	0,086596771	FALSE	593,4976878	0,093583095	593,4976878	633,4525952	178,9897295	0,107198856	FALSE	37,9%	515,1196347	209,4265501	0,125427792	FALSE	30,9%
1534	1	1246,104982	Empty	627,5146389	418,4699771	59,75624495	0,047954423	FALSE	402,2906432	0,101344652	402,2906432	371,2777786	143,4296331	0,115102367	FALSE	29,8%	498,4419927	144,2301268	0,115744764	FALSE	40,0%
1534	2	1246,104982	Empty	644,2685026	464,8638236	59,75624495	0,047954423	FALSE	478,3244726	0,101344652	478,3244726	381,1904355	143,4296331	0,115102367	FALSE	30,6%	380,3899418	144,2301268	0,115744764	FALSE	30,5%
1534	3	1246,104982	Empty	552,9178239	362,771181	59,75624495	0,047954423	FALSE	365,489866	0,101344652	365,489866	493,6367676	143,4296331	0,115102367	FALSE	39,6%	367,2730473	144,2301268	0,115744764	FALSE	29,5%
1535	1	1473,139081	Empty	730,8113498	541,1391628	144,7597685	0,098266193	FALSE	543,118681	0,042337755	543,118681	493,6091494	186,234586	0,126420233	FALSE	33,5%	513,1158597	166,7278757	0,113178639	FALSE	34,8%
1535	2	1473,139081	Empty	609,714182	426,097191	144,7597685	0,098266193	FALSE	434,1319051	0,042337755	434,1319051	411,8169468	186,234586	0,126420233	FALSE	28,0%	463,4594861	166,7278757	0,113178639	FALSE	31,5%
1535	3	1473,139081	Empty	707,5686647	505,9027272	144,7597685	0,098266193	FALSE	495,8884949	0,042337755	495,8884949	567,7129849	186,234586	0,126420233	FALSE						

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1551	1	884,2359729	Non-Empty	539,1590148	294,6960681	0	0	TRUE	290,3681944	0	297,1030524	264,727002	0	0	TRUE	29,9%	242,0014242	0	0	TRUE	27,4%
1551	2	884,2359729	Non-Empty	550,9012621	308,7508928	0	0	TRUE	306,7355964	0	303,5736063	270,4924438	0	0	TRUE	30,6%	353,6943892	0	0	TRUE	40,0%
1551	3	884,2359729	Non-Empty	514,5809149	280,7890121	0	0	TRUE	287,1321822	0	283,5593143	349,0165272	0	0	TRUE	39,5%	288,5401596	0	0	TRUE	32,6%
1552	1	1496,890342	Empty	662,8803585	524,4616569	98,62676074	0,065887766	FALSE	530,2176763	0,067097806	530,2176763	456,8053181	166,2830995	0,111085692	FALSE	30,5%	441,1887322	181,8996854	0,121518377	FALSE	29,5%
1552	2	1496,890342	Empty	618,6294942	463,8844288	98,62676074	0,065887766	FALSE	453,3140846	0,067097806	453,3140846	426,311082	166,2830995	0,111085692	FALSE	28,5%	630,2696175	181,8996854	0,121518377	FALSE	42,1%
1552	3	1496,890342	Empty	647,904652	508,5442558	98,62676074	0,065887766	FALSE	513,3585807	0,067097806	513,3585807	613,7739414	166,2830995	0,111085692	FALSE	41,0%	425,4319918	181,8996854	0,121518377	FALSE	28,4%
1553	1	868,998189	Non-Empty	626,9704964	283,5364557	0	0	TRUE	264,6142509	0	295,6994637	273,640392	0	0	TRUE	31,5%	265,8112108	0	0	TRUE	30,6%
1553	2	868,998189	Non-Empty	613,2864028	307,0947348	0	0	TRUE	325,4149028	0	289,2456047	267,6679885	0	0	TRUE	30,8%	337,3757675	0	0	TRUE	38,8%
1553	3	868,998189	Non-Empty	602,2767977	278,3669985	0	0	TRUE	278,9690353	0	284,0531206	327,6898085	0	0	TRUE	37,7%	265,8112108	0	0	TRUE	30,6%
1554	1	1340,690203	Empty	574,1967397	427,1280543	121,6314974	0,090723045	FALSE	441,7037347	0,059091955	441,7037347	392,9250706	155,8344812	0,116234519	FALSE	29,3%	441,4467741	150,8309215	0,112502442	FALSE	32,9%
1554	2	1340,690203	Empty	614,1860197	444,3569455	121,6314974	0,090723045	FALSE	436,1722369	0,059091955	436,1722369	420,289891	155,8344812	0,116234519	FALSE	31,3%	392,3971325	150,8309215	0,112502442	FALSE	29,3%
1554	3	1340,690203	Empty	637,2405404	469,2052029	121,6314974	0,090723045	FALSE	462,8142311	0,059091955	462,8142311	527,475241	155,8344812	0,116234519	FALSE	39,3%	506,8462961	150,8309215	0,112502442	FALSE	37,8%
1555	1	1419,410307	Empty	669,3102695	506,76956	137,6065715	0,096946296	FALSE	509,9184562	0,04135066	509,9184562	459,4512697	184,9248618	0,130282879	FALSE	32,4%	450,0569266	194,3192048	0,136901362	FALSE	31,7%
1555	2	1419,410307	Empty	594,5746496	428,6398098	137,6065715	0,096946296	FALSE	428,3945757	0,04135066	428,3945757	408,1486422	184,9248618	0,130282879	FALSE	28,8%	467,3668084	194,3192048	0,136901362	FALSE	32,9%
1555	3	1419,410307	Empty	652,5942048	484,009371	137,6065715	0,096946296	FALSE	481,0972751	0,04135066	481,0972751	551,8103951	184,9248618	0,130282879	FALSE	38,9%	501,986572	194,3192048	0,136901362	FALSE	35,4%
1556	1	1180,660037	Non-Empty	887,7753568	413,1533315	0	0	TRUE	418,3630054	0	400,0377199	359,3462551	0	0	TRUE	30,4%	475,5436261	0	0	TRUE	40,3%
1556	2	1180,660037	Non-Empty	894,3370511	409,9916566	0	0	TRUE	405,4779611	0	402,9944648	362,0022426	0	0	TRUE	30,7%	344,3591776	0	0	TRUE	29,2%
1556	3	1180,660037	Non-Empty	838,0427267	357,5150492	0	0	TRUE	356,8190709	0	377,6278526	459,3115396	0	0	TRUE	38,9%	360,7572336	0	0	TRUE	30,6%
1557	1	1177,043386	Non-Empty	674,6642234	430,994202	0	0	TRUE	408,5157004	0	431,4361184	366,0456618	0	0	TRUE	31,1%	375,1017383	0	0	TRUE	31,9%
1557	2	1177,043386	Non-Empty	564,938515	363,6291194	0	0	TRUE	383,5112436	0	361,268423	306,5129073	0	0	TRUE	26,0%	400,9708237	0	0	TRUE	34,1%
1557	3	1177,043386	Non-Empty	601,0152065	382,4200642	0	0	TRUE	385,0164416	0	384,3388442	504,4848165	0	0	TRUE	42,9%	400,9708237	0	0	TRUE	34,1%
1558	1	1622,800242	Empty	694,0053605	536,608345	164,2254765	0,101198824	FALSE	545,0913852	0,04105039	545,0913852	465,6624383	235,1713832	0,144917025	FALSE	28,7%	597,0680137	214,1093718	0,131938218	FALSE	36,8%
1558	2	1622,800242	Empty	756,3168926	584,6623025	164,2254765	0,101198824	FALSE	578,887768	0,04105039	578,887768	507,4721154	235,1713832	0,144917025	FALSE	31,3%	520,5208325	214,1093718	0,131938218	FALSE	32,1%
1558	3	1622,800242	Empty	670,1181561	501,5295949	164,2254765	0,101198824	FALSE	498,8210893	0,04105039	498,8210893	649,6656887	235,1713832	0,144917025	FALSE	40,0%	505,2113962	214,1093718	0,131938218	FALSE	31,1%
1559	1	788,531299	Non-Empty	579,1092018	284,3458796	0	0	TRUE	270,127661	0	280,1221227	265,7808428	0	0	TRUE	33,7%	211,5571778	0	0	TRUE	26,8%
1559	2	788,531299	Non-Empty	484,7122469	217,925159	0	0	TRUE	231,6831748	0	234,4611743	222,4575764	0	0	TRUE	28,2%	269,2545899	0	0	TRUE	34,1%
1559	3	788,531299	Non-Empty	566,3451613	286,2602604	0	0	TRUE	286,7204632	0	273,948002	300,2928798	0	0	TRUE	38,1%	307,7195313	0	0	TRUE	39,0%
1560	1	1084,54053	Non-Empty	634,1022386	351,9064442	0	0	TRUE	329,1886939	0	369,1459642	325,8858256	0	0	TRUE	30,0%	349,4630597	0	0	TRUE	32,2%
1560	2	1084,54053	Non-Empty	633,6903544	374,7833022	0	0	TRUE	375,3542941	0	368,9061836	325,6741448	0	0	TRUE	30,0%	361,51351	0	0	TRUE	33,3%
1560	3	1084,54053	Non-Empty	595,1820691	357,8507835	0	0	TRUE	379,997542	0	346,4883821	432,9805596	0	0	TRUE	39,9%	373,5639603	0	0	TRUE	34,4%
1561	1	1344,391556	Empty	569,5727111	418,6014233	71,56970552	0,053235759	FALSE	424,6423203	0,0190951	424,6423203	381,5214257	113,680572	0,084559124	FALSE	28,4%	409,1626473	81,00848149	0,060256613	FALSE	30,4%
1561	2	1344,391556	Empty	616,9472639	460,6707712	71,56970552	0,053235759	FALSE	461,4064632	0,0190951	461,4064632	413,2546997	113,680572	0,084559124	FALSE	30,7%	482,2274058	81,00848149	0,060256613	FALSE	35,9%
1561	3	1344,391556	Empty	628,908135	465,1193611	71,56970552	0,053235759	FALSE	458,342772	0,0190951	458,342772	549,6154302	113,680572	0,084559124	FALSE	40,9%	453,0015024	81,00848149	0,060256613	FALSE	33,7%
1562	1	1233,953962	Empty	532,8201342	354,993145	87,72628889	0,071093648	FALSE	347,0904264	0,093826137	347,0904264	349,1612049	137,8744703	0,111733885	FALSE	28,3%	365,6159888	149,2104461	0,120920594	FALSE	29,6%
1562	2	1233,953962	Empty	621,7230228	457,5681451	87,72628889	0,071093648	FALSE	463,337538	0,093826137	463,337538	407,4199637	137,8744703	0,111733885	FALSE	33,0%	396,0839879	149,2104461	0,120920594	FALSE	32,1%
1562	3	1233,953962	Empty	589,183617	421,3926721	87,72628889	0,071093648	FALSE	423,5259978	0,093826137	423,5259978	477,3727936	137,8744703	0,111733885	FALSE	38,7%	472,2539855	149,2104461	0,120920594	FALSE	38,3%
1563	1	1061,692558	Non-Empty	627,512964	382,5900349	0	0	TRUE	410,4370468	0	354,3750001	314,5144251	0	0	TRUE	29,6%	364,9568168	0	0	TRUE	34,4%
1563	2	1061,692558	Non-Empty	625,5072701	334,1606404	0	0	TRUE	315,5839519	0	353,2423258	313,5091555	0	0	TRUE	29,5%	342,8382218	0	0	TRUE	32,3%
1563	3	1061,692558	Non-Empty	626,9821471	344,9418826	0	0	TRUE	335,6715593	0	354,0752321	433,6689773	0	0	TRUE	40,8%	353,8975193	0	0	TRUE	33,3%
1564	1	852,5599548	Non-Empty	463,807328	246,1500557	0	0	TRUE	249,8005522	0	260,7503744	249,3348105	0	0	TRUE	29,2%	273,6612201	0	0	TRUE	32,1%
1564	2	852,5599548	Non-Empty	492,8676926	268,5569385	0	0	TRUE	265,5539231	0	277,0879795	264,9571607	0	0	TRUE	31,1%	294,7120831	0	0	TRUE	34,6%
1564	3	852,5599548	Non-Empty	559,8081501	337,8529606	0	0	TRUE	337,2055097	0	314,7216008	338,2679837	0	0	TRUE	39,7%	284,1866516	0	0	TRUE	33,3%
1565	1	1237,383512	Empty	575,9836148	405,3510287	83,03748208	0,067107313	FALSE	413,0551743	0,096100539	413,0551743	369,118507	126,7689535	0,102449202	FALSE	29,8%	412,4611708	87,32282828	0,070570545	FALSE	33,3%
1565	2	1237,383512	Empty	582,0638906	416,746517	83,03748208	0,067107313	FALSE	429,7658751	0,096100539	429,7658751	373,0150455	126,7689535	0,102449202	FALSE	30,1%	412,4611708	87,32282828	0,070570545	FALSE	33,3%
1565	3	1237,383512	Empty	614,346202	415,2859666	83,03748208	0,067107313	FALSE	394,562463	0,096100539	394,562463	495,2499598	126,7689535	0,102449202	FALSE	40,0%	412,4611708	87,32282828	0,070570545	FALSE	33,3%
1566	1	1264,137145	Empty	639,5472757	433,7104827	127,3429244	0,100735055	FALSE	432,1992425	0,068013481	432,1992425	417,1422974	140,4964423	0,11114019	FALSE	33,0%	322,75842	217,6233455	0,17215169	FALSE	25,5%
1566	2	1264,137145	Empty	570,2847377	385,1195862	127,3429244	0,100735055	FALSE	404,2799877	0,068013481	404,2799877	371,9660683	140,4964423	0,11114019	FALSE	29,4%	524,4824325	217,6233455	0,17215169	FALSE	41,5%
1566	3	1264,137145	Empty	667,2817902	445,307076	127,3429244	0,100735055	FALSE	427,6579147	0,068013481	427,6579147	475,0287792	140,4964423	0,11114019	FALSE	37,6%	416,8962925	217,6233455	0,17215169	FALSE	33,0%
1567	1	1075,93364	Non-Empty	580,4233828	337,8265318	0	0	TRUE	333,6778585	0	348,6320843	314,0									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1582	1	1677,33897	Empty	773,7844001	631,79711	124,0254198	0,073941774	FALSE	655,1582333	0,11691477	655,1582333	510,5687538	245,253776	0,146215989	FALSE	30,4%	494,3735913	261,4489385	0,15587126	FALSE	29,5%
1582	2	1677,33897	Empty	701,2478745	524,2188994	124,0254198	0,073941774	FALSE	512,5383378	0,11691477	512,5383378	462,7067351	245,253776	0,146215989	FALSE	27,6%	600,3107894	261,4489385	0,15587126	FALSE	35,8%
1582	3	1677,33897	Empty	698,3519361	521,322961	124,0254198	0,073941774	FALSE	509,6423994	0,11691477	509,6423994	704,0634816	245,253776	0,146215989	FALSE	42,0%	582,6545897	261,4489385	0,15587126	FALSE	34,7%
1583	1	1560,40884	Empty	718,5313323	566,6302689	119,9481608	0,076869701	FALSE	573,623351	0,065872513	573,623351	469,3488886	217,2295411	0,139213221	FALSE	30,1%	525,6113988	160,9670308	0,103156959	FALSE	33,7%
1583	2	1560,40884	Empty	698,2272489	525,3765808	119,9481608	0,076869701	FALSE	511,4200582	0,065872513	511,4200582	456,086142	217,2295411	0,139213221	FALSE	29,2%	574,8874675	160,9670308	0,103156959	FALSE	36,8%
1583	3	1560,40884	Empty	620,3326954	468,4019905	119,9481608	0,076869701	FALSE	475,3654311	0,065872513	475,3654311	634,9738097	217,2295411	0,139213221	FALSE	40,7%	459,909974	160,9670308	0,103156959	FALSE	29,5%
1584	1	1458,144057	Empty	654,0086235	482,4039089	138,8266653	0,095207785	FALSE	500,7690558	0,100423641	500,7690558	430,2793663	190,9512079	0,130954968	FALSE	29,5%	456,7680178	164,4625564	0,112788963	FALSE	31,3%
1584	2	1458,144057	Empty	683,8189679	496,0193389	138,8266653	0,095207785	FALSE	498,1895713	0,100423641	498,1895713	449,8919153	190,9512079	0,130954968	FALSE	30,9%	456,7680178	164,4625564	0,112788963	FALSE	31,3%
1584	3	1458,144057	Empty	690,2260497	479,7208091	138,8266653	0,095207785	FALSE	459,1854298	0,100423641	459,1854298	577,9727754	190,9512079	0,130954968	FALSE	39,6%	544,6080213	164,4625564	0,112788963	FALSE	37,3%
1585	1	956,9492955	Non-Empty	520,0181683	303,2074952	0	0	TRUE	302,9372708	0	309,747363	280,583328	0	0	TRUE	29,3%	332,8519289	0	0	TRUE	34,8%
1585	2	956,9492955	Non-Empty	529,5718857	312,7612125	0	0	TRUE	312,4909881	0	315,438008	285,7381745	0	0	TRUE	29,9%	270,4421922	0	0	TRUE	28,3%
1585	3	956,9492955	Non-Empty	556,9805878	340,9805878	0	0	TRUE	341,5210366	0	331,7639245	390,6277929	0	0	TRUE	40,8%	353,6551744	0	0	TRUE	37,0%
1586	1	726,2695441	Non-Empty	502,3298159	253,1408587	0	0	TRUE	228,3209372	0	260,706684	247,0518054	0	0	TRUE	34,0%	267,5729899	0	0	TRUE	36,8%
1586	2	726,2695441	Non-Empty	430,530934	203,3558365	0	0	TRUE	200,5497747	0	223,4434203	211,7402574	0	0	TRUE	29,2%	183,4786217	0	0	TRUE	25,3%
1586	3	726,2695441	Non-Empty	466,5159011	269,7728488	0	0	TRUE	297,3988322	0	242,1194398	267,4774813	0	0	TRUE	36,8%	275,2179325	0	0	TRUE	37,9%
1587	1	1153,896593	Empty	418,9993087	353,4989776	65,50033108	0,056764472	FALSE	391,5075807	0,212938662	391,5075807	273,9862222	145,0130865	0,125672515	FALSE	23,7%	414,506543	69,18174038	0,059954887	FALSE	35,9%
1587	2	1153,896593	Empty	570,2209224	439,0485127	65,50033108	0,056764472	FALSE	411,3850372	0,212938662	411,3850372	372,8709645	145,0130865	0,125672515	FALSE	32,3%	369,6950248	69,18174038	0,059954887	FALSE	32,0%
1587	3	1153,896593	Empty	475,203164	361,3491022	65,50033108	0,056764472	FALSE	351,0039746	0,212938662	351,0039746	507,0394058	145,0130865	0,125672515	FALSE	43,9%	369,6950248	69,18174038	0,059954887	FALSE	32,0%
1588	1	1206,614517	Empty	568,4462205	419,312463	113,1035751	0,093736296	FALSE	410,0528203	0,051006046	410,0528203	400,1037392	121,0300867	0,100305512	FALSE	33,2%	386,1166455	131,9952713	0,109393074	FALSE	32,0%
1588	2	1206,614517	Empty	487,6489492	351,9899984	113,1035751	0,093736296	FALSE	356,2051624	0,051006046	356,2051624	343,2341723	121,0300867	0,100305512	FALSE	28,4%	361,9843551	131,9952713	0,109393074	FALSE	30,0%
1588	3	1206,614517	Empty	570,141692	435,3120557	113,1035751	0,093736296	FALSE	440,3565343	0,051006046	440,3565343	463,2766056	121,0300867	0,100305512	FALSE	38,4%	458,5135165	131,9952713	0,109393074	FALSE	38,0%
1589	1	1332,069523	Non-Empty	824,4216561	429,1133605	0	0	TRUE	447,3723683	0	426,8497963	397,7863863	0	0	TRUE	29,9%	493,9134186	0	0	TRUE	37,1%
1589	2	1332,069523	Non-Empty	848,6033877	430,6991476	0	0	TRUE	426,3622107	0	439,3700487	409,454158	0	0	TRUE	30,7%	463,979272	0	0	TRUE	34,8%
1589	3	1332,069523	Non-Empty	899,746389	472,2570148	0	0	TRUE	458,3349439	0	465,8496778	524,8289786	0	0	TRUE	39,4%	374,1768323	0	0	TRUE	28,1%
1590	1	1012,792519	Non-Empty	780,770351	369,326896	0	0	TRUE	363,7209601	0	354,5516614	318,6927938	0	0	TRUE	31,5%	307,2516629	0	0	TRUE	30,3%
1590	2	1012,792519	Non-Empty	786,5824345	362,0381629	0	0	TRUE	343,3314106	0	357,1909571	321,0651548	0	0	TRUE	31,7%	398,2891927	0	0	TRUE	39,3%
1590	3	1012,792519	Non-Empty	662,9522906	281,4274596	0	0	TRUE	305,7401478	0	301,0499	373,0345699	0	0	TRUE	36,8%	307,2516629	0	0	TRUE	30,3%
1591	1	1193,72203	Non-Empty	753,3886974	413,3159131	0	0	TRUE	393,3049972	0	417,5372567	365,6392435	0	0	TRUE	30,6%	364,3993566	0	0	TRUE	30,5%
1591	2	1193,72203	Non-Empty	714,7517755	417,5786422	0	0	TRUE	440,4673774	0	396,1242007	346,8877346	0	0	TRUE	29,1%	477,4888122	0	0	TRUE	40,0%
1591	3	1193,72203	Non-Empty	685,7671629	362,8274751	0	0	TRUE	359,9496557	0	380,0605729	481,1950523	0	0	TRUE	40,3%	351,8338616	0	0	TRUE	29,5%
1592	1	948,4300577	Non-Empty	537,7764266	296,2444503	0	0	TRUE	305,5291248	0	300,9318207	271,5482962	0	0	TRUE	28,6%	322,2820585	0	0	TRUE	34,0%
1592	2	948,4300577	Non-Empty	600,187729	327,532709	0	0	TRUE	303,6943399	0	335,8562724	303,0626616	0	0	TRUE	32,0%	331,4901173	0	0	TRUE	35,0%
1592	3	948,4300577	Non-Empty	556,9158548	324,6528985	0	0	TRUE	341,206593	0	311,6419647	373,8190999	0	0	TRUE	39,4%	294,657882	0	0	TRUE	31,1%
1593	1	1415,251278	Non-Empty	791,1204215	447,1778616	0	0	TRUE	460,1845063	0	450,3578645	407,8789499	0	0	TRUE	28,8%	448,3964446	0	0	TRUE	31,7%
1593	2	1415,251278	Non-Empty	844,3705955	486,8488231	0	0	TRUE	486,2762552	0	480,6713718	435,3332091	0	0	TRUE	30,8%	420,3716669	0	0	TRUE	29,7%
1593	3	1415,251278	Non-Empty	850,6078749	481,2245937	0	0	TRUE	468,7905169	0	484,220421	572,0391194	0	0	TRUE	40,4%	546,4831669	0	0	TRUE	38,6%
1594	1	1307,534916	Non-Empty	664,7580844	443,12834	0	0	TRUE	458,7692722	0	430,433417	377,0901483	0	0	TRUE	28,8%	390,9125007	0	0	TRUE	29,9%
1594	2	1307,534916	Non-Empty	664,3659143	413,6344522	0	0	TRUE	400,1736667	0	430,1794853	376,8676862	0	0	TRUE	28,8%	498,750432	0	0	TRUE	38,1%
1594	3	1307,534916	Non-Empty	690,2229477	450,7721241	0	0	TRUE	448,5919772	0	446,9220139	553,5770817	0	0	TRUE	42,3%	417,8719835	0	0	TRUE	32,0%
1595	1	1645,145044	Empty	710,1955094	507,8472452	202,3482641	0,122997218	FALSE	520,0535294	0,030552892	520,0535294	489,4473828	220,7481266	0,134181559	FALSE	29,8%	528,0712487	201,198269	0,122298195	FALSE	32,1%
1595	2	1645,145044	Empty	781,3695844	566,2342901	202,3482641	0,122997218	FALSE	565,6535443	0,030552892	565,6535443	538,4986148	220,7481266	0,134181559	FALSE	32,7%	568,692114	201,198269	0,122298195	FALSE	34,6%
1595	3	1645,145044	Empty	797,2435953	571,0635087	202,3482641	0,122997218	FALSE	559,4379704	0,030552892	559,4379704	617,1990465	220,7481266	0,134181559	FALSE	37,5%	548,3816814	201,198269	0,122298195	FALSE	33,3%
1596	1	1078,358202	Non-Empty	595,7668697	332,6801604	0	0	TRUE	363,2755644	0	327,8802701	302,5532497	0	0	TRUE	28,1%	397,9655271	0	0	TRUE	36,9%
1596	2	1078,358202	Non-Empty	659,21282	359,8011035	0	0	TRUE	354,0715003	0	362,797746	334,7735348	0	0	TRUE	31,0%	410,8031247	0	0	TRUE	38,1%
1596	3	1078,358202	Non-Empty	704,4248527	385,8769385	0	0	TRUE	361,0113377	0	387,6801862	441,0314179	0	0	TRUE	40,9%	269,5895506	0	0	TRUE	25,0%
1597	1	701,8321829	Non-Empty	406,9033847	192,7809183	0	0	TRUE	203,0141394	0	207,7082314	198,3928412	0	0	TRUE	28,3%	278,9333035	0	0	TRUE	39,7%
1597	2	701,8321829	Non-Empty	465,5913534	242,6098713	0	0	TRUE	243,9840769	0	237,6661394	227,0071838	0	0	TRUE	32,3%	197,952667	0	0	TRUE	28,2%
1597	3	701,8321829	Non-Empty	502,4045078	266,4413933	0	0	TRUE	254,8339665	0	256,4578121	276,4321579	0	0	TRUE	39,4%	224,9462125	0	0	TRUE	32,1%
1598	1	691,5423857	Non-Empty	465,7133566	281,1816253	0	0	TRUE	267,7089609	0	267,3323563	213,7635296	0	0	TRUE	30,9%	201,335125	0	0	TRUE	29,1%
1598	2	691,5423857	Non-Empty	414,0777307	243,9831786	0	0	TRUE	244,9476934	0	237,6920779	190,0626554	0	0	TRUE	27,5%	297,6258369	0	0	TRUE	43,0%
1598	3	691,5423857	Non-Empty	324,928499	166,3775818	0	0	TRUE	178,8857												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1613	1	1178,266677	Empty	561,0760669	410,1213735	133,1273844	0,112985784	FALSE	408,4550886	0,049654833	408,4550886	373,1188418	169,3432008	0,143722303	FALSE	31,7%	489,8412028	191,3751078	0,162420878	FALSE	41,6%
1613	2	1178,266677	Empty	530,8309939	389,2215091	133,1273844	0,112985784	FALSE	396,9004328	0,049654833	396,9004328	353,0056927	169,3432008	0,143722303	FALSE	30,0%	330,9737857	191,3751078	0,162420878	FALSE	28,1%
1613	3	1178,266677	Empty	534,2248417	378,9237944	133,1273844	0,112985784	FALSE	372,9111556	0,049654833	372,9111556	452,1421426	169,3432008	0,143722303	FALSE	38,4%	357,4516885	191,3751078	0,162420878	FALSE	30,3%
1614	1	1006,338424	Non-Empty	533,427017	356,526273	0	0	TRUE	386,3543139	0	330,0337692	282,7446115	0	0	TRUE	28,1%	323,8790329	0	0	TRUE	32,2%
1614	2	1006,338424	Non-Empty	553,0482866	328,475671	0	0	TRUE	310,6318403	0	342,1735397	293,144925	0	0	TRUE	29,1%	277,6105997	0	0	TRUE	27,6%
1614	3	1006,338424	Non-Empty	540,0494751	321,3364798	0	0	TRUE	309,3522696	0	334,1311148	430,4488873	0	0	TRUE	42,8%	404,8487912	0	0	TRUE	40,2%
1615	1	1129,461681	Non-Empty	730,3884096	379,2438871	0	0	TRUE	380,2464046	0	377,393597	354,9926992	0	0	TRUE	31,4%	310,2916705	0	0	TRUE	27,5%
1615	2	1129,461681	Non-Empty	707,2692491	344,7242748	0	0	TRUE	334,3263404	0	365,4478665	343,7560297	0	0	TRUE	30,4%	446,8200055	0	0	TRUE	39,6%
1615	3	1129,461681	Non-Empty	748,2451418	405,4935187	0	0	TRUE	414,8889356	0	386,6202172	430,7129518	0	0	TRUE	38,1%	372,3500046	0	0	TRUE	33,0%
1616	1	1215,368587	Non-Empty	754,1078438	356,3964851	0	0	TRUE	353,7674895	0	381,7849703	359,177789	0	0	TRUE	29,6%	428,1412067	0	0	TRUE	35,2%
1616	2	1215,368587	Non-Empty	808,6535114	419,7689534	0	0	TRUE	425,9667583	0	409,4000074	385,1576173	0	0	TRUE	31,7%	345,2751667	0	0	TRUE	28,4%
1616	3	1215,368587	Non-Empty	837,8543204	439,2031482	0	0	TRUE	435,6343389	0	424,1836091	471,0331803	0	0	TRUE	38,8%	441,9522133	0	0	TRUE	36,4%
1617	1	1941,646768	Empty	867,6841421	667,0972762	179,2351144	0,092310876	FALSE	664,8316903	0,01006917	664,8316903	586,7073389	251,23714	0,129393845	FALSE	30,2%	682,7768853	220,7986692	0,113717218	FALSE	35,2%
1617	2	1941,646768	Empty	859,0709593	656,8929395	179,2351144	0,092310876	FALSE	653,0361998	0,01006917	653,0361998	580,88331	251,23714	0,129393845	FALSE	29,9%	682,7768853	220,7986692	0,113717218	FALSE	35,2%
1617	3	1941,646768	Empty	809,8555061	617,6565518	179,2351144	0,092310876	FALSE	623,7788775	0,01006917	623,7788775	774,0561186	251,23714	0,129393845	FALSE	39,9%	576,092997	220,7986692	0,113717218	FALSE	29,7%
1618	1	1192,636476	Non-Empty	638,2266195	431,5129662	0	0	TRUE	451,2527596	0	406,69851	341,7046557	0	0	TRUE	28,7%	474,1807676	0	0	TRUE	39,8%
1618	2	1192,636476	Non-Empty	641,7391142	392,3256667	0	0	TRUE	369,3656658	0	408,8476376	343,585235	0	0	TRUE	28,8%	359,2278542	0	0	TRUE	30,1%
1618	3	1192,636476	Non-Empty	592,0310821	368,797843	0	0	TRUE	372,0180506	0	377,1789874	507,3465853	0	0	TRUE	42,5%	359,2278542	0	0	TRUE	30,1%
1619	1	1021,043925	Non-Empty	745,8296789	341,4738952	0	0	TRUE	336,456206	0	343,1748027	325,3905307	0	0	TRUE	31,9%	415,5411324	0	0	TRUE	40,7%
1619	2	1021,043925	Non-Empty	734,1572896	339,997936	0	0	TRUE	345,1766768	0	337,8040458	320,2981013	0	0	TRUE	31,4%	261,1972832	0	0	TRUE	25,6%
1619	3	1021,043925	Non-Empty	739,0712404	339,5720942	0	0	TRUE	339,4110426	0	340,0650769	375,3552934	0	0	TRUE	36,8%	344,3055097	0	0	TRUE	33,7%
1620	1	596,6830657	Non-Empty	408,9914828	204,5196002	0	0	TRUE	206,0542839	0	200,9037099	185,3692397	0	0	TRUE	31,1%	201,2070803	0	0	TRUE	33,7%
1620	2	596,6830657	Non-Empty	394,2380278	189,1744829	0	0	TRUE	190,1175044	0	193,6565569	178,6824581	0	0	TRUE	29,9%	215,0834307	0	0	TRUE	36,0%
1620	3	596,6830657	Non-Empty	411,4732542	202,9889826	0	0	TRUE	200,5112774	0	202,122799	232,6313679	0	0	TRUE	39,0%	180,3925548	0	0	TRUE	30,2%
1621	1	1120,335631	Non-Empty	821,673989	386,3011754	0	0	TRUE	375,1225051	0	384,6979392	355,1657238	0	0	TRUE	31,7%	420,1258615	0	0	TRUE	37,5%
1621	2	1120,335631	Non-Empty	723,9445506	324,6682829	0	0	TRUE	349,5861586	0	338,9421844	312,9225139	0	0	TRUE	27,9%	350,1048846	0	0	TRUE	31,3%
1621	3	1120,335631	Non-Empty	847,2995211	409,3661723	0	0	TRUE	395,6269669	0	396,695507	452,2473929	0	0	TRUE	40,4%	350,1048846	0	0	TRUE	31,3%
1622	1	1429,336179	Empty	652,3648774	507,2714681	56,04592934	0,03921116	FALSE	525,3665067	0,136204991	525,3665067	418,5495745	144,7678229	0,101283257	FALSE	29,3%	476,4453929	86,87200461	0,060777867	FALSE	33,3%
1622	2	1429,336179	Empty	651,8574134	462,4202824	56,04592934	0,03921116	FALSE	436,1715993	0,136204991	436,1715993	418,2239916	144,7678229	0,101283257	FALSE	29,3%	491,3343114	86,87200461	0,060777867	FALSE	34,4%
1622	3	1429,336179	Empty	614,6792315	459,6444281	56,04592934	0,03921116	FALSE	467,7980725	0,136204991	467,7980725	592,5626124	144,7678229	0,101283257	FALSE	41,5%	461,5564743	86,87200461	0,060777867	FALSE	32,3%
1623	1	932,3288881	Non-Empty	621,2654173	319,2667536	0	0	TRUE	322,6223498	0	313,3663205	281,7200031	0	0	TRUE	30,2%	212,8142027	0	0	TRUE	22,8%
1623	2	932,3288881	Non-Empty	629,747662	325,976524	0	0	TRUE	327,5596459	0	317,6447653	285,5663752	0	0	TRUE	30,6%	405,3603861	0	0	TRUE	43,5%
1623	3	932,3288881	Non-Empty	597,3785883	287,0856105	0	0	TRUE	282,1468924	0	301,3178023	365,0425098	0	0	TRUE	39,2%	314,1542993	0	0	TRUE	33,7%
1624	1	812,8023645	Non-Empty	661,1201727	320,4370607	0	0	TRUE	319,7063103	0	293,2132535	264,1006866	0	0	TRUE	32,5%	286,1980157	0	0	TRUE	35,2%
1624	2	812,8023645	Non-Empty	596,2191319	249,6352326	0	0	TRUE	243,0036947	0	264,429008	238,1743722	0	0	TRUE	29,3%	274,750095	0	0	TRUE	33,8%
1624	3	812,8023645	Non-Empty	575,3201445	242,7300712	0	0	TRUE	250,0923595	0	255,160103	310,5273057	0	0	TRUE	38,2%	251,8542538	0	0	TRUE	31,0%
1625	1	1589,668126	Empty	735,5708432	542,6739142	168,425474	0,105950086	FALSE	540,7454689	0,026420534	540,7454689	521,9431229	183,3022676	0,115308513	FALSE	32,8%	622,7565855	281,862027	0,177308724	FALSE	39,2%
1625	2	1589,668126	Empty	655,8046572	468,7617259	168,425474	0,105950086	FALSE	472,6872784	0,026420534	472,6872784	465,3429836	183,3022676	0,115308513	FALSE	29,3%	508,0382671	281,862027	0,177308724	FALSE	32,0%
1625	3	1589,668126	Empty	771,1980771	578,2324862	168,425474	0,105950086	FALSE	576,2353789	0,026420534	576,2353789	602,3820197	183,3022676	0,115308513	FALSE	37,9%	458,8732735	281,862027	0,177308724	FALSE	28,9%
1626	1	1379,022119	Non-Empty	803,6780415	488,0280084	0	0	TRUE	501,7002196	0	468,2277211	412,6824063	0	0	TRUE	29,9%	383,8515177	0	0	TRUE	27,8%
1626	2	1379,022119	Non-Empty	774,9911531	445,4430858	0	0	TRUE	445,2172627	0	451,5145652	397,9519129	0	0	TRUE	28,9%	511,8020237	0	0	TRUE	37,1%
1626	3	1379,022119	Non-Empty	788,3196575	445,5510251	0	0	TRUE	432,104637	0	459,279833	568,3878001	0	0	TRUE	41,2%	483,3685779	0	0	TRUE	35,1%
1627	1	1400,627146	Empty	633,2767874	476,8668784	140,7816561	0,1005133	FALSE	470,3328069	0,042347557	470,3328069	446,7480281	157,6645934	0,112567141	FALSE	31,9%	437,695983	193,8362987	0,138392505	FALSE	31,3%
1627	2	1400,627146	Empty	583,0532489	433,0096416	140,7816561	0,1005133	FALSE	432,8418717	0,042347557	432,8418717	411,3176014	157,6645934	0,112567141	FALSE	29,4%	525,2351796	193,8362987	0,138392505	FALSE	37,5%
1627	3	1400,627146	Empty	633,9246217	490,7506257	140,7816561	0,1005133	FALSE	497,4524671	0,042347557	497,4524671	542,5615161	157,6645934	0,112567141	FALSE	38,7%	437,695983	193,8362987	0,138392505	FALSE	31,3%
1628	1	1533,275262	Empty	636,8912252	472,4211285	145,5394926	0,094920655	FALSE	464,3411808	0,096848029	464,3411808	463,92056	134,1272243	0,08747759	FALSE	30,3%	516,8343579	161,730036	0,105480105	FALSE	33,7%
1628	2	1533,275262	Empty	652,8235933	488,3534966	145,5394926	0,094920655	FALSE	480,2735489	0,096848029	480,2735489	475,5259219	134,1272243	0,08747759	FALSE	31,0%	447,9231102	161,730036	0,105480105	FALSE	29,2%
1628	3	1533,275262	Empty	712,7308904	572,5006367	145,5394926	0,094920655	FALSE	588,6605321	0,096848029	588,6605321	593,8287799	134,1272243	0,08747759	FALSE	38,7%	568,5177937	161,730036	0,105480105	FALSE	37,1%
1629	1	1010,428424	Empty	522,3100392	380,837887	105,079201	0,1039947	FALSE	367,7526311	0,130106607	367,7526311	345,0298969	107,4607667	0,106351686	FALSE	34,1%	357,22217	99,91721949	0,098885994	FALSE	35,4%
1629	2	1010,428424	Empty	433,5858525	297,9430437	105,079201	0,1039947	FALSE	290,6871311	0,130106607	290,6871311	286,4200776	107,4607667	0,106351686	FALSE	28,3%	316,3967791	99,91721949	0,0		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1644	1	1051,14495	Non-Empty	745,5132501	333,35831	0	0	TRUE	332,8531583	0	342,7865957	319,0393797	0	0	TRUE	30,4%	328,4827968	0	0	TRUE	31,3%
1644	2	1051,14495	Non-Empty	802,6848601	390,083417	0	0	TRUE	389,1317624	0	369,0740716	343,5057389	0	0	TRUE	32,7%	328,4827968	0	0	TRUE	31,3%
1644	3	1051,14495	Non-Empty	737,8962048	327,7032227	0	0	TRUE	329,160029	0	339,2842824	388,5998311	0	0	TRUE	37,0%	394,1793561	0	0	TRUE	37,5%
1645	1	953,8926578	Empty	519,4934976	61,0530963	94,80581489	0,099388347	FALSE	349,6430464	0,059178075	349,6430464	336,2683138	105,8490261	0,110965343	FALSE	35,3%	289,3831658	136,3368692	0,142926846	FALSE	30,3%
1645	2	953,8926578	Empty	395,0804304	266,7789053	94,80581489	0,099388347	FALSE	285,5077316	0,059178075	285,5077316	255,7356941	105,8490261	0,110965343	FALSE	26,8%	375,1263261	136,3368692	0,142926846	FALSE	39,3%
1645	3	953,8926578	Empty	480,4097839	326,0606562	94,80581489	0,099388347	FALSE	318,7418798	0,059178075	318,7418798	361,8886498	105,8490261	0,110965343	FALSE	37,9%	289,3831658	136,3368692	0,142926846	FALSE	30,3%
1646	1	1467,737037	Non-Empty	758,8593569	457,9865262	0	0	TRUE	507,5940235	0	442,1307168	393,129605	0	0	TRUE	26,8%	570,7866255	0	0	TRUE	38,9%
1646	2	1467,737037	Non-Empty	895,5812919	528,2070287	0	0	TRUE	511,3130934	0	521,7883853	463,9588566	0	0	TRUE	31,6%	489,245679	0	0	TRUE	33,3%
1646	3	1467,737037	Non-Empty	864,737372	481,5434821	0	0	TRUE	448,8299201	0	503,817935	610,6485755	0	0	TRUE	41,6%	407,7047325	0	0	TRUE	27,8%
1647	1	895,1469037	Non-Empty	596,2395297	299,7591694	0	0	TRUE	330,8715683	0	284,2083243	263,1941522	0	0	TRUE	29,4%	290,9227437	0	0	TRUE	32,5%
1647	2	895,1469037	Non-Empty	609,1847932	272,4213019	0	0	TRUE	263,2505698	0	290,3789176	268,908496	0	0	TRUE	30,0%	290,9227437	0	0	TRUE	32,5%
1647	3	895,1469037	Non-Empty	672,5008583	322,9664324	0	0	TRUE	301,0247657	0	320,5596618	363,0442555	0	0	TRUE	40,6%	313,3014163	0	0	TRUE	35,0%
1648	1	1627,60736	Empty	713,8629382	519,8280663	149,5853548	0,091905062	FALSE	541,462435	0,072451325	541,462435	471,4040969	198,0093243	0,12165669	FALSE	29,0%	568,6820898	229,380104	0,140930859	FALSE	34,9%
1648	2	1627,60736	Empty	784,0638866	560,8482274	149,5853548	0,091905062	FALSE	553,3018086	0,072451325	553,3018086	517,761756	198,0093243	0,12165669	FALSE	31,8%	627,5112715	229,380104	0,140930859	FALSE	38,6%
1648	3	1627,60736	Empty	776,6882572	546,9310668	149,5853548	0,091905062	FALSE	532,8431169	0,072451325	532,8431169	638,4415076	198,0093243	0,12165669	FALSE	39,2%	431,4139992	229,380104	0,140930859	FALSE	26,5%
1649	1	1733,635241	Empty	768,6519506	560,3937686	139,0974984	0,080234582	FALSE	564,8047014	0,048189156	564,8047014	525,9775686	173,0155448	0,099799278	FALSE	30,3%	597,8052554	153,7543514	0,088688986	FALSE	34,5%
1649	2	1733,635241	Empty	782,7684978	560,7793638	139,0974984	0,080234582	FALSE	551,4593446	0,048189156	551,4593446	535,6373205	173,0155448	0,099799278	FALSE	30,9%	538,0247299	153,7543514	0,088688986	FALSE	31,0%
1649	3	1733,635241	Empty	820,222137	612,4621084	139,0974984	0,080234582	FALSE	617,3711948	0,048189156	617,3711948	672,0203516	173,0155448	0,099799278	FALSE	38,8%	597,8052554	153,7543514	0,088688986	FALSE	34,5%
1650	1	683,3172095	Non-Empty	432,9004378	218,5376115	0	0	TRUE	210,9805092	0	226,8930875	210,3608728	0	0	TRUE	30,8%	211,5029458	0	0	TRUE	31,0%
1650	2	683,3172095	Non-Empty	408,5570502	224,0521451	0	0	TRUE	246,352964	0	214,1341576	198,5316026	0	0	TRUE	29,1%	260,3113179	0	0	TRUE	38,1%
1650	3	683,3172095	Non-Empty	462,2768934	240,7274529	0	0	TRUE	225,9837363	0	242,2899644	274,4247342	0	0	TRUE	40,2%	211,5029458	0	0	TRUE	31,0%
1651	1	748,8171138	Non-Empty	460,0948578	219,6349004	0	0	TRUE	208,0831702	0	239,9978215	242,3680916	0	0	TRUE	32,4%	204,9394206	0	0	TRUE	27,4%
1651	2	748,8171138	Non-Empty	439,6652721	199,2053147	0	0	TRUE	187,6535845	0	229,3412015	231,6062245	0	0	TRUE	30,9%	252,2331331	0	0	TRUE	33,7%
1651	3	748,8171138	Non-Empty	535,7816655	329,9768987	0	0	TRUE	353,0803591	0	279,4780909	274,8427977	0	0	TRUE	36,7%	291,6445601	0	0	TRUE	38,9%
1652	1	1404,267149	Non-Empty	743,9651101	477,4888837	0	0	TRUE	491,9144017	0	464,9481998	396,060635	0	0	TRUE	28,2%	468,0890496	0	0	TRUE	33,3%
1652	2	1404,267149	Non-Empty	776,4423901	489,4730431	0	0	TRUE	483,4054406	0	485,2451904	413,3503869	0	0	TRUE	29,4%	468,0890496	0	0	TRUE	33,3%
1652	3	1404,267149	Non-Empty	726,5648818	437,3052219	0	0	TRUE	428,9473065	0	454,0737586	594,8561269	0	0	TRUE	42,4%	468,0890496	0	0	TRUE	33,3%
1653	1	998,8145073	Non-Empty	630,3582014	353,5461077	0	0	TRUE	340,5058585	0	351,7123908	314,7372357	0	0	TRUE	31,5%	393,1503912	0	0	TRUE	39,4%
1653	2	998,8145073	Non-Empty	551,8585587	314,1672128	0	0	TRUE	340,2477113	0	307,913013	275,5424406	0	0	TRUE	27,6%	318,7705874	0	0	TRUE	31,9%
1653	3	998,8145073	Non-Empty	607,9132805	331,1011868	0	0	TRUE	318,0609375	0	339,1891035	408,534831	0	0	TRUE	40,9%	286,8935287	0	0	TRUE	28,7%
1654	1	756,5814638	Empty	312,7611716	218,7510066	46,68698906	0,061707815	FALSE	251,0283156	0,207264482	251,0283156	199,3114592	66,12653644	0,08740174	FALSE	26,3%	318,1081155	75,58781519	0,099907041	FALSE	42,0%
1654	2	756,5814638	Empty	399,8193986	255,7832692	46,68698906	0,061707815	FALSE	238,0346138	0,207264482	238,0346138	254,7905399	66,12653644	0,08740174	FALSE	33,7%	232,1329491	75,58781519	0,099907041	FALSE	30,7%
1654	3	756,5814638	Empty	422,8633156	282,047188	46,68698906	0,061707815	FALSE	267,5185344	0,207264482	267,5185344	302,4794647	66,12653644	0,08740174	FALSE	40,0%	206,3403992	75,58781519	0,099907041	FALSE	27,3%
1655	1	1655,880053	Empty	699,3575636	551,9328166	133,2284201	0,080457772	FALSE	574,6361192	0,088259668	574,6361192	478,3482619	206,8129748	0,124896108	FALSE	28,9%	587,5703415	125,5780012	0,075837619	FALSE	35,5%
1655	2	1655,880053	Empty	725,4348193	543,671482	133,2284201	0,080457772	FALSE	532,0361944	0,088259668	532,0361944	496,1846457	206,8129748	0,124896108	FALSE	30,0%	534,1548559	125,5780012	0,075837619	FALSE	32,3%
1655	3	1655,880053	Empty	741,4718195	560,2757547	133,2284201	0,080457772	FALSE	549,2077397	0,088259668	549,2077397	681,3471458	206,8129748	0,124896108	FALSE	41,1%	534,1548559	125,5780012	0,075837619	FALSE	32,3%
1656	1	1137,682727	Non-Empty	619,6696172	429,161746	0	0	TRUE	422,1500306	0	417,604223	338,9547673	0	0	TRUE	29,8%	349,0617458	0	0	TRUE	30,7%
1656	2	1137,682727	Non-Empty	559,2111814	382,5433127	0	0	TRUE	389,3715998	0	376,8604179	305,8844432	0	0	TRUE	26,9%	452,4874483	0	0	TRUE	39,8%
1656	3	1137,682727	Non-Empty	509,2903961	325,9776685	0	0	TRUE	326,1610968	0	343,2180863	492,8435167	0	0	TRUE	43,3%	336,133533	0	0	TRUE	29,5%
1657	1	815,4989675	Non-Empty	517,7213464	270,6838837	0	0	TRUE	281,3648329	0	265,7603036	247,0539368	0	0	TRUE	30,3%	280,8940888	0	0	TRUE	34,4%
1657	2	815,4989675	Non-Empty	521,0446766	252,2451699	0	0	TRUE	241,1640752	0	267,4662585	248,6398126	0	0	TRUE	30,5%	253,7107899	0	0	TRUE	31,1%
1657	3	815,4989675	Non-Empty	549,8881803	292,5699139	0	0	TRUE	292,9700594	0	282,2724054	319,8052181	0	0	TRUE	39,2%	280,8940888	0	0	TRUE	34,4%
1658	1	1389,344728	Empty	567,4899452	453,5188279	74,24266249	0,053437179	FALSE	439,8756132	0,145814402	439,8756132	377,7901656	196,0369373	0,141100285	FALSE	27,2%	358,5405748	130,5083355	0,093935172	FALSE	25,8%
1658	2	1389,344728	Empty	589,48666	514,2281228	74,24266249	0,053437179	FALSE	539,2974882	0,145814402	539,2974882	392,433848	196,0369373	0,141100285	FALSE	28,2%	507,932481	130,5083355	0,093935172	FALSE	36,6%
1658	3	1389,344728	Empty	533,35183	421,5977768	74,24266249	0,053437179	FALSE	410,1716261	0,145814402	410,1716261	619,120714	196,0369373	0,141100285	FALSE	44,6%	522,8716717	130,5083355	0,093935172	FALSE	37,6%
1659	1	760,1270094	Non-Empty	492,3836076	248,1682756	0	0	TRUE	266,1598856	0	241,9748524	223,7722186	0	0	TRUE	29,4%	224,1400156	0	0	TRUE	29,5%
1659	2	760,1270094	Non-Empty	524,1485594	246,747133	0	0	TRUE	231,5526485	0	257,5852818	238,2083486	0	0	TRUE	31,3%	253,3756698	0	0	TRUE	33,3%
1659	3	760,1270094	Non-Empty	530,215668	265,2116008	0	0	TRUE	262,4144754	0	260,5668752	298,1464423	0	0	TRUE	39,2%	282,611324	0	0	TRUE	37,2%
1660	1	1791,690872	Empty	771,7273919	576,5367909	130,9444903	0,07308431	FALSE	581,8639056	0,080128916	581,8639056	504,570378	232,2335005	0,129616947	FALSE	28,2%	590,8767768	232,2023966	0,129599587	FALSE	33,0%
1660	2	1791,690872	Empty	845,3780192	654,0136008	130,9444903	0,07308431	FALSE	663,1668979	0,080128916	663,1668979	552,7245906	232,2335005	0,129616947	FALSE	30,8%	552,7556945	23			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1675	1	1686,277124	Empty	744,877355	587,197383	107,6538973	0,063841166	FALSE	591,1651197	0,08727273	591,1651197	517,7291506	170,3343624	0,101012082	FALSE	30,7%	604,8602726	162,5289439	0,096383294	FALSE	35,9%
1675	2	1686,277124	Empty	689,0317677	512,6608183	107,6538973	0,063841166	FALSE	497,9375776	0,08727273	497,9375776	478,9135144	170,3343624	0,101012082	FALSE	28,4%	549,8729751	162,5289439	0,096383294	FALSE	32,6%
1675	3	1686,277124	Empty	737,3111273	586,4189225	107,6538973	0,063841166	FALSE	597,1744264	0,08727273	597,1744264	689,6344587	170,3343624	0,101012082	FALSE	40,9%	531,5438759	162,5289439	0,096383294	FALSE	31,5%
1676	1	1235,735925	Empty	487,2578569	374,9076956	53,70418851	0,043459276	FALSE	387,2441543	0,111059616	387,2441543	329,2305216	99,38136249	0,080422816	FALSE	26,6%	402,9573669	49,33999826	0,039927623	FALSE	32,6%
1676	2	1235,735925	Empty	584,8128097	435,5279126	53,70418851	0,043459276	FALSE	410,9296354	0,111059616	410,9296354	395,1464788	99,38136249	0,080422816	FALSE	32,0%	402,9573669	49,33999826	0,039927623	FALSE	32,6%
1676	3	1235,735925	Empty	537,7251185	425,3003171	53,70418851	0,043459276	FALSE	437,5621356	0,111059616	437,5621356	511,3589249	99,38136249	0,080422816	FALSE	41,4%	429,8211914	49,33999826	0,039927623	FALSE	34,8%
1677	1	927,108388	Non-Empty	545,7509365	276,8054084	0	0	TRUE	284,596256	0	287,9219416	246,0824613	0	0	TRUE	26,5%	304,8027577	0	0	TRUE	32,9%
1677	2	927,108388	Non-Empty	636,9749088	359,6734088	0	0	TRUE	359,1082844	0	336,0489928	287,2159127	0	0	TRUE	31,0%	330,2029875	0	0	TRUE	35,6%
1677	3	927,108388	Non-Empty	574,5916697	290,6295708	0	0	TRUE	283,4038475	0	303,1374536	393,810014	0	0	TRUE	42,5%	292,1026428	0	0	TRUE	31,5%
1678	1	1008,165862	Non-Empty	617,5338175	347,9815146	0	0	TRUE	366,4206247	0	332,5480359	296,6812089	0	0	TRUE	29,4%	367,6840203	0	0	TRUE	36,5%
1678	2	1008,165862	Non-Empty	618,7138486	334,1979635	0	0	TRUE	337,6734914	0	333,1834942	297,2481302	0	0	TRUE	29,5%	249,0762718	0	0	TRUE	24,7%
1678	3	1008,165862	Non-Empty	635,8924351	325,9863841	0	0	TRUE	304,071746	0	342,4343321	414,2365231	0	0	TRUE	41,1%	391,40557	0	0	TRUE	38,8%
1679	1	967,2131666	Non-Empty	688,857065	339,6141194	0	0	TRUE	327,9162641	0	336,5265797	309,9901194	0	0	TRUE	32,0%	308,9708727	0	0	TRUE	31,9%
1679	2	967,2131666	Non-Empty	648,2079155	305,877022	0	0	TRUE	301,091219	0	316,6682957	291,6977401	0	0	TRUE	30,2%	389,5719699	0	0	TRUE	40,3%
1679	3	967,2131666	Non-Empty	642,7834574	321,7220252	0	0	TRUE	338,2056835	0	314,0182912	365,525307	0	0	TRUE	37,8%	268,670324	0	0	TRUE	27,8%
1680	1	881,0436487	Non-Empty	501,3803122	227,5399934	0	0	TRUE	229,9499382	0	258,3573378	248,3605654	0	0	TRUE	28,2%	314,658446	0	0	TRUE	35,7%
1680	2	881,0436487	Non-Empty	589,4635993	316,4279686	0	0	TRUE	319,6426015	0	303,745964	291,9929428	0	0	TRUE	33,1%	260,7169981	0	0	TRUE	29,6%
1680	3	881,0436487	Non-Empty	618,9505281	337,0756867	0	0	TRUE	331,4511089	0	318,9403469	340,6901405	0	0	TRUE	38,7%	305,6682046	0	0	TRUE	34,7%
1681	1	1190,778129	Non-Empty	585,2272351	355,8939017	0	0	TRUE	355,8939017	0	370,9196851	314,0579492	0	0	TRUE	26,4%	360,0026901	0	0	TRUE	30,2%
1681	2	1190,778129	Non-Empty	696,2428383	466,909505	0	0	TRUE	466,909505	0	441,2818797	373,6336671	0	0	TRUE	31,4%	443,080234	0	0	TRUE	37,2%
1681	3	1190,778129	Non-Empty	597,3080554	367,974722	0	0	TRUE	367,974722	0	378,576564	503,0865124	0	0	TRUE	42,2%	387,6952047	0	0	TRUE	32,6%
1682	1	1375,923933	Non-Empty	836,7545055	501,5344099	0	0	TRUE	509,4504122	0	478,6492848	419,5450297	0	0	TRUE	30,5%	453,9130501	0	0	TRUE	33,0%
1682	2	1375,923933	Non-Empty	754,6388332	422,1601601	0	0	TRUE	432,8175851	0	431,6765974	378,7225927	0	0	TRUE	27,5%	482,2826157	0	0	TRUE	35,1%
1682	3	1375,923933	Non-Empty	813,9388884	452,2293631	0	0	TRUE	433,6559358	0	465,5980509	578,0063106	0	0	TRUE	42,0%	439,7282673	0	0	TRUE	32,0%
1683	1	1445,954551	Empty	705,0736169	509,4661341	122,278692	0,084566069	FALSE	514,0259288	0,069341835	514,0259288	460,8007082	166,7446499	0,115318044	FALSE	31,9%	470,3707575	157,1746006	0,108699544	FALSE	32,5%
1683	2	1445,954551	Empty	666,8440162	453,3576812	122,278692	0,084566069	FALSE	440,0386237	0,069341835	440,0386237	435,8157611	166,7446499	0,115318044	FALSE	30,1%	435,5284792	157,1746006	0,108699544	FALSE	30,1%
1683	3	1445,954551	Empty	674,5387505	483,1307357	122,278692	0,084566069	FALSE	491,8899984	0,069341835	491,8899984	549,3380816	166,7446499	0,115318044	FALSE	38,0%	540,0553142	157,1746006	0,108699544	FALSE	37,3%
1684	1	1264,56249	Non-Empty	624,3492173	357,8560401	0	0	TRUE	356,386038	0	383,3347874	344,7036793	0	0	TRUE	27,3%	445,470877	0	0	TRUE	35,2%
1684	2	1264,56249	Non-Empty	722,2344364	454,6934826	0	0	TRUE	452,175704	0	443,4338611	398,7461835	0	0	TRUE	31,5%	373,6207356	0	0	TRUE	29,5%
1684	3	1264,56249	Non-Empty	713,0483617	452,012967	0	0	TRUE	456,0007476	0	437,7938412	521,1126268	0	0	TRUE	41,2%	445,470877	0	0	TRUE	35,2%
1685	1	1309,450893	Empty	701,9499707	468,6707901	99,31842592	0,075847385	FALSE	450,7439476	0,084388573	450,7439476	434,8664659	92,62258096	0,070733909	FALSE	33,2%	362,8598861	164,6291608	0,125723814	FALSE	27,7%
1685	2	1309,450893	Empty	631,1887777	411,1899555	99,31842592	0,075847385	FALSE	406,5434713	0,084388573	406,5434713	391,0290541	92,62258096	0,070733909	FALSE	29,9%	473,2955036	164,6291608	0,125723814	FALSE	36,1%
1685	3	1309,450893	Empty	622,369159	429,5901476	99,31842592	0,075847385	FALSE	452,1634743	0,084388573	452,1634743	483,5553732	92,62258096	0,070733909	FALSE	36,9%	473,2955036	164,6291608	0,125723814	FALSE	36,1%
1686	1	1093,372429	Empty	495,7954273	338,4090883	86,35204757	0,078977707	FALSE	333,5821653	0,097768411	333,5821653	315,8010033	88,49470243	0,080937382	FALSE	28,9%	377,4738146	128,6590429	0,117671746	FALSE	34,5%
1686	2	1093,372429	Empty	568,4359635	400,2642225	86,35204757	0,078977707	FALSE	384,6518974	0,097768411	384,6518974	362,0699944	88,49470243	0,080937382	FALSE	33,1%	403,5064915	128,6590429	0,117671746	FALSE	36,9%
1686	3	1093,372429	Empty	486,8192856	354,6991178	86,35204757	0,078977707	FALSE	375,1383659	0,097768411	375,1383659	415,5014308	88,49470243	0,080937382	FALSE	38,0%	312,3921225	128,6590429	0,117671746	FALSE	28,6%
1687	1	573,5036156	Non-Empty	530,9899576	237,152561	0	0	TRUE	228,7004557	0	213,0050287	191,9750433	0	0	TRUE	33,5%	191,1678719	0	0	TRUE	33,3%
1687	2	573,5036156	Non-Empty	486,5754773	187,9072848	0	0	TRUE	174,6243835	0	195,1882932	175,9173539	0	0	TRUE	30,7%	168,2277272	0	0	TRUE	29,3%
1687	3	573,5036156	Non-Empty	412,0940543	148,4437697	0	0	TRUE	170,1787764	0	165,3102937	205,6112184	0	0	TRUE	35,9%	214,1080165	0	0	TRUE	37,3%
1688	1	1570,574064	Empty	735,8006108	546,7331046	50,23255134	0,031983561	FALSE	554,0200319	0,144652517	554,0200319	475,8325697	113,3572797	0,072175698	FALSE	30,3%	538,9224728	46,07377476	0,029335627	FALSE	34,3%
1688	2	1570,574064	Empty	645,6774595	480,6758424	50,23255134	0,031983561	FALSE	512,0286588	0,144652517	512,0286588	417,551114	113,3572797	0,072175698	FALSE	26,6%	554,3202577	46,07377476	0,029335627	FALSE	35,3%
1688	3	1570,574064	Empty	778,1592938	543,1651166	50,23255134	0,031983561	FALSE	504,5253729	0,144652517	504,5253729	677,1903799	113,3572797	0,072175698	FALSE	43,1%	477,3313331	46,07377476	0,029335627	FALSE	30,4%
1689	1	1216,124022	Non-Empty	755,3943934	387,8268643	0	0	TRUE	380,8986346	0	399,7547912	384,3337405	0	0	TRUE	31,6%	382,210407	0	0	TRUE	31,4%
1689	2	1216,124022	Non-Empty	709,8875979	357,2475659	0	0	TRUE	365,2468333	0	375,6725903	361,1805412	0	0	TRUE	29,7%	440,1210747	0	0	TRUE	36,2%
1689	3	1216,124022	Non-Empty	832,7599289	471,049592	0	0	TRUE	469,9785543	0	440,6966407	470,6097405	0	0	TRUE	38,7%	393,7925405	0	0	TRUE	32,4%
1690	1	1244,619146	Non-Empty	761,3459086	400,3738661	0	0	TRUE	380,8608105	0	417,6233233	371,8632513	0	0	TRUE	29,9%	529,6251686	0	0	TRUE	42,6%
1690	2	1244,619146	Non-Empty	755,1936213	443,7081636	0	0	TRUE	473,6816927	0	414,248591	368,8582972	0	0	TRUE	29,6%	370,737618	0	0	TRUE	29,8%
1690	3	1244,619146	Non-Empty	752,4565766	400,5371164	0	0	TRUE	390,076643	0	412,7472318	503,8975976	0	0	TRUE	40,5%	344,2563596	0	0	TRUE	27,7%
1691	1	762,949387	Non-Empty	550,5751951	282,4907419	0	0	TRUE	287,6183048	0	265,4270653	251,7238354	0	0	TRUE	33,0%	317,1812058	0	0	TRUE	41,6%
1691	2	762,949387	Non-Empty	470,1292629	218,3446272	0	0	TRUE	239,7720076	0	226,6448464	214,9438301	0	0	TRUE	28,2%	248,6014857	0	0	TRUE	32,6%
1691	3	762,949387	Non-Empty	561,8809773	262,1140179	0	0	TRUE													

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1706	1	1455,601802	Empty	684,2627911	503,1251894	96,78909031	0,066494209	FALSE	527,2535012	0,109894274	527,2535012	430,2643785	169,6499012	0,116549664	FALSE	29,6%	541,6192753	117,376687	0,08063791	FALSE	37,2%
1706	2	1455,601802	Empty	708,1772286	485,3836412	96,78909031	0,066494209	FALSE	467,8559672	0,109894274	467,8559672	445,3017746	169,6499012	0,116549664	FALSE	30,6%	423,1400588	117,376687	0,08063791	FALSE	29,1%
1706	3	1455,601802	Empty	678,9595227	467,0929716	96,78909031	0,066494209	FALSE	460,4923339	0,109894274	460,4923339	580,0356491	169,6499012	0,116549664	FALSE	39,8%	490,8424682	117,376687	0,08063791	FALSE	33,7%
1707	1	1089,806576	Empty	536,1509765	364,616353	69,74335432	0,063996085	FALSE	366,3054916	0,011075029	366,3054916	343,6356621	90,63134814	0,083162783	FALSE	31,5%	250,5302474	183,7767628	0,168632459	FALSE	23,0%
1707	2	1089,806576	Empty	517,1785645	346,236638	69,74335432	0,063996085	FALSE	347,9784738	0,011075029	347,9784738	331,8603867	90,63134814	0,083162783	FALSE	30,5%	476,00747	183,7767628	0,168632459	FALSE	43,7%
1707	3	1089,806576	Empty	555,6083216	378,9535851	69,74335432	0,063996085	FALSE	375,5226107	0,011075029	375,5226107	414,2705273	90,63134814	0,083162783	FALSE	38,0%	363,2688587	183,7767628	0,168632459	FALSE	33,3%
1708	1	968,2376871	Non-Empty	703,6310011	310,9643345	0	0	TRUE	324,9831299	0	311,3302099	298,6625507	0	0	TRUE	30,8%	278,3683351	0	0	TRUE	28,8%
1708	2	968,2376871	Non-Empty	731,4238686	317,7290088	0	0	TRUE	310,7196111	0	323,6275067	310,459485	0	0	TRUE	32,1%	314,6772483	0	0	TRUE	32,5%
1708	3	968,2376871	Non-Empty	753,2392037	339,5443439	0	0	TRUE	332,5349462	0	333,2799706	359,1156515	0	0	TRUE	37,1%	375,1921038	0	0	TRUE	38,8%
1709	1	853,5777767	Non-Empty	692,7177147	335,0246222	0	0	TRUE	323,666599	0	312,424053	273,8317575	0	0	TRUE	32,1%	307,2879996	0	0	TRUE	36,0%
1709	2	853,5777767	Non-Empty	615,9206285	273,0616979	0	0	TRUE	276,5378367	0	277,7876399	243,47382	0	0	TRUE	28,5%	307,2879996	0	0	TRUE	36,0%
1709	3	853,5777767	Non-Empty	583,9446414	245,4914565	0	0	TRUE	253,373341	0	263,3660837	336,2721991	0	0	TRUE	39,4%	239,0017775	0	0	TRUE	28,0%
1710	1	1180,612288	Empty	562,7188345	389,7521592	99,9149284	0,084629755	FALSE	388,9911148	0,175056786	388,9911148	353,6647552	162,0512479	0,137260343	FALSE	30,0%	419,2828687	149,8920992	0,126961324	FALSE	35,5%
1710	2	1180,612288	Empty	559,9983045	414,091241	99,9149284	0,084629755	FALSE	440,3898083	0,175056786	440,3898083	351,9549215	162,0512479	0,137260343	FALSE	29,8%	364,1140702	149,8920992	0,126961324	FALSE	30,8%
1710	3	1180,612288	Empty	574,5120417	376,768888	99,9149284	0,084629755	FALSE	351,2313651	0,175056786	351,2313651	474,9926115	162,0512479	0,137260343	FALSE	40,2%	397,2153493	149,8920992	0,126961324	FALSE	33,6%
1711	1	979,6283253	Non-Empty	684,8451924	376,6038721	0	0	TRUE	372,4514809	0	354,6146636	299,2228923	0	0	TRUE	30,5%	257,1524354	0	0	TRUE	26,3%
1711	2	979,6283253	Non-Empty	630,2150043	334,4308577	0	0	TRUE	342,7356402	0	326,3270068	275,3538441	0	0	TRUE	28,1%	404,0966842	0	0	TRUE	41,3%
1711	3	979,6283253	Non-Empty	576,8349157	268,5935954	0	0	TRUE	264,4412041	0	298,6866548	405,0515889	0	0	TRUE	41,3%	318,3792057	0	0	TRUE	32,5%
1712	1	1015,737478	Non-Empty	597,7384926	363,4124405	0	0	TRUE	355,1597218	0	356,524104	318,3446087	0	0	TRUE	31,3%	330,1146804	0	0	TRUE	32,5%
1712	2	1015,737478	Non-Empty	505,859232	301,1811096	0	0	TRUE	325,5763204	0	301,722261	269,4113919	0	0	TRUE	26,5%	406,2949913	0	0	TRUE	40,0%
1712	3	1015,737478	Non-Empty	599,3597534	351,143928	0	0	TRUE	332,0014359	0	357,4911131	427,9814775	0	0	TRUE	42,1%	279,3278065	0	0	TRUE	27,5%
1713	1	1473,11277	Empty	674,4363812	469,8411839	163,2475696	0,110818108	FALSE	477,6621862	0,020614569	477,6621862	464,5675353	168,5212182	0,114398043	FALSE	31,5%	447,7107439	218,6632798	0,148436212	FALSE	30,4%
1713	2	1473,11277	Empty	671,8600833	464,7523647	163,2475696	0,110818108	FALSE	470,0608457	0,020614569	470,0608457	462,7929211	168,5212182	0,114398043	FALSE	31,4%	563,2490004	218,6632798	0,148436212	FALSE	38,2%
1713	3	1473,11277	Empty	764,0649048	538,5192219	163,2475696	0,110818108	FALSE	525,3897385	0,020614569	525,3897385	545,7523141	168,5212182	0,114398043	FALSE	37,0%	462,153026	218,6632798	0,148436212	FALSE	31,4%
1714	1	857,7584843	Non-Empty	591,4438585	309,9382251	0	0	TRUE	336,3868696	0	284,7496168	247,5164619	0	0	TRUE	28,9%	351,9009166	0	0	TRUE	41,0%
1714	2	857,7584843	Non-Empty	607,4424036	288,9669734	0	0	TRUE	278,4458211	0	292,4520885	254,2117775	0	0	TRUE	29,6%	263,9256875	0	0	TRUE	30,8%
1714	3	857,7584843	Non-Empty	582,7350562	258,8532859	0	0	TRUE	242,9257936	0	280,5567791	356,030245	0	0	TRUE	41,5%	241,9318802	0	0	TRUE	28,2%
1715	1	1112,863343	Non-Empty	565,6458027	355,6308207	0	0	TRUE	340,9407008	0	370,539454	317,4869208	0	0	TRUE	28,5%	367,0081236	0	0	TRUE	33,0%
1715	2	1112,863343	Non-Empty	584,3939737	394,073347	0	0	TRUE	399,0775826	0	382,8208799	328,0099355	0	0	TRUE	29,5%	355,1691519	0	0	TRUE	31,9%
1715	3	1112,863343	Non-Empty	548,7981529	363,159175	0	0	TRUE	372,8450593	0	359,5030087	467,3664863	0	0	TRUE	42,0%	390,6860671	0	0	TRUE	35,1%
1716	1	1058,554814	Non-Empty	728,9677505	374,8679973	0	0	TRUE	343,425114	0	380,7760379	346,588014	0	0	TRUE	32,7%	345,6505515	0	0	TRUE	32,7%
1716	2	1058,554814	Non-Empty	637,8136926	338,9487437	0	0	TRUE	362,7406646	0	333,1617491	303,2487801	0	0	TRUE	28,6%	334,8489718	0	0	TRUE	31,6%
1716	3	1058,554814	Non-Empty	659,7439805	344,7380731	0	0	TRUE	352,3890355	0	344,617027	408,71802	0	0	TRUE	38,6%	378,0552907	0	0	TRUE	35,7%
1717	1	1089,778508	Non-Empty	616,9203418	368,0272674	0	0	TRUE	378,1403877	0	360,1390492	316,5617255	0	0	TRUE	29,0%	355,0963678	0	0	TRUE	32,6%
1717	2	1089,778508	Non-Empty	619,2680004	365,6192657	0	0	TRUE	370,9767257	0	361,5095398	317,7663849	0	0	TRUE	29,2%	330,6069632	0	0	TRUE	30,3%
1717	3	1089,778508	Non-Empty	630,6087498	356,131975	0	0	TRUE	340,6613948	0	368,1299192	455,4503978	0	0	TRUE	41,8%	404,0751772	0	0	TRUE	37,1%
1718	1	1300,750719	Empty	544,9313702	445,2266012	104,4641673	0,080310674	FALSE	462,0589573	0,09040717	462,0589573	356,2221733	193,4685953	0,148736105	FALSE	27,4%	502,5627778	135,8899938	0,104470435	FALSE	38,6%
1718	2	1300,750719	Empty	608,333313	476,9647997	104,4641673	0,080310674	FALSE	462,1334113	0,09040717	462,1334113	397,6680857	193,4685953	0,148736105	FALSE	30,6%	413,8752288	135,8899938	0,104470435	FALSE	31,8%
1718	3	1300,750719	Empty	497,0974109	378,5593182	104,4641673	0,080310674	FALSE	376,5583505	0,09040717	376,5583505	546,8604601	193,4685953	0,148736105	FALSE	42,0%	384,3127125	135,8899938	0,104470435	FALSE	29,5%
1719	1	1020,704525	Empty	465,6939303	343,1188865	99,80805219	0,097783491	FALSE	344,4287203	0,119251456	344,4287203	310,1171519	118,4183174	0,116016256	FALSE	30,4%	347,249993	120,2810816	0,117841235	FALSE	34,0%
1719	2	1020,704525	Empty	482,3268117	341,4307972	99,80805219	0,097783491	FALSE	324,4196602	0,119251456	324,4196602	321,1934007	118,4183174	0,116016256	FALSE	31,5%	357,7727201	120,2810816	0,117841235	FALSE	35,1%
1719	3	1020,704525	Empty	444,3384156	336,1548412	99,80805219	0,097783491	FALSE	351,8561444	0,119251456	351,8561444	389,3939723	118,4183174	0,116016256	FALSE	38,1%	315,6818118	120,2810816	0,117841235	FALSE	30,9%
1720	1	1480,445415	Empty	696,8106768	536,7279547	171,0650202	0,115549698	FALSE	534,6199378	0,083855944	534,6199378	488,010775	206,091848	0,139209353	FALSE	33,0%	551,2296757	183,1574511	0,123717801	FALSE	37,2%
1720	2	1480,445415	Empty	574,4276497	437,3267521	171,0650202	0,115549698	FALSE	458,2005597	0,083855944	458,2005597	402,2999243	206,091848	0,139209353	FALSE	27,2%	425,2343212	183,1574511	0,123717801	FALSE	28,7%
1720	3	1480,445415	Empty	683,1312038	506,3907079	171,0650202	0,115549698	FALSE	487,6249171	0,083855944	487,6249171	590,1347153	206,091848	0,139209353	FALSE	39,9%	503,9814178	183,1574511	0,123717801	FALSE	34,0%
1721	1	1087,977217	Non-Empty	713,9446827	327,1284923	0	0	TRUE	325,5984331	0	346,1731089	325,879336	0	0	TRUE	30,0%	305,6115779	0	0	TRUE	28,1%
1721	2	1087,977217	Non-Empty	773,7317897	375,514446	0	0	TRUE	362,5832333	0	375,1623139	353,1691012	0	0	TRUE	32,5%	391,1828197	0	0	TRUE	36,0%
1721	3	1087,977217	Non-Empty	756,1591381	385,3342791	0	0	TRUE	399,795551	0	366,6417946	408,9287801	0	0	TRUE	37,6%	391,1828197	0	0	TRUE	36,0%
1722	1	1289,687068	Non-Empty	792,5682142	497,7049057	0	0	TRUE	516,9960033	0	457,9283853	391,2319238	0	0	TRUE	30,3%	364,4767801	0	0	TRUE	28,3%
1722	2	1289,687068	Non-Empty	749,6683581	416,0366588	0	0	TRUE	396,5593658												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1737	1	752,6048057	Non-Empty	456,4901268	251,1890917	0	0	TRUE	262,5062097	0	244,9673026	220,8294305	0	0	TRUE	29,3%	220,2745773	0	0	TRUE	29,3%
1737	2	752,6048057	Non-Empty	465,6408356	250,7524964	0	0	TRUE	252,4823105	0	249,8778676	225,2561326	0	0	TRUE	29,9%	256,9870068	0	0	TRUE	34,1%
1737	3	752,6048057	Non-Empty	480,3283029	250,6632176	0	0	TRUE	237,6162855	0	257,7596355	306,5192426	0	0	TRUE	40,7%	275,3432216	0	0	TRUE	36,6%
1738	1	876,2525742	Non-Empty	544,2685849	317,9121974	0	0	TRUE	307,0157667	0	313,2185645	281,6052763	0	0	TRUE	32,1%	328,5947153	0	0	TRUE	37,5%
1738	2	876,2525742	Non-Empty	474,1164316	257,6497413	0	0	TRUE	256,6430077	0	272,8470322	245,3084606	0	0	TRUE	28,0%	292,0841914	0	0	TRUE	33,3%
1738	3	876,2525742	Non-Empty	504,247428	300,6906355	0	0	TRUE	312,5937998	0	290,1869774	349,3388372	0	0	TRUE	39,9%	255,5736675	0	0	TRUE	29,2%
1739	1	1161,215643	Non-Empty	597,7541634	318,4850413	0	0	TRUE	339,0458143	0	336,836847	310,1922345	0	0	TRUE	26,7%	344,9155376	0	0	TRUE	29,7%
1739	2	1161,215643	Non-Empty	730,6380076	420,5631128	0	0	TRUE	410,318113	0	411,7174214	379,1495737	0	0	TRUE	32,7%	436,8930143	0	0	TRUE	37,6%
1739	3	1161,215643	Non-Empty	732,3131575	422,1674892	0	0	TRUE	411,851716	0	412,661375	471,8738351	0	0	TRUE	40,6%	379,4070914	0	0	TRUE	32,7%
1740	1	1222,953877	Non-Empty	819,0122383	396,5500513	0	0	TRUE	394,5885468	0	403,1523289	376,2812884	0	0	TRUE	30,8%	321,8299675	0	0	TRUE	26,3%
1740	2	1222,953877	Non-Empty	793,2491829	390,3232988	0	0	TRUE	407,898097	0	390,4706677	364,4448894	0	0	TRUE	29,8%	466,6534529	0	0	TRUE	38,2%
1740	3	1222,953877	Non-Empty	872,1945026	436,0805265	0	0	TRUE	420,4672328	0	429,33088	482,2276989	0	0	TRUE	39,4%	434,4704562	0	0	TRUE	35,5%
1741	1	1450,331988	Empty	675,3425065	442,0891861	101,4300149	0,069935722	FALSE	424,6881055	0,14493329	424,6881055	422,0755353	184,9808303	0,127543784	FALSE	29,1%	353,7395093	147,1439162	0,101455334	FALSE	24,4%
1741	2	1450,331988	Empty	731,0765661	540,4590213	101,4300149	0,069935722	FALSE	565,6937162	0,14493329	565,6937162	456,9082059	184,9808303	0,127543784	FALSE	31,5%	548,2962394	147,1439162	0,101455334	FALSE	37,8%
1741	3	1450,331988	Empty	691,4696346	467,7837807	101,4300149	0,069935722	FALSE	459,9501664	0,14493329	459,9501664	571,3482468	184,9808303	0,127543784	FALSE	39,4%	548,2962394	147,1439162	0,101455334	FALSE	37,8%
1742	1	1277,330744	Non-Empty	708,6630917	460,0306092	0	0	TRUE	442,1211416	0	459,6076422	396,1209078	0	0	TRUE	31,0%	395,0507456	0	0	TRUE	30,9%
1742	2	1277,330744	Non-Empty	633,4879873	386,3881372	0	0	TRUE	370,0113021	0	410,8523833	354,1003328	0	0	TRUE	27,7%	421,387462	0	0	TRUE	33,0%
1742	3	1277,330744	Non-Empty	627,3487101	430,9119979	0	0	TRUE	465,1983006	0	406,8707188	527,1095036	0	0	TRUE	41,3%	460,8925366	0	0	TRUE	36,1%
1743	1	933,4398762	Non-Empty	691,7316153	350,755137	0	0	TRUE	355,4304327	0	327,6956186	295,339368	0	0	TRUE	31,6%	248,9173003	0	0	TRUE	26,7%
1743	2	933,4398762	Non-Empty	629,36601	285,1909146	0	0	TRUE	286,6675933	0	298,1510161	268,7119622	0	0	TRUE	28,8%	336,0383554	0	0	TRUE	36,0%
1743	3	933,4398762	Non-Empty	649,2975731	297,4938247	0	0	TRUE	291,3418503	0	307,5932416	369,388546	0	0	TRUE	39,6%	348,4842205	0	0	TRUE	37,3%
1744	1	902,8331885	Non-Empty	595,839896	268,2941332	0	0	TRUE	268,0674899	0	285,4131638	262,0097031	0	0	TRUE	29,0%	312,5191806	0	0	TRUE	34,6%
1744	2	902,8331885	Non-Empty	643,8463522	320,4327812	0	0	TRUE	324,3383296	0	308,408728	283,1196647	0	0	TRUE	31,4%	277,7948272	0	0	TRUE	30,8%
1744	3	902,8331885	Non-Empty	645,1042986	314,1062741	0	0	TRUE	310,427369	0	309,0121967	357,7038208	0	0	TRUE	39,6%	312,5191806	0	0	TRUE	34,6%
1745	1	1825,137494	Empty	878,0729479	648,6426421	128,7529214	0,070544231	FALSE	669,919897	0,149991501	669,919897	559,2650928	214,0518452	0,117279846	FALSE	30,6%	518,50497	254,811968	0,139612478	FALSE	28,4%
1745	2	1825,137494	Empty	810,4765832	585,1249031	128,7529214	0,070544231	FALSE	610,4807836	0,149991501	610,4807836	516,2113952	214,0518452	0,117279846	FALSE	28,3%	642,9461628	254,811968	0,139612478	FALSE	35,2%
1745	3	1825,137494	Empty	888,710645	591,369949	128,7529214	0,070544231	FALSE	544,7368137	0,149991501	544,7368137	749,6610063	214,0518452	0,117279846	FALSE	41,1%	663,6863616	254,811968	0,139612478	FALSE	36,4%
1746	1	1891,758562	Empty	888,049539	658,074576	185,9524086	0,098296058	FALSE	644,3743952	0,055643773	644,3743952	606,9513003	240,541833	0,127152501	FALSE	32,1%	495,8978755	312,2071542	0,165035412	FALSE	26,2%
1746	2	1891,758562	Empty	785,514696	591,4616878	185,9524086	0,098296058	FALSE	613,6834619	0,055643773	613,6834619	536,8722635	240,541833	0,127152501	FALSE	28,4%	697,9303433	312,2071542	0,165035412	FALSE	36,9%
1746	3	1891,758562	Empty	867,0186739	642,2222984	185,9524086	0,098296058	FALSE	633,7007052	0,055643773	633,7007052	747,9349985	240,541833	0,127152501	FALSE	39,5%	697,9303433	312,2071542	0,165035412	FALSE	36,9%
1747	1	1039,292281	Empty	533,0022846	373,9901947	94,16225587	0,090602285	FALSE	377,3800533	0,122956131	377,3800533	329,0890933	134,8249639	0,129727668	FALSE	31,7%	323,3353762	134,1478027	0,129076108	FALSE	31,1%
1747	2	1039,292281	Empty	493,8414014	345,4985832	94,16225587	0,090602285	FALSE	359,5577136	0,122956131	359,5577136	304,8358752	134,8249639	0,129727668	FALSE	29,3%	381,0738363	134,1478027	0,129076108	FALSE	36,7%
1747	3	1039,292281	Empty	499,6544403	319,8035028	94,16225587	0,090602285	FALSE	302,3545139	0,122956131	302,3545139	405,4475023	134,8249639	0,129727668	FALSE	39,0%	334,8830682	134,1478027	0,129076108	FALSE	32,2%
1748	1	911,1086363	Non-Empty	683,738466	312,3342193	0	0	TRUE	304,2311115	0	311,324733	281,2337101	0	0	TRUE	30,9%	374,5668838	0	0	TRUE	41,1%
1748	2	911,1086363	Non-Empty	683,8726227	334,7203616	0	0	TRUE	348,8692395	0	311,383558	281,288551	0	0	TRUE	30,9%	263,2091616	0	0	TRUE	28,9%
1748	3	911,1086363	Non-Empty	633,4009644	264,0540554	0	0	TRUE	258,0082853	0	288,4026051	348,5867152	0	0	TRUE	38,3%	273,3325909	0	0	TRUE	30,0%
1749	1	1077,281244	Empty	533,3447174	348,6474489	114,5998907	0,106378804	FALSE	330,0221599	0,181051508	330,0221599	341,4767816	91,28529115	0,084736731	FALSE	31,7%	363,1285093	106,3054913	0,098679423	FALSE	33,7%
1749	2	1077,281244	Empty	548,1125695	367,0759093	114,5998907	0,106378804	FALSE	352,1112287	0,181051508	352,1112287	350,9319771	91,28529115	0,084736731	FALSE	32,6%	326,8156584	106,3054913	0,098679423	FALSE	30,3%
1749	3	1077,281244	Empty	494,0398958	361,557886	114,5998907	0,106378804	FALSE	395,1478557	0,181051508	395,1478557	384,8724856	91,28529115	0,084736731	FALSE	35,7%	387,3370766	106,3054913	0,098679423	FALSE	36,0%
1750	1	1189,204105	Empty	586,5299681	419,9485335	92,17331127	0,077508403	FALSE	416,6240261	0,042206625	416,6240261	362,65809	153,9881997	0,129488453	FALSE	30,5%	486,4925883	164,5140315	0,13833961	FALSE	40,9%
1750	2	1189,204105	Empty	585,2741282	423,6964784	92,17331127	0,077508403	FALSE	425,3757158	0,042206625	425,3757158	361,88159	153,9881997	0,129488453	FALSE	30,4%	351,3557582	164,5140315	0,13833961	FALSE	29,5%
1750	3	1189,204105	Empty	507,1706699	345,5590728	92,17331127	0,077508403	FALSE	347,2043629	0,042206625	347,2043629	464,6644247	153,9881997	0,129488453	FALSE	39,1%	351,3557582	164,5140315	0,13833961	FALSE	29,5%
1751	1	1158,791044	Non-Empty	723,0099043	442,7313201	0	0	TRUE	460,9145405	0	407,8604827	360,2170669	0	0	TRUE	31,1%	418,1204797	0	0	TRUE	36,1%
1751	2	1158,791044	Non-Empty	650,1331071	342,5796922	0	0	TRUE	333,488082	0	366,7496134	323,9084825	0	0	TRUE	28,0%	430,0667791	0	0	TRUE	37,1%
1751	3	1158,791044	Non-Empty	681,0334465	373,4800315	0	0	TRUE	364,3884213	0	384,1809477	474,6654944	0	0	TRUE	41,0%	310,6037849	0	0	TRUE	26,8%
1752	1	1131,877698	Empty	516,1764588	387,6621203	93,03643842	0,082196547	FALSE	384,0427982	0,224900582	384,0427982	353,7237387	93,60916026	0,08270254	FALSE	31,3%	474,6583895	151,5293061	0,133874275	FALSE	41,9%
1752	2	1131,877698	Empty	495,9643598	344,9423278	93,03643842	0,082196547	FALSE	318,8153121	0,224900582	318,8153121	339,8728567	93,60916026	0,08270254	FALSE	30,0%	316,4389263	151,5293061	0,133874275	FALSE	28,0%
1752	3	1131,877698	Empty	494,4219285	399,2732498	93,03643842	0,082196547	FALSE	429,0195876	0,224900582	429,0195876	438,2811026	93,60916026	0,08270254	FALSE	38,7%	340,7803822	151,5293061	0,133874275	FALSE	30,1%
1753	1	1344,868746	Non-Empty	897,164247	448,9948103	0	0	TRUE	413,8788955	0	466,932844	429,7912809	0	0	TRUE	32,0%	336,2171864	0	0	TRUE	25,0%
1753	2	1344,868746	Non-Empty	849,5478664	440,9980284	0	0	TRUE	445,5017125												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1768	1	873,3148393	Non-Empty	582,3235367	317,4072759	0	0	TRUE	300,1737407	0	314,6272099	263,4088988	0	0	TRUE	30,2%	342,6931648	0	0	TRUE	39,2%
1768	2	873,3148393	Non-Empty	525,1942099	298,7015396	0	0	TRUE	319,8915948	0	283,7604502	237,5669534	0	0	TRUE	27,2%	298,4746919	0	0	TRUE	34,2%
1768	3	873,3148393	Non-Empty	508,8452695	257,2060239	0	0	TRUE	253,2495038	0	274,9271793	372,3389871	0	0	TRUE	42,6%	232,1469826	0	0	TRUE	26,6%
1769	1	870,4202946	Non-Empty	592,5502763	284,4153675	0	0	TRUE	300,3166002	0	279,9238789	260,4282964	0	0	TRUE	29,9%	293,635762	0	0	TRUE	33,7%
1769	2	870,4202946	Non-Empty	643,8612679	292,0337016	0	0	TRUE	264,2422767	0	304,1634623	282,9796894	0	0	TRUE	32,5%	209,73983	0	0	TRUE	24,1%
1769	3	870,4202946	Non-Empty	606,1171748	293,9712255	0	0	TRUE	305,8614177	0	286,3329534	327,0123087	0	0	TRUE	37,6%	367,0447025	0	0	TRUE	42,2%
1770	1	1571,075133	Empty	807,4903426	562,7688997	144,319091	0,091860082	FALSE	546,1741947	0,197398189	546,1741947	511,9902915	213,3031479	0,135768903	FALSE	32,6%	401,902941	237,0066785	0,150856362	FALSE	25,6%
1770	2	1571,075133	Empty	670,9331675	494,3900958	144,319091	0,091860082	FALSE	545,973762	0,197398189	545,973762	425,4060388	213,3031479	0,135768903	FALSE	27,1%	639,3910425	237,0066785	0,150856362	FALSE	40,7%
1770	3	1571,075133	Empty	777,0318366	513,9161376	144,319091	0,091860082	FALSE	478,9271764	0,197398189	478,9271764	633,6788028	213,3031479	0,135768903	FALSE	40,3%	529,7811495	237,0066785	0,150856362	FALSE	33,7%
1771	1	1460,265855	Empty	624,0039837	495,1495207	53,70160909	0,036775228	FALSE	497,944435	0,017733411	497,944435	447,0747112	98,21684449	0,067259564	FALSE	30,6%	529,7042808	129,2346245	0,088500751	FALSE	36,3%
1771	2	1460,265855	Empty	541,2516956	415,9568068	53,70160909	0,036775228	FALSE	422,3112951	0,017733411	422,3112951	387,7858986	98,21684449	0,067259564	FALSE	26,6%	472,4389531	129,2346245	0,088500751	FALSE	32,4%
1771	3	1460,265855	Empty	689,9583074	549,1595276	53,70160909	0,036775228	FALSE	540,010125	0,017733411	540,010125	625,4052453	98,21684449	0,067259564	FALSE	42,8%	458,1226212	129,2346245	0,088500751	FALSE	31,4%
1772	1	1355,513771	Non-Empty	850,5827755	484,2347798	0	0	TRUE	499,4419693	0	461,1575871	406,8220967	0	0	TRUE	30,0%	436,7766597	0	0	TRUE	32,2%
1772	2	1355,513771	Non-Empty	867,1077497	453,3653726	0	0	TRUE	421,1781807	0	470,1168765	414,7257656	0	0	TRUE	30,6%	451,8379238	0	0	TRUE	33,3%
1772	3	1355,513771	Non-Empty	782,4888023	417,9136192	0	0	TRUE	434,8936215	0	424,2393079	533,9659092	0	0	TRUE	39,4%	466,899188	0	0	TRUE	34,4%
1773	1	1187,977026	Non-Empty	848,8791096	374,6984028	0	0	TRUE	378,4621846	0	384,638357	354,1715607	0	0	TRUE	29,8%	296,9942565	0	0	TRUE	25,0%
1773	2	1187,977026	Non-Empty	898,9069062	407,8281324	0	0	TRUE	394,6938471	0	407,3066136	375,0442887	0	0	TRUE	31,6%	534,5896616	0	0	TRUE	45,0%
1773	3	1187,977026	Non-Empty	874,0244758	405,4504907	0	0	TRUE	414,8209942	0	396,0320552	458,7611765	0	0	TRUE	38,6%	356,3931078	0	0	TRUE	30,0%
1774	1	1048,00015	Non-Empty	702,0333241	309,9096896	0	0	TRUE	335,4808124	0	319,7323062	294,4022682	0	0	TRUE	28,1%	272,2078312	0	0	TRUE	26,0%
1774	2	1048,00015	Non-Empty	847,7605365	408,2478087	0	0	TRUE	386,4298382	0	386,1019443	355,5139283	0	0	TRUE	33,9%	367,4805721	0	0	TRUE	35,1%
1774	3	1048,00015	Non-Empty	751,2905613	329,8426516	0	0	TRUE	326,0894993	0	342,1658994	398,0839535	0	0	TRUE	38,0%	408,3117467	0	0	TRUE	39,0%
1775	1	1302,452717	Non-Empty	740,2926819	405,9056566	0	0	TRUE	424,2300954	0	408,4561045	368,4790543	0	0	TRUE	28,3%	455,2261924	0	0	TRUE	35,0%
1775	2	1302,452717	Non-Empty	826,4072643	467,7602017	0	0	TRUE	461,8246034	0	455,9697808	411,3423983	0	0	TRUE	31,6%	467,8713644	0	0	TRUE	35,9%
1775	3	1302,452717	Non-Empty	793,8871634	428,7868589	0	0	TRUE	416,3980184	0	438,0268319	522,6312646	0	0	TRUE	40,1%	379,3551603	0	0	TRUE	29,1%
1776	1	1292,806071	Empty	475,5538603	426,428797	138,7498734	0,107324584	FALSE	442,2414804	0,090734175	442,2414804	354,6005138	210,5781566	0,162884567	FALSE	27,4%	488,3934047	221,6386169	0,171439957	FALSE	37,8%
1776	2	1292,806071	Empty	509,8356305	436,9915422	138,7498734	0,107324584	FALSE	429,0852006	0,090734175	429,0852006	380,1629881	210,5781566	0,162884567	FALSE	29,4%	330,3837737	221,6386169	0,171439957	FALSE	25,6%
1776	3	1292,806071	Empty	502,2298202	429,3857319	138,7498734	0,107324584	FALSE	421,4793902	0,090734175	421,4793902	558,0425692	210,5781566	0,162884567	FALSE	43,2%	474,0288928	221,6386169	0,171439957	FALSE	36,7%
1777	1	1136,358118	Empty	529,9161124	391,0678503	80,30403037	0,07066789	FALSE	391,8906176	0,061862777	391,8906176	336,9733838	122,6812332	0,10796001	FALSE	29,7%	269,4457393	190,2088778	0,167384625	FALSE	23,7%
1777	2	1136,358118	Empty	549,6814572	396,6476296	80,30403037	0,07066789	FALSE	383,2848314	0,061862777	383,2848314	349,5421564	122,6812332	0,10796001	FALSE	30,8%	421,7411571	190,2088778	0,167384625	FALSE	37,1%
1777	3	1136,358118	Empty	475,7736364	348,6426379	80,30403037	0,07066789	FALSE	361,1826687	0,061862777	361,1826687	449,8425775	122,6812332	0,10796001	FALSE	39,6%	445,1712214	190,2088778	0,167384625	FALSE	39,2%
1778	1	923,1026411	Non-Empty	649,3537816	287,092754	0	0	TRUE	268,1168558	0	306,9293767	282,618876	0	0	TRUE	30,6%	375,010448	0	0	TRUE	40,6%
1778	2	923,1026411	Non-Empty	697,0483568	334,7873291	0	0	TRUE	315,811431	0	329,473122	303,3770322	0	0	TRUE	32,9%	269,2382703	0	0	TRUE	29,2%
1778	3	923,1026411	Non-Empty	606,5558914	301,2225581	0	0	TRUE	339,1743543	0	286,7001425	337,1067329	0	0	TRUE	36,5%	278,8539228	0	0	TRUE	30,2%
1779	1	1402,349176	Non-Empty	871,5275348	467,6014228	0	0	TRUE	465,4394482	0	468,6939823	422,3658091	0	0	TRUE	30,1%	451,8680679	0	0	TRUE	32,2%
1779	2	1402,349176	Non-Empty	882,0978741	468,1646262	0	0	TRUE	455,9955156	0	474,3785467	427,4884813	0	0	TRUE	30,5%	498,6130404	0	0	TRUE	35,6%
1779	3	1402,349176	Non-Empty	854,0161792	466,5831271	0	0	TRUE	480,9142123	0	459,2766471	552,4948857	0	0	TRUE	39,4%	451,8680679	0	0	TRUE	32,2%
1780	1	658,7879136	Non-Empty	474,0835131	265,5763313	0	0	TRUE	261,5356717	0	245,4987911	223,188414	0	0	TRUE	33,9%	269,8649285	0	0	TRUE	41,0%
1780	2	658,7879136	Non-Empty	355,7256453	176,3295265	0	0	TRUE	201,39993	0	184,2085065	167,4680524	0	0	TRUE	25,4%	174,6184831	0	0	TRUE	26,5%
1780	3	658,7879136	Non-Empty	442,3783219	216,8820558	0	0	TRUE	195,852312	0	229,080616	268,1314473	0	0	TRUE	40,7%	214,304502	0	0	TRUE	32,5%
1781	1	1424,989546	Empty	664,9686154	458,5993157	138,8287076	0,097424369	FALSE	453,8799146	0,064653994	453,8799146	457,8745461	150,8739435	0,105877228	FALSE	32,1%	469,2038747	126,4695941	0,088751243	FALSE	32,9%
1781	2	1424,989546	Empty	609,9754134	432,0533523	138,8287076	0,097424369	FALSE	455,7811897	0,064653994	455,7811897	420,0081163	150,8739435	0,105877228	FALSE	29,5%	451,8259535	126,4695941	0,088751243	FALSE	31,7%
1781	3	1424,989546	Empty	754,9952124	534,3368775	138,8287076	0,097424369	FALSE	515,3284412	0,064653994	515,3284412	547,1068831	150,8739435	0,105877228	FALSE	38,4%	503,9597173	126,4695941	0,088751243	FALSE	35,4%
1782	1	1157,749228	Empty	479,8727195	360,7089695	99,49808901	0,085940968	FALSE	353,6556601	0,087657529	353,6556601	336,5731335	147,9537149	0,127794268	FALSE	29,1%	381,9378897	125,4558455	0,108361848	FALSE	33,0%
1782	2	1157,749228	Empty	495,4581762	395,9600872	99,49808901	0,085940968	FALSE	408,5724388	0,087657529	408,5724388	347,5044613	147,9537149	0,127794268	FALSE	30,0%	370,0023306	125,4558455	0,108361848	FALSE	32,0%
1782	3	1157,749228	Empty	518,7496545	401,0801715	99,49808901	0,085940968	FALSE	395,5211292	0,087657529	395,5211292	473,6716333	147,9537149	0,127794268	FALSE	40,9%	405,8090078	125,4558455	0,108361848	FALSE	35,1%
1783	1	849,6661979	Non-Empty	598,7664883	257,5959074	0	0	TRUE	259,9367895	0	270,5837075	248,1671627	0	0	TRUE	29,2%	268,8817082	0	0	TRUE	31,6%
1783	2	849,6661979	Non-Empty	648,0229681	307,8045173	0	0	TRUE	311,0975295	0	292,8428038	268,5822011	0	0	TRUE	31,6%	279,6369765	0	0	TRUE	32,9%
1783	3	849,6661979	Non-Empty	633,4111303	284,2657731	0	0	TRUE	278,6318789	0	286,2396867	332,9168341	0	0	TRUE	39,2%	301,1475132	0	0	TRUE	35,4%
1784	1	832,3771172	Non-Empty	718,8348068	295,1387568	0	0	TRUE	270,8246245	0	294,6736789	278,7630915	0	0	TRUE	33,5%	262,8559317	0	0	TRUE	31,6%
1784	2	832,3771172	Non-Empty	650,7342556	262,8739011	0	0	TRUE	274,3954642	0	266,7570564	252,3537969	0	0	TRUE	30,3%	306,6652537	0	0	TRUE	36,8%
1784	3	832,3771172	Non-Empty	660,9538076	274,3644593	0															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1799	1	1344,667593	Empty	610,6909694	489,9415766	69,19018158	0,051455231	FALSE	476,9028577	0,054035852	476,9028577	412,2898223	128,8838858	0,095848139	FALSE	30,7%	438,7862671	96,71912696	0,071927908	FALSE	32,6%
1799	2	1344,667593	Empty	532,7813162	427,5217159	69,19018158	0,051455231	FALSE	429,9727896	0,054035852	429,9727896	359,69144	128,8838858	0,095848139	FALSE	26,7%	481,2494542	96,71912696	0,071927908	FALSE	35,8%
1799	3	1344,667593	Empty	524,3273287	427,2043001	69,19018158	0,051455231	FALSE	437,7919454	0,054035852	437,7919454	572,6863303	128,8838858	0,095848139	FALSE	42,6%	424,6318714	96,71912696	0,071927908	FALSE	31,6%
1800	1	803,1010665	Non-Empty	531,6472971	260,4907449	0	0	TRUE	259,0950606	0	264,8045371	241,7135693	0	0	TRUE	30,1%	218,1262156	0	0	TRUE	27,2%
1800	2	803,1010665	Non-Empty	546,5765638	288,1902194	0	0	TRUE	299,5647428	0	272,2405526	248,501164	0	0	TRUE	30,9%	327,1893234	0	0	TRUE	40,7%
1800	3	803,1010665	Non-Empty	534,1598092	254,4201022	0	0	TRUE	244,4412631	0	266,0559769	312,886332	0	0	TRUE	39,0%	257,7855275	0	0	TRUE	32,1%
1801	1	866,6674846	Empty	388,4626794	265,3567759	52,44541244	0,06051388	FALSE	245,7715169	0,169451467	245,7715169	284,1853035	66,26879635	0,076463924	FALSE	32,8%	271,4862	59,84852589	0,069055926	FALSE	31,3%
1801	2	866,6674846	Empty	333,9746354	243,2740658	52,44541244	0,06051388	FALSE	256,0941408	0,169451467	256,0941408	244,3238132	66,26879635	0,076463924	FALSE	28,2%	250,6026462	59,84852589	0,069055926	FALSE	28,9%
1801	3	866,6674846	Empty	454,7921036	358,036643	52,44541244	0,06051388	FALSE	364,8018269	0,169451467	364,8018269	338,158368	66,26879635	0,076463924	FALSE	39,0%	344,5786385	59,84852589	0,069055926	FALSE	39,8%
1802	1	968,9509857	Empty	427,9701898	321,4283632	60,86429254	0,062814625	FALSE	333,6378895	0,078512691	333,6378895	269,9940422	112,2986136	0,115897104	FALSE	27,9%	353,3821242	117,9279242	0,1217068	FALSE	36,5%
1802	2	968,9509857	Empty	480,0810271	352,0944965	60,86429254	0,062814625	FALSE	342,8593186	0,078512691	342,8593186	302,8692656	112,2986136	0,115897104	FALSE	31,3%	273,5861607	117,9279242	0,1217068	FALSE	28,2%
1802	3	968,9509857	Empty	417,1538272	295,428126	60,86429254	0,062814625	FALSE	292,4537776	0,078512691	292,4537776	396,0876779	112,2986136	0,115897104	FALSE	40,9%	341,9827008	117,9279242	0,1217068	FALSE	35,3%
1803	1	921,4178626	Non-Empty	593,3776051	266,7601215	0	0	TRUE	265,1192336	0	288,3167149	273,0932459	0	0	TRUE	29,6%	284,3882292	0	0	TRUE	30,9%
1803	2	921,4178626	Non-Empty	659,8142728	326,4094667	0	0	TRUE	317,9812562	0	320,59768	303,6697373	0	0	TRUE	33,0%	318,5148167	0	0	TRUE	34,6%
1803	3	921,4178626	Non-Empty	643,1557717	328,2482744	0	0	TRUE	338,3173728	0	312,5034677	344,6548794	0	0	TRUE	37,4%	318,5148167	0	0	TRUE	34,6%
1804	1	980,8069031	Non-Empty	555,8987807	292,5912338	0	0	TRUE	290,9928034	0	308,7483923	270,401693	0	0	TRUE	27,6%	277,3999322	0	0	TRUE	28,3%
1804	2	980,8069031	Non-Empty	654,4163739	380,1909326	0	0	TRUE	367,674608	0	363,4654552	318,3228703	0	0	TRUE	32,5%	356,6570557	0	0	TRUE	36,4%
1804	3	980,8069031	Non-Empty	555,6190983	308,0247367	0	0	TRUE	322,1394917	0	308,5930556	392,0823398	0	0	TRUE	40,0%	346,7499152	0	0	TRUE	35,4%
1805	1	1148,60931	Non-Empty	562,2768895	389,00805	0	0	TRUE	394,1398068	0	383,5563683	318,56558	0	0	TRUE	27,7%	408,3944213	0	0	TRUE	35,6%
1805	2	1148,60931	Non-Empty	579,886404	393,9667596	0	0	TRUE	386,4477116	0	395,5686731	328,5424887	0	0	TRUE	28,6%	408,3944213	0	0	TRUE	35,6%
1805	3	1148,60931	Non-Empty	541,6478055	365,6345002	0	0	TRUE	368,0217914	0	369,4842684	501,5012411	0	0	TRUE	43,7%	331,8204673	0	0	TRUE	28,9%
1806	1	799,3495436	Non-Empty	410,6464388	252,3627052	0	0	TRUE	257,9929566	0	254,2422778	218,8604876	0	0	TRUE	27,4%	263,5218276	0	0	TRUE	33,0%
1806	2	799,3495436	Non-Empty	461,2087403	289,5861195	0	0	TRUE	281,8774836	0	285,5467614	245,8084626	0	0	TRUE	30,8%	316,2261931	0	0	TRUE	39,6%
1806	3	799,3495436	Non-Empty	419,2363194	257,4007189	0	0	TRUE	259,4791034	0	259,5605044	334,6805935	0	0	TRUE	41,9%	219,601523	0	0	TRUE	27,5%
1807	1	1000,950332	Empty	452,8551691	329,3851975	35,10206689	0,03506874	FALSE	331,9055712	0,049677511	331,9055712	287,1994853	72,48976096	0,072420937	FALSE	28,7%	289,1634291	70,52581714	0,070458858	FALSE	28,9%
1807	2	1000,950332	Empty	483,4929403	347,6638295	35,10206689	0,03506874	FALSE	337,8250639	0,049677511	337,8250639	306,6298744	72,48976096	0,072420937	FALSE	30,6%	333,6501105	70,52581714	0,070458858	FALSE	33,3%
1807	3	1000,950332	Empty	442,5732579	323,9013045	35,10206689	0,03506874	FALSE	331,2196964	0,049677511	331,2196964	407,1209719	72,48976096	0,072420937	FALSE	40,7%	378,1367919	70,52581714	0,070458858	FALSE	37,8%
1808	1	1151,722069	Non-Empty	828,5475556	393,4620232	0	0	TRUE	385,2740865	0	392,3082868	364,1902569	0	0	TRUE	31,6%	401,7635126	0	0	TRUE	34,9%
1808	2	1151,722069	Non-Empty	830,7802236	388,8827424	0	0	TRUE	373,8828571	0	393,3654309	365,171632	0	0	TRUE	31,7%	294,6265759	0	0	TRUE	25,6%
1808	3	1151,722069	Non-Empty	773,0870775	369,3773037	0	0	TRUE	392,5651257	0	366,0483516	422,3601805	0	0	TRUE	36,7%	455,3319809	0	0	TRUE	39,5%
1809	1	1426,742436	Empty	580,4354416	449,4161782	73,50909979	0,051522334	FALSE	440,2866732	0,184467934	440,2866732	380,7241416	198,4912101	0,139121964	FALSE	26,7%	485,6995526	156,0477835	0,109373479	FALSE	34,0%
1809	2	1426,742436	Empty	629,4892073	537,8820142	73,50909979	0,051522334	FALSE	568,1645796	0,184467934	568,1645796	412,899904	198,4912101	0,139121964	FALSE	28,9%	455,3433305	156,0477835	0,109373479	FALSE	31,9%
1809	3	1426,742436	Empty	582,4870621	439,4442432	73,50909979	0,051522334	FALSE	418,2911828	0,184467934	418,2911828	633,1183901	198,4912101	0,139121964	FALSE	44,4%	485,6995526	156,0477835	0,109373479	FALSE	34,0%
1810	1	869,9511444	Non-Empty	556,0905658	256,3688298	0	0	TRUE	254,246448	0	274,4415498	262,1627497	0	0	TRUE	30,1%	231,2528359	0	0	TRUE	26,6%
1810	2	869,9511444	Non-Empty	570,9317332	271,2099973	0	0	TRUE	269,0876154	0	281,7659556	269,159454	0	0	TRUE	30,9%	253,2769155	0	0	TRUE	29,1%
1810	3	869,9511444	Non-Empty	635,7269076	342,3723173	0	0	TRUE	346,6170811	0	313,7436391	338,6289407	0	0	TRUE	38,9%	385,4213931	0	0	TRUE	44,3%
1811	1	1408,953761	Empty	646,744832	469,4759805	41,19078653	0,029235017	FALSE	464,6863442	0,062524728	464,6863442	405,3441584	124,9615242	0,088691004	FALSE	28,8%	464,6549637	78,6009219	0,055786729	FALSE	33,0%
1811	2	1408,953761	Empty	660,6620259	497,8374292	41,19078653	0,029235017	FALSE	507,4920479	0,062524728	507,4920479	414,0666916	124,9615242	0,088691004	FALSE	29,4%	554,5881825	78,6009219	0,055786729	FALSE	39,4%
1811	3	1408,953761	Empty	618,9845489	441,6403511	41,19078653	0,029235017	FALSE	436,7753687	0,062524728	436,7753687	589,5429108	124,9615242	0,088691004	FALSE	41,8%	389,7106147	78,6009219	0,055786729	FALSE	27,7%
1812	1	771,2102618	Non-Empty	440,7722606	220,8440339	0	0	TRUE	247,0404884	0	225,1799315	208,1111349	0	0	TRUE	27,0%	253,9350862	0	0	TRUE	32,9%
1812	2	771,2102618	Non-Empty	539,4262085	281,0551583	0	0	TRUE	268,8087894	0	275,5798573	254,690711	0	0	TRUE	33,0%	225,7200766	0	0	TRUE	29,3%
1812	3	771,2102618	Non-Empty	529,3858365	269,3110696	0	0	TRUE	255,3609839	0	270,4504731	308,408416	0	0	TRUE	40,0%	291,555099	0	0	TRUE	37,8%
1813	1	1034,111388	Non-Empty	689,356078	331,5764615	0	0	TRUE	312,2555122	0	347,8289128	319,0488984	0	0	TRUE	30,9%	308,0331794	0	0	TRUE	29,8%
1813	2	1034,111388	Non-Empty	681,8536171	351,2323511	0	0	TRUE	359,0697524	0	344,0433905	315,5765972	0	0	TRUE	30,5%	352,0379193	0	0	TRUE	34,0%
1813	3	1034,111388	Non-Empty	678,2776946	351,3025754	0	0	TRUE	362,7861234	0	342,2390846	399,4858924	0	0	TRUE	38,6%	374,0402893	0	0	TRUE	36,2%
1814	1	1217,725469	Non-Empty	752,4145904	422,2114507	0	0	TRUE	415,4770708	0	418,7290874	398,6101548	0	0	TRUE	32,7%	304,4313673	0	0	TRUE	25,0%
1814	2	1217,725469	Non-Empty	629,3717475	319,3717475	0	0	TRUE	332,8405073	0	350,2540499	333,4251793	0	0	TRUE	27,4%	498,1604193	0	0	TRUE	40,9%
1814	3	1217,725469	Non-Empty	806,3454107	476,1422711	0	0	TRUE	469,4078912	0	448,7423231	485,6901352	0	0	TRUE	39,9%	415,1336827	0	0	TRUE	34,1%
1815	1	1495,443494	Empty	736,5010923	512,2436354	167,9200099	0,112287767	FALSE	516,6107719	0,085469781	516,6107719	476,1353044	204,3823163	0,136670036	FALSE	31,8%	464,1031532	204,2166114	0,13655923	FALSE	31,0%
1815	2	1495,443494	Empty	703,9994031	491,5858227	167,9200099	0,112287767	FALSE	507,7968443	0,085469781	507,7968443	455,1235207	204,3823163	0,136670036	FALSE	30,4%	532,8591759				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1830	1	1771,778991	Empty	797,1829348	607,9259417	177,5961567	0,100236066	FALSE	609,5056613	0,018656945	609,5056613	548,2207386	237,3013598	0,133933951	FALSE	30,9%	794,2457545	294,9491416	0,166470617	FALSE	44,8%
1830	2	1771,778991	Empty	770,7813803	577,4419752	177,5961567	0,100236066	FALSE	574,9392827	0,018656945	574,9392827	530,0644547	237,3013598	0,133933951	FALSE	29,9%	509,1318939	294,9491416	0,166470617	FALSE	28,7%
1830	3	1771,778991	Empty	776,3248137	586,4110739	177,5961567	0,100236066	FALSE	587,3340468	0,018656945	587,3340468	693,4937976	237,3013598	0,133933951	FALSE	39,1%	468,4013424	294,9491416	0,166470617	FALSE	26,4%
1831	1	1082,587574	Non-Empty	615,1865646	397,0969265	0	0	TRUE	387,289559	0	390,0550065	334,9666648	0	0	TRUE	30,9%	292,9354612	0	0	TRUE	27,1%
1831	2	1082,587574	Non-Empty	530,9309513	335,264719	0	0	TRUE	347,8807573	0	336,6332875	289,0898147	0	0	TRUE	26,7%	458,5076783	0	0	TRUE	42,4%
1831	3	1082,587574	Non-Empty	561,3168696	350,2259283	0	0	TRUE	347,4172575	0	355,8992798	458,5310944	0	0	TRUE	42,4%	331,1444343	0	0	TRUE	30,6%
1832	1	790,0245987	Non-Empty	498,2417393	281,7824965	0	0	TRUE	297,8812283	0	264,5853472	228,0838748	0	0	TRUE	28,9%	320,009964	0	0	TRUE	40,5%
1832	2	790,0245987	Non-Empty	505,2540263	268,6880717	0	0	TRUE	264,6800917	0	268,3091388	231,2939422	0	0	TRUE	29,3%	250,0077844	0	0	TRUE	31,6%
1832	3	790,0245987	Non-Empty	484,202757	239,5540305	0	0	TRUE	227,4632786	0	257,1301127	330,6467817	0	0	TRUE	41,9%	220,0068503	0	0	TRUE	27,8%
1833	1	1640,00966	Empty	768,6747438	584,8331625	139,9972826	0,085363694	FALSE	578,9325604	0,050458565	578,9325604	500,9804178	200,8565685	0,122472796	FALSE	30,5%	678,624687	242,4643614	0,147843252	FALSE	41,4%
1833	2	1640,00966	Empty	745,978252	556,8450182	139,9972826	0,085363694	FALSE	545,6527635	0,050458565	545,6527635	486,188078	200,8565685	0,122472796	FALSE	29,6%	565,5205725	242,4643614	0,147843252	FALSE	34,5%
1833	3	1640,00966	Empty	659,1796019	498,3314795	139,9972826	0,085363694	FALSE	515,4243362	0,050458565	515,4243362	652,8411644	200,8565685	0,122472796	FALSE	39,8%	395,8644007	242,4643614	0,147843252	FALSE	24,1%
1834	1	1351,953878	Non-Empty	827,5525005	448,3893622	0	0	TRUE	480,82525	0	432,5166324	377,092945	0	0	TRUE	27,9%	485,3167769	0	0	TRUE	35,9%
1834	2	1351,953878	Non-Empty	941,941857	491,9661606	0	0	TRUE	453,5894903	0	492,3017206	429,2170329	0	0	TRUE	31,7%	502,6495189	0	0	TRUE	37,2%
1834	3	1351,953878	Non-Empty	817,2565994	411,5983557	0	0	TRUE	417,5391381	0	427,1355254	545,6439005	0	0	TRUE	40,4%	363,9875827	0	0	TRUE	26,9%
1835	1	746,7670274	Non-Empty	513,2690368	305,8032174	0	0	TRUE	300,8861381	0	282,9951593	247,3063135	0	0	TRUE	33,1%	253,6189904	0	0	TRUE	34,0%
1835	2	746,7670274	Non-Empty	414,5433984	218,5168422	0	0	TRUE	225,0390263	0	228,5619561	199,7377443	0	0	TRUE	26,7%	218,3941307	0	0	TRUE	29,2%
1835	3	746,7670274	Non-Empty	426,6008128	222,4469678	0	0	TRUE	220,841863	0	235,209912	299,7229697	0	0	TRUE	40,1%	274,7539063	0	0	TRUE	36,8%
1836	1	870,4140687	Non-Empty	513,3034058	312,19052	0	0	TRUE	291,9854412	0	316,1663385	279,8872743	0	0	TRUE	32,2%	264,2328423	0	0	TRUE	30,4%
1836	2	870,4140687	Non-Empty	443,4045946	257,1614082	0	0	TRUE	251,8260288	0	273,1125599	241,7737775	0	0	TRUE	27,8%	295,319059	0	0	TRUE	33,9%
1836	3	870,4140687	Non-Empty	456,4294894	301,0621405	0	0	TRUE	326,6025988	0	281,1351703	348,7530169	0	0	TRUE	40,1%	310,8621674	0	0	TRUE	35,7%
1837	1	879,8539053	Non-Empty	508,0655246	301,0109821	0	0	TRUE	286,1904234	0	306,9044238	258,6404095	0	0	TRUE	29,4%	286,9088822	0	0	TRUE	32,6%
1837	2	879,8539053	Non-Empty	517,0194134	313,4574171	0	0	TRUE	302,1294047	0	312,3131516	263,1985568	0	0	TRUE	29,9%	296,4725116	0	0	TRUE	33,7%
1837	3	879,8539053	Non-Empty	431,4709186	265,385506	0	0	TRUE	291,5340772	0	260,6363299	358,014939	0	0	TRUE	40,7%	296,4725116	0	0	TRUE	33,7%
1838	1	1347,155933	Empty	546,5537437	428,2943531	111,7196526	0,082930008	FALSE	438,6703128	0,04336398	438,6703128	390,2160244	149,7979812	0,111195725	FALSE	29,0%	420,0808824	119,9331232	0,089026905	FALSE	31,2%
1838	2	1347,155933	Empty	570,1332774	437,1850983	111,7196526	0,082930008	FALSE	432,8722696	0,04336398	432,8722696	407,0508042	149,7979812	0,111195725	FALSE	30,2%	463,5375254	119,9331232	0,089026905	FALSE	34,4%
1838	3	1347,155933	Empty	616,3749633	481,6764819	111,7196526	0,082930008	FALSE	475,6133509	0,04336398	475,6133509	549,8891046	149,7979812	0,111195725	FALSE	40,8%	463,5375254	119,9331232	0,089026905	FALSE	34,4%
1839	1	974,3379287	Non-Empty	576,0909255	354,166769	0	0	TRUE	318,7481796	0	365,9455258	311,5877355	0	0	TRUE	32,0%	355,2273698	0	0	TRUE	36,5%
1839	2	974,3379287	Non-Empty	476,5814208	315,9975176	0	0	TRUE	341,9191816	0	302,7349172	257,7664725	0	0	TRUE	26,5%	294,3312493	0	0	TRUE	30,2%
1839	3	974,3379287	Non-Empty	481,1822839	304,1736421	0	0	TRUE	313,6705675	0	305,6574858	404,9837207	0	0	TRUE	41,6%	324,7793096	0	0	TRUE	33,3%
1840	1	844,4537769	Empty	374,1420147	258,2049555	28,36502703	0,033589792	FALSE	238,273505	0,195417504	238,273505	248,2232547	72,97037932	0,086411336	FALSE	29,4%	275,1590958	69,42330361	0,082210898	FALSE	32,6%
1840	2	844,4537769	Empty	366,4911073	287,7526384	28,36502703	0,033589792	FALSE	305,0197781	0,195417504	305,0197781	243,1472861	72,97037932	0,086411336	FALSE	28,8%	246,6943618	69,42330361	0,082210898	FALSE	29,2%
1840	3	844,4537769	Empty	391,8374809	298,496183	28,36502703	0,033589792	FALSE	301,1604938	0,195417504	301,1604938	353,083236	72,97037932	0,086411336	FALSE	41,8%	322,6003192	69,42330361	0,082210898	FALSE	38,2%
1841	1	880,9043507	Non-Empty	486,0420421	315,1844448	0	0	TRUE	306,0510498	0	313,4205193	280,9236125	0	0	TRUE	31,9%	333,0248155	0	0	TRUE	37,8%
1841	2	880,9043507	Non-Empty	395,2729971	246,4115005	0	0	TRUE	259,2742063	0	254,88879	228,460727	0	0	TRUE	25,9%	300,7966076	0	0	TRUE	34,1%
1841	3	880,9043507	Non-Empty	484,7619184	319,3084054	0	0	TRUE	315,5790946	0	312,5950413	371,5200112	0	0	TRUE	42,2%	247,0829276	0	0	TRUE	28,0%
1842	1	1139,489397	Non-Empty	650,4241138	373,187105	0	0	TRUE	362,5178004	0	382,1958766	343,9723189	0	0	TRUE	30,2%	420,5258487	0	0	TRUE	36,9%
1842	2	1139,489397	Non-Empty	642,2690485	366,1883973	0	0	TRUE	356,6754503	0	377,4038766	339,6595687	0	0	TRUE	29,8%	312,003049	0	0	TRUE	27,4%
1842	3	1139,489397	Non-Empty	646,4993467	400,1138942	0	0	TRUE	420,2961458	0	379,8896432	455,8575089	0	0	TRUE	40,0%	406,9604988	0	0	TRUE	35,7%
1843	1	1062,200925	Non-Empty	743,6521514	377,68483	0	0	TRUE	387,2162306	0	360,9033001	341,8433703	0	0	TRUE	32,2%	358,0452556	0	0	TRUE	33,7%
1843	2	1062,200925	Non-Empty	684,2132467	303,9488244	0	0	TRUE	299,183124	0	332,0568874	314,5203867	0	0	TRUE	29,6%	346,1104138	0	0	TRUE	32,6%
1843	3	1062,200925	Non-Empty	760,8316931	380,5672707	0	0	TRUE	375,8015704	0	369,2407376	405,8371681	0	0	TRUE	38,2%	358,0452556	0	0	TRUE	33,7%
1844	1	1601,774233	Empty	717,3490063	547,0811654	108,02744	0,067442363	FALSE	533,4527897	0,065780418	533,4527897	478,8901812	163,4768505	0,102059858	FALSE	29,9%	439,7027307	185,711447	0,115941088	FALSE	27,5%
1844	2	1601,774233	Empty	701,0184677	541,9413261	108,02744	0,067442363	FALSE	539,5036497	0,065780418	539,5036497	467,9881872	163,4768505	0,102059858	FALSE	29,2%	596,7394203	185,711447	0,115941088	FALSE	37,3%
1844	3	1601,774233	Empty	653,3251551	512,7517419	108,02744	0,067442363	FALSE	528,8177939	0,065780418	528,8177939	654,8958649	163,4768505	0,102059858	FALSE	40,9%	565,3320823	185,711447	0,115941088	FALSE	35,3%
1845	1	1164,67171	Non-Empty	629,3694674	353,8684723	0	0	TRUE	356,1596813	0	366,8624055	334,6173175	0	0	TRUE	28,7%	406,2808291	0	0	TRUE	34,9%
1845	2	1164,67171	Non-Empty	673,4581826	387,5325437	0	0	TRUE	379,3991088	0	392,5619238	358,0579964	0	0	TRUE	30,7%	338,5673576	0	0	TRUE	29,1%
1845	3	1164,67171	Non-Empty	695,2206723	423,270694	0	0	TRUE	429,1129199	0	405,2473807	471,9963962	0	0	TRUE	40,5%	419,8235234	0	0	TRUE	36,0%
1846	1	1143,05337	Non-Empty	823,7419618	423,5769124	0	0	TRUE	398,8679856	0	414,8990951	370,4029269	0	0	TRUE	32,4%	437,7651204	0	0	TRUE	38,3%
1846	2	1143,05337	Non-Empty	735,0034989	370,5548508	0	0	TRUE	381,5623254	0	370,2036569	330,5008848	0	0	TRUE	28,9%	328,3238403	0	0	TRUE	28,7%
1846	3	1143,05337	Non-Empty	710,6762774	348,9216069	0	0	TRUE	362,623059	0	357,9506181	442,1495583	0	0	TRUE	38,7%	376,9644093	0	0	TRUE	33,0%
1847	1	1884,80537	Empty	831,6554628	551,566389	168,187699															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1861	1	1646,580346	Empty	721,6552684	511,0296576	94,85278295	0,057605924	FALSE	512,4631631	0,067634046	512,4631631	493,6029483	128,5064372	0,078044438	FALSE	30,0%	435,30285	149,4944989	0,090790892	FALSE	26,4%
1861	2	1646,580346	Empty	706,2820103	516,7414912	94,85278295	0,057605924	FALSE	539,2600884	0,067634046	539,2600884	483,087837	128,5064372	0,078044438	FALSE	29,3%	605,6387478	149,4944989	0,090790892	FALSE	36,8%
1861	3	1646,580346	Empty	854,8204158	618,8091968	94,85278295	0,057605924	FALSE	594,857094	0,067634046	594,857094	669,8895603	128,5064372	0,078044438	FALSE	40,7%	605,6387478	149,4944989	0,090790892	FALSE	36,8%
1862	1	1751,345087	Empty	814,7278024	618,4577256	114,767838	0,065531253	FALSE	615,6751507	0,029556862	615,6751507	553,9723729	173,6500485	0,099152389	FALSE	31,6%	435,9723729	252,5323527	0,144193371	FALSE	41,5%
1862	2	1751,345087	Empty	725,4065136	531,8810194	114,767838	0,065531253	FALSE	531,8430271	0,029556862	531,8430271	493,2385596	173,6500485	0,099152389	FALSE	28,2%	391,2579451	252,5323527	0,144193371	FALSE	22,3%
1862	3	1751,345087	Empty	791,673277	601,0063424	114,767838	0,065531253	FALSE	603,8269097	0,029556862	603,8269097	704,134155	173,6500485	0,099152389	FALSE	40,2%	633,4652444	252,5323527	0,144193371	FALSE	36,2%
1863	1	774,9155753	Non-Empty	458,954928	231,3845701	0	0	TRUE	239,7876563	0	239,8453667	221,2364038	0	0	TRUE	28,5%	255,0355058	0	0	TRUE	32,9%
1863	2	774,9155753	Non-Empty	522,6077596	281,5466503	0	0	TRUE	276,4589853	0	273,1097153	251,9198603	0	0	TRUE	32,5%	235,41739	0	0	TRUE	30,4%
1863	3	774,9155753	Non-Empty	501,2732204	261,9843549	0	0	TRUE	258,6689337	0	261,9604933	301,7593113	0	0	TRUE	38,9%	284,4626795	0	0	TRUE	36,7%
1864	1	1181,253083	Non-Empty	663,479922	351,0852265	0	0	TRUE	369,6201172	0	360,497985	320,0334413	0	0	TRUE	27,1%	411,447703	0	0	TRUE	34,8%
1864	2	1181,253083	Non-Empty	810,4822781	463,0496915	0	0	TRUE	446,5466912	0	440,3708665	390,940892	0	0	TRUE	33,1%	291,9951441	0	0	TRUE	24,7%
1864	3	1181,253083	Non-Empty	700,0796414	367,1181648	0	0	TRUE	365,0862744	0	380,3842313	470,2787495	0	0	TRUE	39,8%	477,8102357	0	0	TRUE	40,4%
1865	1	1245,966531	Empty	551,5637672	419,6410458	137,4986602	0,110355019	FALSE	415,5253894	0,103458138	415,5253894	369,6275524	207,5523862	0,166579423	FALSE	29,7%	410,758197	170,7759538	0,137063035	FALSE	33,0%
1865	2	1245,966531	Empty	558,0611879	444,0354906	137,4986602	0,110355019	FALSE	457,8168583	0,103458138	457,8168583	373,9817646	207,5523862	0,166579423	FALSE	30,0%	410,758197	170,7759538	0,137063035	FALSE	33,0%
1865	3	1245,966531	Empty	519,7627706	382,2899944	137,4986602	0,110355019	FALSE	372,6242832	0,103458138	372,6242832	502,3572138	207,5523862	0,166579423	FALSE	40,3%	424,4501369	170,7759538	0,137063035	FALSE	34,1%
1866	1	1139,237686	Empty	557,2603368	401,9731109	122,9104375	0,107888318	FALSE	392,661714	0,129096389	392,661714	364,6882994	171,1561528	0,150237439	FALSE	32,0%	341,7713058	150,7354542	0,13231256	FALSE	30,0%
1866	2	1139,237686	Empty	495,2875644	372,3771269	122,9104375	0,107888318	FALSE	395,4425185	0,129096389	395,4425185	324,1314116	171,1561528	0,150237439	FALSE	28,5%	403,9115432	150,7354542	0,13231256	FALSE	35,5%
1866	3	1139,237686	Empty	524,6172718	364,887448	122,9104375	0,107888318	FALSE	351,1334534	0,129096389	351,1334534	450,4179748	171,1561528	0,150237439	FALSE	39,5%	393,5548369	150,7354542	0,13231256	FALSE	34,5%
1867	1	1367,514686	Non-Empty	656,1447817	429,3798146	7,503672465	0,005487087	FALSE	405,6892588	0,090380351	433,7781566	393,4898761	101,9220343	0,074530852	FALSE	28,8%	459,9822125	69,50415449	0,050825161	FALSE	33,6%
1867	2	1367,514686	Non-Empty	671,503389	497,1187912	7,503672465	0,005487087	FALSE	525,8086047	0,090380351	504,6224637	402,7004294	101,9220343	0,074530852	FALSE	29,4%	435,1183092	69,50415449	0,050825161	FALSE	31,8%
1867	3	1367,514686	Non-Empty	649,0897494	461,0160802	7,503672465	0,005487087	FALSE	436,0168224	0,090380351	429,1140657	571,3243805	101,9220343	0,074530852	FALSE	41,8%	472,4141642	69,50415449	0,050825161	FALSE	34,5%
1868	1	1359,112061	Empty	661,4968539	512,8252784	148,6715756	0,109388755	FALSE	563,8011766	0,248983754	563,8011766	405,8745635	255,6222904	0,188080363	FALSE	29,9%	501,5770702	159,9197838	0,117664899	FALSE	36,9%
1868	2	1359,112061	Empty	670,1218415	443,9196747	148,6715756	0,109388755	FALSE	417,3649816	0,248983754	417,3649816	411,1665963	255,6222904	0,188080363	FALSE	30,3%	372,1378262	159,9197838	0,117664899	FALSE	27,4%
1868	3	1359,112061	Empty	626,435787	402,3671081	148,6715756	0,109388755	FALSE	377,9459029	0,248983754	377,9459029	542,0709012	255,6222904	0,188080363	FALSE	39,9%	485,3971647	159,9197838	0,117664899	FALSE	35,7%
1869	1	787,0609428	Non-Empty	614,1513454	315,2934404	0	0	TRUE	313,896361	0	287,8182923	269,3324947	0	0	TRUE	34,2%	277,2601048	0	0	TRUE	35,2%
1869	2	787,0609428	Non-Empty	504,2051683	209,5385017	0	0	TRUE	212,3326605	0	236,2926852	221,1162392	0	0	TRUE	28,1%	241,4846074	0	0	TRUE	30,7%
1869	3	787,0609428	Non-Empty	561,0869056	262,2290007	0	0	TRUE	260,8319213	0	262,9499654	296,6122089	0	0	TRUE	37,7%	268,3162305	0	0	TRUE	34,1%
1870	1	1368,313407	Non-Empty	718,1880935	408,388564	0	0	TRUE	403,0002101	0	430,7193433	373,5483742	0	0	TRUE	27,3%	488,6833595	31,04681195	0,02268984	FALSE	35,7%
1870	2	1368,313407	Non-Empty	846,4527225	538,2200225	0	0	TRUE	534,3984981	0	507,6435603	440,2621558	0	0	TRUE	32,2%	374,6572423	31,04681195	0,02268984	FALSE	27,4%
1870	3	1368,313407	Non-Empty	716,9061173	421,70482	0	0	TRUE	430,9146983	0	429,950503	554,5028765	0	0	TRUE	40,5%	504,9728048	31,04681195	0,02268984	FALSE	36,9%
1871	1	1717,97981	Empty	772,3629394	619,0963215	77,33513544	0,04501516	FALSE	627,128827	0,064145675	627,128827	519,6767561	176,7547008	0,102885203	FALSE	30,2%	566,3669704	130,0644865	0,075707809	FALSE	33,0%
1871	2	1717,97981	Empty	687,3142128	530,9186419	77,33513544	0,04501516	FALSE	535,8221945	0,064145675	535,8221945	462,4525626	176,7547008	0,102885203	FALSE	26,9%	566,3669704	130,0644865	0,075707809	FALSE	33,0%
1871	3	1717,97981	Empty	742,2000285	567,9648463	77,33513544	0,04501516	FALSE	555,0287886	0,064145675	555,0287886	735,8504914	176,7547008	0,102885203	FALSE	42,8%	585,2458694	130,0644865	0,075707809	FALSE	34,1%
1872	1	1937,912639	Empty	903,9262232	651,9143389	149,1914774	0,076985657	FALSE	654,2748554	0,014079654	654,2748554	582,8500308	218,2557855	0,112624161	FALSE	30,1%	587,9060816	213,1997347	0,110015142	FALSE	30,3%
1872	2	1937,912639	Empty	927,5794974	669,8566813	149,1914774	0,076985657	FALSE	666,5062659	0,014079654	666,5062659	598,1016202	218,2557855	0,112624161	FALSE	30,9%	762,1004761	213,1997347	0,110015142	FALSE	39,3%
1872	3	1937,912639	Empty	869,5241209	616,1416191	149,1914774	0,076985657	FALSE	617,1315179	0,014079654	617,1315179	756,9609882	218,2557855	0,112624161	FALSE	39,1%	587,9060816	213,1997347	0,110015142	FALSE	30,3%
1873	1	784,7936759	Non-Empty	473,3926197	248,4964898	0	0	TRUE	237,2899595	0	260,5549559	248,9960865	0	0	TRUE	31,7%	208,2105671	0	0	TRUE	26,5%
1873	2	784,7936759	Non-Empty	449,7285828	225,9035934	0	0	TRUE	215,7682035	0	247,5302871	236,5492245	0	0	TRUE	30,1%	264,2672582	0	0	TRUE	33,7%
1873	3	784,7936759	Non-Empty	502,741272	310,3935927	0	0	TRUE	331,7355129	0	276,7084329	299,248365	0	0	TRUE	38,1%	312,3158506	0	0	TRUE	39,8%
1874	1	1553,820565	Non-Empty	947,0949076	589,1850028	0	0	TRUE	579,0825024	0	566,6068482	468,8264616	0	0	TRUE	30,2%	544,6381363	0	0	TRUE	35,1%
1874	2	1553,820565	Non-Empty	888,4687264	547,2699282	0	0	TRUE	553,8785344	0	531,5332822	439,8056054	0	0	TRUE	28,3%	432,5067553	0	0	TRUE	27,8%
1874	3	1553,820565	Non-Empty	761,6791446	417,3656344	0	0	TRUE	420,8595286	0	455,680435	645,1884984	0	0	TRUE	41,5%	576,6756737	0	0	TRUE	37,1%
1875	1	1288,959629	Empty	648,4506332	436,5689373	140,5526436	0,109074282	FALSE	412,6083102	0,22019758	412,6083102	408,5681839	216,4984028	0,168011126	FALSE	31,7%	438,6708525	160,2764517	0,12438072	FALSE	34,0%
1875	2	1288,959629	Empty	585,2388401	444,6861966	140,5526436	0,109074282	FALSE	492,0546217	0,22019758	492,0546217	368,7404373	216,4984028	0,168011126	FALSE	28,6%	424,9623884	160,2764517	0,12438072	FALSE	33,0%
1875	3	1288,959629	Empty	618,6693621	407,3404955	140,5526436	0,109074282	FALSE	383,9326975	0,22019758	383,9326975	511,2870082	216,4984028	0,168011126	FALSE	39,7%	424,9623884	160,2764517	0,12438072	FALSE	33,0%
1876	1	1349,907234	Non-Empty	849,8198795	468,6611693	0	0	TRUE	464,3309819	0	462,4985212	416,2793011	0	0	TRUE	30,8%	414,1760832	0	0	TRUE	30,7%
1876	2	1349,907234	Non-Empty	799,9620701	429,1841849	0	0	TRUE	435,2348225	0	435,3643441	391,8567445	0	0	TRUE	29,0%	444,8557931	0	0	TRUE	33,0%
1876	3	1349,907234	Non-Empty	830,610853	452,061																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1892	1	884,2062004	Non-Empty	449,323193	227,7251756	0	0	TRUE	229,2127866	0	255,747534	234,8237853	0	0	TRUE	26,6%	333,0127248	0	0	TRUE	37,7%
1892	2	884,2062004	Non-Empty	522,6925935	306,4387959	0	0	TRUE	313,2706268	0	297,5082165	273,1678561	0	0	TRUE	30,9%	241,1471456	0	0	TRUE	27,3%
1892	3	884,2062004	Non-Empty	581,4472992	350,0422289	0	0	TRUE	341,7227871	0	330,95045	376,2145591	0	0	TRUE	42,5%	310,04633	0	0	TRUE	35,1%
1893	1	787,0570055	Non-Empty	313,7439065	157,7219528	0	0	TRUE	157,7219528	0	157,7219528	157,7219528	0	0	TRUE	20,0%	157,7219528	0	0	TRUE	20,0%
1893	2	787,0570055	Non-Empty	628,916132	239,090358	0	0	TRUE	221,0471595	0	260,1932382	240,802246	0	0	TRUE	30,6%	238,5021229	0	0	TRUE	30,3%
1893	3	787,0570055	Non-Empty	622,7776193	234,222741	0	0	TRUE	217,4504382	0	257,6536317	297,1076036	0	0	TRUE	37,7%	238,5021229	0	0	TRUE	30,3%
1894	1	1760,752895	Empty	819,0750556	645,3538329	166,5575545	0,094594508	FALSE	662,7653097	0,097550482	662,7653097	532,5613168	279,3500705	0,158653762	FALSE	30,2%	574,9397209	236,9716664	0,134585419	FALSE	32,7%
1894	2	1760,752895	Empty	791,9368958	592,0984578	166,5575545	0,094594508	FALSE	583,3927193	0,097550482	583,3927193	514,9161279	279,3500705	0,158653762	FALSE	29,2%	628,8403198	236,9716664	0,134585419	FALSE	35,7%
1894	3	1760,752895	Empty	723,1390428	523,3006048	166,5575545	0,094594508	FALSE	514,5948663	0,097550482	514,5948663	713,2754507	279,3500705	0,158653762	FALSE	40,5%	556,9728547	236,9716664	0,134585419	FALSE	31,6%
1895	1	1301,81414	Non-Empty	894,1508525	452,6427968	0	0	TRUE	436,8664229	0	451,3431863	406,6764	0	0	TRUE	31,2%	339,014099	0	0	TRUE	26,0%
1895	2	1301,81414	Non-Empty	878,053983	450,2256056	0	0	TRUE	448,1289099	0	443,2179216	399,3552451	0	0	TRUE	30,7%	501,7408665	0	0	TRUE	38,5%
1895	3	1301,81414	Non-Empty	806,8043499	398,9457378	0	0	TRUE	416,8188074	0	407,2530323	495,7824951	0	0	TRUE	38,1%	461,0591746	0	0	TRUE	35,4%
1896	1	1422,282707	Empty	597,5606089	452,5510958	145,0095131	0,101955478	FALSE	481,0175277	0,108493501	481,0175277	404,1107797	193,4498292	0,136013627	FALSE	28,4%	456,6962821	140,8643268	0,099041018	FALSE	32,1%
1896	2	1422,282707	Empty	670,0361675	483,8127368	145,0095131	0,101955478	FALSE	471,0652512	0,108493501	471,0652512	453,1236398	193,4498292	0,136013627	FALSE	31,9%	456,6962821	140,8643268	0,099041018	FALSE	32,1%
1896	3	1422,282707	Empty	675,1137657	485,9188744	145,0095131	0,101955478	FALSE	470,1999281	0,108493501	470,1999281	565,0482875	193,4498292	0,136013627	FALSE	39,7%	508,8901429	140,8643268	0,099041018	FALSE	35,8%
1897	1	859,8419869	Non-Empty	677,3143064	318,7689371	0	0	TRUE	315,7774418	0	302,3006426	279,7529981	0	0	TRUE	32,5%	244,1526629	0	0	TRUE	28,4%
1897	2	859,8419869	Non-Empty	627,0740537	276,1813329	0	0	TRUE	280,842486	0	279,8772854	259,0021279	0	0	TRUE	30,1%	265,3833293	0	0	TRUE	30,9%
1897	3	859,8419869	Non-Empty	622,1152485	264,8917169	0	0	TRUE	263,2220591	0	277,6640589	321,0868609	0	0	TRUE	37,3%	350,3059947	0	0	TRUE	40,7%
1898	1	1689,047071	Empty	733,1823419	560,0562494	158,6453551	0,093925953	FALSE	559,7622667	0,032464694	559,7622667	505,9017797	205,2842385	0,121538495	FALSE	30,0%	617,9440505	205,9265603	0,121918781	FALSE	36,6%
1898	2	1689,047071	Empty	746,515972	566,7562413	158,6453551	0,093925953	FALSE	559,8286204	0,032464694	559,8286204	515,1020929	205,2842385	0,121538495	FALSE	30,5%	556,1496454	205,9265603	0,121918781	FALSE	32,9%
1898	3	1689,047071	Empty	727,8450867	562,2345806	158,6453551	0,093925953	FALSE	569,4561842	0,032464694	569,4561842	668,0431987	205,2842385	0,121538495	FALSE	39,6%	514,9533754	205,9265603	0,121918781	FALSE	30,5%
1899	1	870,9583832	Non-Empty	503,0342189	288,2060336	0	0	TRUE	314,3598836	0	274,8733521	250,9440713	0	0	TRUE	28,8%	307,9145799	0	0	TRUE	35,4%
1899	2	870,9583832	Non-Empty	540,8641386	283,5963407	0	0	TRUE	267,3105783	0	295,5447825	269,8159367	0	0	TRUE	31,0%	290,3194611	0	0	TRUE	33,3%
1899	3	870,9583832	Non-Empty	550,0061319	299,1560089	0	0	TRUE	289,2879212	0	300,5402485	350,1983751	0	0	TRUE	40,2%	272,7243422	0	0	TRUE	31,3%
1900	1	1311,311551	Non-Empty	887,2106503	456,1793137	0	0	TRUE	446,6777205	0	451,6515474	401,5004721	0	0	TRUE	30,6%	487,9298794	0	0	TRUE	37,2%
1900	2	1311,311551	Non-Empty	891,1410086	463,0160551	0	0	TRUE	456,4208451	0	453,6523714	403,279126	0	0	TRUE	30,8%	457,4342619	0	0	TRUE	34,9%
1900	3	1311,311551	Non-Empty	797,5491223	392,1161821	0	0	TRUE	408,2129853	0	406,007632	506,5319528	0	0	TRUE	38,6%	365,9474095	0	0	TRUE	27,9%
1901	1	1375,394104	Empty	526,477957	420,6467202	70,70536942	0,051407352	FALSE	422,5505483	0,011680917	422,5505483	367,6605633	138,4117185	0,100634224	FALSE	26,7%	458,4647015	176,1683322	0,128085711	FALSE	33,3%
1901	2	1375,394104	Empty	600,3995074	490,7787755	70,70536942	0,051407352	FALSE	488,8931085	0,011680917	488,8931085	419,2829313	138,4117185	0,100634224	FALSE	30,5%	560,3457463	176,1683322	0,128085711	FALSE	40,7%
1901	3	1375,394104	Empty	571,721835	463,9686088	70,70536942	0,051407352	FALSE	463,9504476	0,011680917	463,9504476	588,4506098	138,4117185	0,100634224	FALSE	42,8%	356,5836567	176,1683322	0,128085711	FALSE	25,9%
1902	1	1212,564838	Empty	555,0669439	397,416963	130,0657634	0,107264997	FALSE	387,5769496	0,071981756	387,5769496	355,9527294	168,267427	0,138769839	FALSE	29,4%	431,1341645	197,0087893	0,162472788	FALSE	35,6%
1902	2	1212,564838	Empty	612,0750305	456,3608721	130,0657634	0,107264997	FALSE	448,4566813	0,071981756	448,4566813	392,5108135	168,267427	0,138769839	FALSE	32,4%	363,7694513	197,0087893	0,162472788	FALSE	30,0%
1902	3	1212,564838	Empty	488,8527658	358,7870024	130,0657634	0,107264997	FALSE	376,5312066	0,071981756	376,5312066	464,1012946	168,267427	0,138769839	FALSE	38,3%	417,6612218	197,0087893	0,162472788	FALSE	34,4%
1903	1	1231,09519	Non-Empty	671,0297428	385,74963	0	0	TRUE	407,3555967	0	383,9201453	339,812342	0	0	TRUE	27,6%	420,3739673	0	0	TRUE	34,1%
1903	2	1231,09519	Non-Empty	750,6837379	440,2273858	0	0	TRUE	436,657113	0	429,4930482	380,149467	0	0	TRUE	30,9%	420,3739673	0	0	TRUE	34,1%
1903	3	1231,09519	Non-Empty	730,0399476	405,1181743	0	0	TRUE	387,0824804	0	417,6819966	511,133381	0	0	TRUE	41,5%	390,3472554	0	0	TRUE	31,7%
1904	1	868,6010554	Non-Empty	590,9227412	332,5676672	0	0	TRUE	318,717935	0	320,3736623	294,6719461	0	0	TRUE	33,9%	316,6774681	0	0	TRUE	36,5%
1904	2	868,6010554	Non-Empty	464,5179021	232,4790142	0	0	TRUE	244,9454681	0	251,8422311	231,6383931	0	0	TRUE	26,7%	235,2461192	0	0	TRUE	27,1%
1904	3	868,6010554	Non-Empty	546,6764373	303,5543739	0	0	TRUE	304,9376522	0	296,3851619	342,2907161	0	0	TRUE	39,4%	316,6774681	0	0	TRUE	36,5%
1905	1	1136,072292	Non-Empty	744,3395341	383,8144495	0	0	TRUE	393,8301232	0	376,2181628	354,4333548	0	0	TRUE	31,2%	439,7699194	0	0	TRUE	38,7%
1905	2	1136,072292	Non-Empty	705,877544	328,4062731	0	0	TRUE	321,4757605	0	356,7779764	336,118847	0	0	TRUE	29,6%	342,0432707	0	0	TRUE	30,1%
1905	3	1136,072292	Non-Empty	797,4774886	423,8515692	0	0	TRUE	420,7664081	0	403,0761526	445,5200901	0	0	TRUE	39,2%	354,2591018	0	0	TRUE	31,2%
1906	1	897,2199172	Non-Empty	752,6466588	295,7131821	0	0	TRUE	274,541913	0	306,3223268	291,3282882	0	0	TRUE	32,5%	374,7880667	0	0	TRUE	41,8%
1906	2	897,2199172	Non-Empty	730,0518257	299,5098535	0	0	TRUE	304,730089	0	297,1263758	282,5824658	0	0	TRUE	31,5%	261,2159253	0	0	TRUE	29,1%
1906	3	897,2199172	Non-Empty	721,8080556	301,9968816	0	0	TRUE	317,9479152	0	293,7712146	323,3091632	0	0	TRUE	36,0%	261,2159253	0	0	TRUE	29,1%
1907	1	970,8452037	Empty	385,8721188	262,6947908	82,05462337	0,08451875	FALSE	271,0479515	0,046988671	271,0479515	270,9293537	79,27019404	0,081650704	FALSE	27,9%	353,0346195	127,105521	0,130922541	FALSE	36,4%
1907	2	970,8452037	Empty	473,0558186	333,9904152	82,05462337	0,08451875	FALSE	326,4555698	0,046988671	326,4555698	332,1428991	79,27019404	0,081650704	FALSE	34,2%	297,8729602	127,105521	0,130922541	FALSE	30,7%
1907	3	970,8452037	Empty	506,5088712	374,1599977	82,05462337	0,08451875	FALSE	373,3416823	0,046988671	373,3416823	367,7729509	79,27019404	0,081650704	FALSE	37,9%	319,9376239	127,105521	0,130922541	FALSE	33,0%
1908	1	957,1188806	Non-Empty	702,9782804	349,9595796	0	0	TRUE	353,8586682	0	331,7929841	315,8601946	0	0	TRUE	33,0%	367,2665472	0	0	TRUE	38,4%
1908	2	957,1188806	Non-Empty	592,2400063	272,0352399	0	0	TRUE	308,7482628	0	279,5265295	266,1035893	0	0	TRUE	27,8%	322,74939	0	0	TRUE	33,7%
1908	3	957,1188806	Non-Empty	732,653962	335,1240611	0	0	TRUE													

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1923	1	1032,800464	Non-Empty	722,6140988	310,7533922	0	0	TRUE	315,9827082	0	326,7483058	306,4094329	0	0	TRUE	29,7%	380,5054342	0	0	TRUE	36,8%
1923	2	1032,800464	Non-Empty	816,8995221	386,3766404	0	0	TRUE	372,9437812	0	369,3818531	346,3891996	0	0	TRUE	33,5%	423,9917696	0	0	TRUE	41,1%
1923	3	1032,800464	Non-Empty	744,5569113	335,6704318	0	0	TRUE	343,8739749	0	336,6703054	380,0018318	0	0	TRUE	36,8%	228,3032605	0	0	TRUE	22,1%
1924	1	1078,823873	Empty	528,9153511	374,0463623	41,98177872	0,038914395	FALSE	349,0802305	0,169724083	349,0802305	337,6469534	102,0695487	0,094611874	FALSE	31,3%	404,5589525	58,82965947	0,054531292	FALSE	37,5%
1924	2	1078,823873	Empty	452,2504658	348,7936879	41,98177872	0,038914395	FALSE	375,2397671	0,169724083	375,2397671	288,7059179	102,0695487	0,094611874	FALSE	26,8%	331,9458071	58,82965947	0,054531292	FALSE	30,8%
1924	3	1078,823873	Empty	487,3666275	355,9838231	41,98177872	0,038914395	FALSE	354,5038757	0,169724083	354,5038757	452,4710019	102,0695487	0,094611874	FALSE	41,9%	342,3191136	58,82965947	0,054531292	FALSE	31,7%
1925	1	853,942376	Non-Empty	580,1175988	300,0176142	0	0	TRUE	331,4734982	0	276,9675926	256,1322505	0	0	TRUE	30,0%	281,6192942	0	0	TRUE	33,0%
1925	2	853,942376	Non-Empty	606,2355078	272,8017204	0	0	TRUE	250,9238015	0	289,4371581	267,6637724	0	0	TRUE	31,3%	290,7037876	0	0	TRUE	34,0%
1925	3	853,942376	Non-Empty	602,2568751	281,1230414	0	0	TRUE	271,5450763	0	287,5376254	330,1463532	0	0	TRUE	38,7%	281,6192942	0	0	TRUE	33,0%
1926	1	1189,22886	Non-Empty	772,4393598	408,3196058	0	0	TRUE	403,2482037	0	405,3202224	375,9203684	0	0	TRUE	31,6%	337,9913603	0	0	TRUE	28,4%
1926	2	1189,22886	Non-Empty	745,6973004	374,5950887	0	0	TRUE	362,5412288	0	391,2879267	362,9059036	0	0	TRUE	30,5%	400,582353	0	0	TRUE	33,7%
1926	3	1189,22886	Non-Empty	748,2372558	406,3141659	0	0	TRUE	423,4394278	0	392,6207113	450,4025883	0	0	TRUE	37,9%	450,6551471	0	0	TRUE	37,9%
1927	1	1312,006661	Empty	614,0631044	482,6363231	44,96471533	0,034271713	FALSE	480,9460462	0,026788957	480,9460462	417,8397977	98,46487119	0,075049063	FALSE	31,8%	376,7147838	139,589885	0,106394189	FALSE	28,7%
1927	2	1312,006661	Empty	489,5083982	369,3779865	44,96471533	0,034271713	FALSE	378,9840792	0,026788957	378,9840792	333,0864346	98,46487119	0,075049063	FALSE	25,4%	454,6557736	139,589885	0,106394189	FALSE	34,7%
1927	3	1312,006661	Empty	597,6446713	459,9923513	44,96471533	0,034271713	FALSE	452,0765356	0,026788957	452,0765356	561,0804287	98,46487119	0,075049063	FALSE	42,8%	480,6361035	139,589885	0,106394189	FALSE	36,6%
1928	1	1049,545597	Non-Empty	765,002785	371,1368651	0	0	TRUE	355,3657205	0	367,659256	332,7185	0	0	TRUE	31,7%	371,9908443	0	0	TRUE	35,4%
1928	2	1049,545597	Non-Empty	685,8153501	341,4912905	0	0	TRUE	375,2620242	0	329,6018868	298,2779396	0	0	TRUE	28,4%	358,705457	0	0	TRUE	34,2%
1928	3	1049,545597	Non-Empty	733,0118414	336,91745	0	0	TRUE	318,9178519	0	352,2844537	418,5491569	0	0	TRUE	39,9%	318,8492951	0	0	TRUE	30,4%
1929	1	819,6034396	Non-Empty	507,816189	260,5351845	0	0	TRUE	263,1569717	0	265,2168239	250,0783518	0	0	TRUE	30,5%	250,8990121	0	0	TRUE	30,6%
1929	2	819,6034396	Non-Empty	500,9670179	257,8554132	0	0	TRUE	264,6466003	0	261,6397119	246,7054199	0	0	TRUE	30,1%	292,7155141	0	0	TRUE	35,7%
1929	3	819,6034396	Non-Empty	560,5286077	301,2128418	0	0	TRUE	291,7998676	0	292,7469038	322,8196679	0	0	TRUE	39,4%	275,9889133	0	0	TRUE	33,7%
1930	1	1042,972043	Non-Empty	785,0161394	409,5462252	0	0	TRUE	408,3608537	0	378,0312967	335,9868057	0	0	TRUE	32,2%	351,2048717	0	0	TRUE	33,7%
1930	2	1042,972043	Non-Empty	724,7523893	337,889095	0	0	TRUE	325,3103433	0	349,0107678	310,1939286	0	0	TRUE	29,7%	351,2048717	0	0	TRUE	33,7%
1930	3	1042,972043	Non-Empty	656,0571427	295,5367232	0	0	TRUE	309,3008464	0	315,9299789	396,7913091	0	0	TRUE	38,0%	340,5622999	0	0	TRUE	32,7%
1931	1	1693,413966	Empty	711,1078591	501,6083316	204,8144129	0,120947634	FALSE	503,9640511	0,036909758	503,9640511	533,7904822	249,1821747	0,147147821	FALSE	31,5%	614,0951746	310,174989	0,183165484	FALSE	36,3%
1931	2	1693,413966	Empty	719,8627778	513,9453533	204,8144129	0,120947634	FALSE	519,883176	0,036909758	519,883176	540,3623294	249,1821747	0,147147821	FALSE	31,9%	521,0504512	310,174989	0,183165484	FALSE	30,8%
1931	3	1693,413966	Empty	898,0090707	677,8602815	204,8144129	0,120947634	FALSE	669,5667393	0,036909758	669,5667393	619,2611548	249,1821747	0,147147821	FALSE	36,6%	558,2683406	310,174989	0,183165484	FALSE	33,0%
1932	1	1077,252763	Non-Empty	647,4359918	381,7393381	0	0	TRUE	368,2427783	0	380,3206659	344,7987592	0	0	TRUE	32,0%	330,6419371	0	0	TRUE	30,7%
1932	2	1077,252763	Non-Empty	566,6284479	318,2472905	0	0	TRUE	322,0662269	0	332,8522223	301,7638628	0	0	TRUE	28,0%	394,6371508	0	0	TRUE	36,6%
1932	3	1077,252763	Non-Empty	619,7886045	377,2661343	0	0	TRUE	386,9437578	0	364,0798748	430,6901409	0	0	TRUE	40,0%	351,973675	0	0	TRUE	32,7%
1933	1	1148,806296	Empty	601,4257233	394,4160586	97,99202253	0,085298995	FALSE	399,7798673	0,04155905	399,7798673	373,3702601	119,037821	0,103618705	FALSE	32,5%	392,2753207	124,7234636	0,10856788	FALSE	34,1%
1933	2	1148,806296	Empty	573,5913607	364,7745631	97,99202253	0,085298995	FALSE	368,331239	0,04155905	368,331239	356,0904486	119,037821	0,103618705	FALSE	31,0%	336,2359892	124,7234636	0,10856788	FALSE	29,3%
1933	3	1148,806296	Empty	610,9096327	389,6156746	97,99202253	0,085298995	FALSE	380,6951899	0,04155905	380,6951899	419,3455876	119,037821	0,103618705	FALSE	36,5%	420,2949864	124,7234636	0,10856788	FALSE	36,6%
1934	1	795,8894665	Non-Empty	555,1706613	242,2195808	0	0	TRUE	232,461131	0	259,0811717	255,0605889	0	0	TRUE	32,0%	284,246238	0	0	TRUE	35,7%
1934	2	795,8894665	Non-Empty	535,3348346	248,0009188	0	0	TRUE	263,8596336	0	249,8243979	245,9474675	0	0	TRUE	30,9%	292,3675591	0	0	TRUE	36,7%
1934	3	795,8894665	Non-Empty	614,9618624	305,6689669	0	0	TRUE	299,568702	0	286,983897	294,8814101	0	0	TRUE	37,1%	219,2756693	0	0	TRUE	27,6%
1935	1	1237,478234	Non-Empty	666,9672691	456,6980493	0	0	TRUE	458,2806706	0	440,6527513	377,27023	0	0	TRUE	30,5%	416,459021	0	0	TRUE	33,7%
1935	2	1237,478234	Non-Empty	577,6649931	378,8701481	0	0	TRUE	391,9271441	0	381,6524143	326,7563716	0	0	TRUE	26,4%	380,7625335	0	0	TRUE	30,8%
1935	3	1237,478234	Non-Empty	628,4014946	401,9100363	0	0	TRUE	387,2704191	0	415,1730682	533,4516322	0	0	TRUE	43,1%	440,2566793	0	0	TRUE	35,6%
1936	1	898,4360556	Non-Empty	559,95139	358,3321312	0	0	TRUE	358,8243575	0	334,3237488	286,5341865	0	0	TRUE	31,9%	342,702413	0	0	TRUE	38,1%
1936	2	898,4360556	Non-Empty	464,0069353	262,7495726	0	0	TRUE	263,603695	0	277,0392945	237,4381993	0	0	TRUE	26,4%	277,8668213	0	0	TRUE	30,9%
1936	3	898,4360556	Non-Empty	480,8121854	277,3543518	0	0	TRUE	276,0080031	0	287,0730123	374,4636698	0	0	TRUE	41,7%	277,8668213	0	0	TRUE	30,9%
1937	1	1525,166372	Non-Empty	895,3786777	492,070754	0	0	TRUE	511,0823584	0	489,0903777	438,1736604	0	0	TRUE	28,7%	623,1862596	0	0	TRUE	40,9%
1937	2	1525,166372	Non-Empty	963,422371	522,4283722	0	0	TRUE	503,7539015	0	526,2584682	471,4723695	0	0	TRUE	30,9%	442,790237	0	0	TRUE	29,0%
1937	3	1525,166372	Non-Empty	933,3239074	510,6672458	0	0	TRUE	510,3301121	0	509,8175262	615,5203422	0	0	TRUE	40,4%	459,1898755	0	0	TRUE	30,1%
1938	1	1219,977898	Non-Empty	694,2395757	401,8584896	0	0	TRUE	397,505924	0	406,3969042	357,3950581	0	0	TRUE	29,3%	424,3401384	0	0	TRUE	34,8%
1938	2	1219,977898	Non-Empty	731,112473	423,8798754	0	0	TRUE	404,6757983	0	427,9817171	376,3772535	0	0	TRUE	30,9%	358,0369918	0	0	TRUE	29,3%
1938	3	1219,977898	Non-Empty	658,7114109	394,239533	0	0	TRUE	417,7961756	0	385,5992766	486,2055863	0	0	TRUE	39,9%	437,6007677	0	0	TRUE	35,9%
1939	1	1020,420868	Non-Empty	743,7796011	319,652395	0	0	TRUE	331,465887	0	325,983258	303,3727532	0	0	TRUE	29,7%	306,1262604	0	0	TRUE	30,0%
1939	2	1020,420868	Non-Empty	805,766759	366,8900023	0	0	TRUE	363,9539436	0	353,1509508	328,6560693	0	0	TRUE	32,2%	357,1473038	0	0	TRUE	35,0%
1939	3	1020,420868	Non-Empty	778,6966019	333,8784707	0	0	TRUE	325,0010375	0	341,2866593	388,3920455	0	0	TRUE	38,1%	357,1473038	0	0	TRUE	35,0%
1940	1	774,3240254	Non-Empty	485,5428969	238,1663712	0	0	TRUE	231,3974298	0	251,2905391	237,0375164	0	0	TRUE	30,6%	258,1080085	0	0	TRUE	33,3%
1940	2	774,3240254	Non-Empty	498,4233851	252,1351145																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1954	1	1288,205855	Non-Empty	771,3732934	434,970375	0	0	TRUE	433,8466717	0	433,1598737	369,4901227	0	0	TRUE	28,7%	477,1132796	0	0	TRUE	37,0%
1954	2	1288,205855	Non-Empty	806,3953303	479,7734246	0	0	TRUE	488,430734	0	452,8262807	386,2657835	0	0	TRUE	30,0%	477,1132796	0	0	TRUE	37,0%
1954	3	1288,205855	Non-Empty	716,2748765	373,4620553	0	0	TRUE	365,9284492	0	402,2197005	532,4499487	0	0	TRUE	41,3%	333,9792957	0	0	TRUE	25,9%
1955	1	774,6607677	Non-Empty	407,6054847	228,5970735	0	0	TRUE	246,7941682	0	231,1068046	196,2925696	0	0	TRUE	25,3%	215,1835466	0	0	TRUE	27,8%
1955	2	774,6607677	Non-Empty	523,1391076	321,1893287	0	0	TRUE	316,4450557	0	296,6128084	251,9306623	0	0	TRUE	32,5%	335,6863327	0	0	TRUE	43,3%
1955	3	774,6607677	Non-Empty	435,5326931	224,8743655	0	0	TRUE	211,4215439	0	246,9411546	326,4375357	0	0	TRUE	42,1%	223,7908884	0	0	TRUE	28,9%
1956	1	1128,139325	Non-Empty	603,9134236	378,9748742	0	0	TRUE	383,5055994	0	375,0513617	334,8586308	0	0	TRUE	29,7%	320,4941263	0	0	TRUE	28,4%
1956	2	1128,139325	Non-Empty	582,0831892	350,3485518	0	0	TRUE	348,0831892	0	361,4940225	322,7541766	0	0	TRUE	28,6%	461,5115419	0	0	TRUE	40,9%
1956	3	1128,139325	Non-Empty	630,550536	398,8158986	0	0	TRUE	396,550536	0	391,5939403	470,5265172	0	0	TRUE	41,7%	346,1336564	0	0	TRUE	30,7%
1957	1	1247,885114	Empty	556,2409131	401,371156	117,9880382	0,094550401	FALSE	411,5129516	0,062220991	411,5129516	359,4888895	159,8703046	0,128112999	FALSE	28,8%	403,3568046	116,0023895	0,09295919	FALSE	32,3%
1957	2	1247,885114	Empty	619,1425912	452,9732474	117,9880382	0,094550401	FALSE	451,8154564	0,062220991	451,8154564	400,1411571	159,8703046	0,128112999	FALSE	32,1%	466,3813054	116,0023895	0,09295919	FALSE	37,4%
1957	3	1247,885114	Empty	567,5362683	393,540711	117,9880382	0,094550401	FALSE	384,5567064	0,062220991	384,5567064	488,2550678	159,8703046	0,128112999	FALSE	39,1%	378,1470044	116,0023895	0,09295919	FALSE	30,3%
1958	1	1315,187358	Empty	539,5984862	432,8046994	127,1647723	0,096689473	FALSE	424,338337	0,089950907	424,338337	404,1301081	133,486105	0,101495885	FALSE	30,7%	358,6874613	178,9287518	0,136048108	FALSE	27,3%
1958	2	1315,187358	Empty	507,2803057	403,5323477	127,1647723	0,096689473	FALSE	398,1118139	0,089950907	398,1118139	379,9255374	133,486105	0,101495885	FALSE	28,9%	464,9652276	178,9287518	0,136048108	FALSE	35,4%
1958	3	1315,187358	Empty	563,2908393	478,8503111	127,1647723	0,096689473	FALSE	492,7372072	0,089950907	492,7372072	531,1317126	133,486105	0,101495885	FALSE	40,4%	491,5346692	178,9287518	0,136048108	FALSE	37,4%
1959	1	1332,532291	Empty	461,5717931	381,3234933	76,50340023	0,057412042	FALSE	400,8157929	0,081367245	400,8157929	322,5393424	135,2875511	0,101526659	FALSE	24,2%	453,9395718	211,3765575	0,158627719	FALSE	34,1%
1959	2	1332,532291	Empty	610,3922318	500,9054825	76,50340023	0,057412042	FALSE	491,1593327	0,081367245	491,1593327	426,5327994	135,2875511	0,101526659	FALSE	32,0%	336,7938759	211,3765575	0,158627719	FALSE	25,3%
1959	3	1332,532291	Empty	559,790065	450,3033157	76,50340023	0,057412042	FALSE	440,5571659	0,081367245	440,5571659	583,4601497	135,2875511	0,101526659	FALSE	43,8%	541,7988438	211,3765575	0,158627719	FALSE	40,7%
1960	1	937,1240163	Non-Empty	671,2163561	364,0909869	0	0	TRUE	360,1404416	0	340,6240936	309,7813964	0	0	TRUE	33,1%	365,7069332	0	0	TRUE	39,0%
1960	2	937,1240163	Non-Empty	576,9820971	274,31706	0	0	TRUE	274,8268468	0	292,8027634	266,2901732	0	0	TRUE	28,4%	319,9935665	0	0	TRUE	34,1%
1960	3	937,1240163	Non-Empty	598,4500346	298,7159693	0	0	TRUE	302,1567279	0	303,6971593	361,0524466	0	0	TRUE	38,5%	251,4235166	0	0	TRUE	26,8%
1961	1	1522,796579	Empty	620,9453038	491,1720348	79,88178383	0,052457291	FALSE	481,747727	0,055700889	481,747727	435,6194448	145,7314592	0,095699886	FALSE	28,6%	420,0818148	134,8526622	0,088555927	FALSE	27,6%
1961	2	1522,796579	Empty	628,0125171	510,3928296	79,88178383	0,052457291	FALSE	513,1221035	0,055700889	513,1221035	440,5773943	145,7314592	0,095699886	FALSE	28,9%	630,1227222	134,8526622	0,088555927	FALSE	41,4%
1961	3	1522,796579	Empty	634,8856418	521,2317144	79,88178383	0,052457291	FALSE	527,9267482	0,055700889	527,9267482	646,5997396	145,7314592	0,095699886	FALSE	42,5%	472,5920417	134,8526622	0,088555927	FALSE	31,0%
1962	1	1890,799892	Empty	835,9193257	590,7265367	128,5795909	0,068002749	FALSE	575,9087272	0,084916891	575,9087272	579,5889727	168,2499334	0,088983469	FALSE	30,7%	537,1590603	155,0689304	0,082012344	FALSE	28,4%
1962	2	1890,799892	Empty	799,9699891	594,336574	128,5795909	0,068002749	FALSE	619,0723052	0,084916891	619,0723052	554,6631149	168,2499334	0,088983469	FALSE	29,3%	709,0499596	155,0689304	0,082012344	FALSE	37,5%
1962	3	1890,799892	Empty	946,0355161	705,7396981	128,5795909	0,068002749	FALSE	695,8188597	0,084916891	695,8188597	756,5476046	168,2499334	0,088983469	FALSE	40,0%	644,5908723	155,0689304	0,082012344	FALSE	34,1%
1963	1	1850,41412	Empty	872,4639358	675,99852	155,7198236	0,08415404	FALSE	659,9668353	0,052732152	659,9668353	593,261008	229,8944355	0,124239452	FALSE	32,1%	744,1882873	230,7054621	0,124677746	FALSE	40,2%
1963	2	1850,41412	Empty	731,9209294	571,8687062	155,7198236	0,08415404	FALSE	592,2502142	0,052732152	592,2502142	497,6940943	229,8944355	0,124239452	FALSE	26,9%	603,3959087	230,7054621	0,124677746	FALSE	32,6%
1963	3	1850,41412	Empty	787,3304481	602,5468937	155,7198236	0,08415404	FALSE	598,1970704	0,052732152	598,1970704	759,4590175	229,8944355	0,124239452	FALSE	41,0%	502,8299239	230,7054621	0,124677746	FALSE	27,2%
1964	1	1780,883091	Empty	772,2870226	590,3375589	120,7852601	0,067823239	FALSE	595,5346023	0,018849885	595,5346023	522,4675212	188,6552978	0,105933567	FALSE	29,3%	514,0693459	197,0534731	0,110649303	FALSE	28,9%
1964	2	1780,883091	Empty	785,2303731	596,5190356	120,7852601	0,067823239	FALSE	594,9542051	0,018849885	594,9542051	531,2239551	188,6552978	0,105933567	FALSE	29,8%	716,0251604	197,0534731	0,110649303	FALSE	40,2%
1964	3	1780,883091	Empty	784,8052165	594,0264967	120,7852601	0,067823239	FALSE	590,3942838	0,018849885	590,3942838	727,1916149	188,6552978	0,105933567	FALSE	40,8%	550,7885849	197,0534731	0,110649303	FALSE	30,9%
1965	1	1490,312951	Empty	628,4297437	451,1042871	156,1219945	0,104757859	FALSE	457,289096	0,022175407	457,289096	425,981597	196,5684546	0,131897434	FALSE	28,6%	466,8450207	256,9676581	0,1724253	FALSE	31,3%
1965	2	1490,312951	Empty	724,8395626	539,6468174	156,1219945	0,104757859	FALSE	537,9643377	0,022175407	537,9643377	491,3330687	196,5684546	0,131897434	FALSE	33,0%	430,9338652	256,9676581	0,1724253	FALSE	28,9%
1965	3	1490,312951	Empty	687,5744407	499,5618461	156,1219945	0,104757859	FALSE	495,0595169	0,022175407	495,0595169	572,9982849	196,5684546	0,131897434	FALSE	38,4%	592,5340647	256,9676581	0,1724253	FALSE	39,8%
1966	1	1511,17117	Empty	626,780392	492,9195341	107,6327962	0,071224755	FALSE	490,1551663	0,021461198	490,1551663	438,7490072	165,3855951	0,109442	FALSE	29,0%	357,481352	237,5217732	0,157177279	FALSE	23,7%
1966	2	1511,17117	Empty	638,92617	507,8092104	107,6327962	0,071224755	FALSE	507,7887409	0,021461198	507,7887409	447,2511048	165,3855951	0,109442	FALSE	29,6%	503,7237232	237,5217732	0,157177279	FALSE	33,3%
1966	3	1511,17117	Empty	638,7540779	510,4424252	107,6327962	0,071224755	FALSE	513,2272626	0,021461198	513,2272626	625,1710578	165,3855951	0,109442	FALSE	41,4%	649,9660945	237,5217732	0,157177279	FALSE	43,0%
1967	1	1681,740797	Empty	798,8284254	588,6912087	132,2687305	0,078649891	FALSE	566,0856285	0,074060509	566,0856285	540,4541845	187,2519784	0,111344137	FALSE	32,1%	554,6166459	190,61941	0,113346486	FALSE	33,0%
1967	2	1681,740797	Empty	692,5192124	523,5130277	132,2687305	0,078649891	FALSE	542,0384807	0,074060509	542,0384807	468,5297797	187,2519784	0,111344137	FALSE	27,9%	465,1623482	190,61941	0,113346486	FALSE	27,7%
1967	3	1681,740797	Empty	752,9880727	569,5365614	132,2687305	0,078649891	FALSE	573,6166879	0,074060509	573,6166879	672,756833	187,2519784	0,111344137	FALSE	40,0%	661,9618032	190,61941	0,113346486	FALSE	39,4%
1968	1	934,4156394	Non-Empty	660,1217797	272,5053295	0	0	TRUE	281,0511732	0	290,5588498	285,8080168	0	0	TRUE	30,6%	250,6968789	0	0	TRUE	26,8%
1968	2	934,4156394	Non-Empty	709,7244414	306,2674293	0	0	TRUE	298,9727111	0	312,3919309	307,2841123	0	0	TRUE	32,9%	319,0687549	0	0	TRUE	34,1%
1968	3	934,4156394	Non-Empty	753,0563001	355,6428807	0	0	TRUE	354,3917552	0	331,4648587	341,3235103	0	0	TRUE	36,5%	364,6500056	0	0	TRUE	39,0%
1969	1	2060,369671	Empty	926,318608	708,0356844	191,4548145	0,092922555	FALSE	697,7527607	0,045607868	697,7527607	634,5559903	272,9932534	0,13249722	FALSE	30,8%	824,1478682	333,4555084	0,161842563	FALSE	40,0%
1969	2	2060,369671	Empty	866,7276585	675,272844	191,4548145															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
1985	1	906,4157623	Non-Empty	670,4329151	321,7944364	0	0	TRUE	303,9594419	0	320,0350601	300,2340966	0	0	TRUE	33,1%	332,7349001	0	0	TRUE	36,7%
1985	2	906,4157623	Non-Empty	618,2964737	271,9729473	0	0	TRUE	256,452905	0	295,1474259	276,886291	0	0	TRUE	30,5%	263,8931966	0	0	TRUE	29,1%
1985	3	906,4157623	Non-Empty	610,096826	312,6483786	0	0	TRUE	346,0034154	0	291,2332763	329,2953747	0	0	TRUE	36,3%	309,7876656	0	0	TRUE	34,2%
1986	1	1907,320437	Empty	827,1417675	608,4450301	122,3702088	0,06415818	FALSE	624,5967351	0,044863108	624,5967351	539,0906114	191,7246275	0,100520407	FALSE	28,3%	665,3443385	141,784476	0,074336998	FALSE	34,9%
1986	2	1907,320437	Empty	924,3809468	673,0432629	122,3702088	0,06415818	FALSE	656,5540215	0,044863108	656,5540215	602,4663599	191,7246275	0,100520407	FALSE	31,6%	620,9880493	141,784476	0,074336998	FALSE	32,6%
1986	3	1907,320437	Empty	860,3430503	625,8321441	122,3702088	0,06415818	FALSE	626,1696804	0,044863108	626,1696804	765,7634658	191,7246275	0,100520407	FALSE	40,1%	620,9880493	141,784476	0,074336998	FALSE	32,6%
1987	1	590,4553282	Non-Empty	391,1151027	160,6692785	0	0	TRUE	171,4277794	0	175,7412425	183,33665	0	0	TRUE	31,1%	241,873267	0	0	TRUE	41,0%
1987	2	590,4553282	Non-Empty	409,3277442	166,8876017	0	0	TRUE	165,6517843	0	183,9247982	191,873893	0	0	TRUE	32,5%	199,1897493	0	0	TRUE	33,7%
1987	3	590,4553282	Non-Empty	513,6254563	262,8984479	0	0	TRUE	253,3757645	0	230,7892875	215,2447852	0	0	TRUE	36,5%	149,3923119	0	0	TRUE	25,3%
1988	1	1441,342354	Non-Empty	883,7812433	525,4311991	0	0	TRUE	536,4198482	0	499,6674146	434,8301952	0	0	TRUE	30,2%	529,4727014	0	0	TRUE	36,7%
1988	2	1441,342354	Non-Empty	849,8206921	474,9252217	0	0	TRUE	469,3684445	0	480,4669836	418,1212265	0	0	TRUE	29,0%	426,5196761	0	0	TRUE	29,6%
1988	3	1441,342354	Non-Empty	815,7564985	440,9859331	0	0	TRUE	435,5540611	0	461,2079557	588,3909322	0	0	TRUE	40,8%	485,3499763	0	0	TRUE	33,7%
1989	1	1465,04401	Empty	582,1316472	430,3968059	88,23481654	0,060226734	FALSE	429,5936859	0,062012936	429,5936859	425,8490044	93,82089853	0,064039645	FALSE	29,1%	449,6669734	181,8090965	0,124098044	FALSE	30,7%
1989	2	1465,04401	Empty	616,0127858	462,3951783	88,23481654	0,060226734	FALSE	459,7092922	0,062012936	459,7092922	450,6342041	93,82089853	0,064039645	FALSE	30,8%	536,6992908	181,8090965	0,124098044	FALSE	36,6%
1989	3	1465,04401	Empty	719,694741	572,2520258	88,23481654	0,060226734	FALSE	575,7410319	0,062012936	575,7410319	588,5608015	93,82089853	0,064039645	FALSE	40,2%	478,6777458	181,8090965	0,124098044	FALSE	32,7%
1990	1	1136,374533	Non-Empty	681,0557758	384,2341358	0	0	TRUE	392,9602314	0	376,9740632	335,7286776	0	0	TRUE	29,5%	409,6233783	0	0	TRUE	36,0%
1990	2	1136,374533	Non-Empty	703,9959999	385,528784	0	0	TRUE	372,6093036	0	389,6718037	347,0371363	0	0	TRUE	30,5%	449,2643504	0	0	TRUE	39,5%
1990	3	1136,374533	Non-Empty	667,9659646	366,6116137	0	0	TRUE	370,8049985	0	369,7286665	453,6087196	0	0	TRUE	39,9%	277,4868047	0	0	TRUE	24,4%
1991	1	1066,898062	Non-Empty	662,7751644	417,3518109	0	0	TRUE	419,1944111	0	390,9521382	325,0950002	0	0	TRUE	30,5%	324,1209302	0	0	TRUE	30,4%
1991	2	1066,898062	Non-Empty	573,7739182	331,2182605	0	0	TRUE	335,9285565	0	338,4528452	281,439381	0	0	TRUE	26,4%	418,6562015	0	0	TRUE	39,2%
1991	3	1066,898062	Non-Empty	572,1468406	318,3279906	0	0	TRUE	311,7750944	0	337,4903786	460,3636807	0	0	TRUE	43,1%	324,1209302	0	0	TRUE	30,4%
1992	1	1174,883864	Non-Empty	741,723842	395,6588859	0	0	TRUE	411,020602	0	385,7353514	361,1843122	0	0	TRUE	30,7%	440,5814489	0	0	TRUE	37,5%
1992	2	1174,883864	Non-Empty	699,3771774	351,0342347	0	0	TRUE	364,1179642	0	363,7128619	340,5634962	0	0	TRUE	29,0%	352,4651591	0	0	TRUE	30,0%
1992	3	1174,883864	Non-Empty	818,062861	428,1907341	0	0	TRUE	399,7452975	0	425,4356504	473,1360553	0	0	TRUE	40,3%	381,8372557	0	0	TRUE	32,5%
1993	1	1116,285061	Empty	497,0280921	371,5082925	129,3259306	0,115853858	FALSE	369,6984469	0,017246652	369,6984469	356,4997559	140,253675	0,125643243	FALSE	31,9%	461,0742643	245,6444309	0,220055288	FALSE	41,3%
1993	2	1116,285061	Empty	467,7150647	346,4023566	129,3259306	0,115853858	FALSE	348,7996025	0,017246652	348,7996025	335,4746121	140,253675	0,125643243	FALSE	30,1%	376,1395314	245,6444309	0,220055288	FALSE	33,7%
1993	3	1116,285061	Empty	522,6717661	398,3744118	129,3259306	0,115853858	FALSE	397,7870115	0,017246652	397,7870115	424,3106929	140,253675	0,125643243	FALSE	38,0%	279,0712652	245,6444309	0,220055288	FALSE	25,0%
1994	1	1137,435573	Empty	540,0201664	370,3123879	100,4975185	0,088354471	FALSE	376,4616154	0,035876881	376,4616154	349,990916	120,8189904	0,106220513	FALSE	30,8%	365,6042913	105,2056151	0,092493692	FALSE	32,1%
1994	2	1137,435573	Empty	561,5525609	378,5105944	100,4975185	0,088354471	FALSE	371,3256339	0,035876881	371,3256339	363,9462142	120,8189904	0,106220513	FALSE	32,0%	365,6042913	105,2056151	0,092493692	FALSE	32,1%
1994	3	1137,435573	Empty	563,4338639	388,6125908	100,4975185	0,088354471	FALSE	389,6483237	0,035876881	389,6483237	423,4984428	120,8189904	0,106220513	FALSE	37,2%	406,2269904	105,2056151	0,092493692	FALSE	35,7%
1995	1	1537,731564	Empty	666,2778051	520,8805316	160,701011	0,104505243	FALSE	505,9646053	0,116404999	505,9646053	452,0389927	193,3007074	0,125705105	FALSE	29,4%	463,1721578	173,6616058	0,112933629	FALSE	30,1%
1995	2	1537,731564	Empty	692,7310729	547,3337994	160,701011	0,104505243	FALSE	532,4178731	0,116404999	532,4178731	469,986324	193,3007074	0,125705105	FALSE	30,6%	500,2259304	173,6616058	0,112933629	FALSE	32,5%
1995	3	1537,731564	Empty	570,1667274	469,5172329	160,701011	0,104505243	FALSE	499,3490855	0,116404999	499,3490855	615,7062473	193,3007074	0,125705105	FALSE	40,0%	574,3334757	173,6616058	0,112933629	FALSE	37,3%
1996	1	1090,24322	Non-Empty	764,8909792	389,5441499	0	0	TRUE	378,3146384	0	382,0759866	328,8982262	0	0	TRUE	30,2%	378,5566736	0	0	TRUE	34,7%
1996	2	1090,24322	Non-Empty	737,3071367	393,8124234	0	0	TRUE	414,4350281	0	368,2973905	317,0373504	0	0	TRUE	29,1%	348,2721397	0	0	TRUE	31,9%
1996	3	1090,24322	Non-Empty	680,3970577	306,8866467	0	0	TRUE	297,4935536	0	339,8698431	444,3076434	0	0	TRUE	40,8%	363,4144067	0	0	TRUE	33,3%
1997	1	982,8529395	Empty	446,6667263	327,7579598	132,0457688	0,134349467	FALSE	330,3347282	0,060228273	330,3347282	299,768038	153,3730614	0,15604884	FALSE	30,5%	360,3794112	204,2220527	0,207784954	FALSE	36,7%
1997	2	982,8529395	Empty	477,7070773	344,4053763	132,0457688	0,134349467	FALSE	332,5892104	0,060228273	332,5892104	320,5999123	153,3730614	0,15604884	FALSE	32,6%	251,173529	204,2220527	0,207784954	FALSE	25,6%
1997	3	982,8529395	Empty	422,9357408	310,6896034	132,0457688	0,134349467	FALSE	319,929001	0,060228273	319,929001	362,4849892	153,3730614	0,15604884	FALSE	36,9%	371,2999994	204,2220527	0,207784954	FALSE	37,8%
1998	1	1497,821571	Empty	774,414561	526,9346311	86,87786661	0,058002814	FALSE	543,9282008	0,094759609	543,9282008	452,9662391	160,8462587	0,107386795	FALSE	30,2%	452,4669329	161,3455648	0,10772015	FALSE	30,2%
1998	2	1497,821571	Empty	816,2998628	523,9107153	86,87786661	0,058002814	FALSE	495,9950673	0,094759609	495,9950673	477,4655558	160,8462587	0,107386795	FALSE	31,9%	530,4784731	161,3455648	0,10772015	FALSE	35,4%
1998	3	1497,821571	Empty	700,5276459	446,9762247	86,87786661	0,058002814	FALSE	457,8983031	0,094759609	457,8983031	567,3897762	160,8462587	0,107386795	FALSE	37,9%	514,8761651	161,3455648	0,10772015	FALSE	34,4%
1999	1	1093,480503	Non-Empty	529,9508439	340,3181452	0	0	TRUE	351,0504605	0	341,9681802	305,7699612	0	0	TRUE	28,0%	368,1023475	0	0	TRUE	33,7%
1999	2	1093,480503	Non-Empty	563,2298171	353,4547869	0	0	TRUE	344,0447705	0	363,4425303	324,9711956	0	0	TRUE	29,7%	368,1023475	0	0	TRUE	33,7%
1999	3	1093,480503	Non-Empty	601,3948835	399,7075706	0	0	TRUE	398,3852717	0	388,0697923	462,739346	0	0	TRUE	42,3%	357,2758078	0	0	TRUE	32,7%
2000	1	1904,30476	Empty	869,0072388	657,3233858	118,720056	0,062342992	FALSE	675,1129738	0,076874616	675,1129738	577,7944759	198,2489659	0,104105693	FALSE	30,3%	677,086137	139,310047	0,073155332	FALSE	35,6%
2000	2	1904,30476	Empty	822,5371047	595,7127507	118,720056	0,062342992	FALSE	598,3618378	0,076874616	598,3618378	546,8969348	198,2489659	0,104105693	FALSE	28,7%	634,7682535	139,310047	0,073155332	FALSE	33,3%
2000	3	1904,30476	Empty	901,18074	651,2686239	118,720056	0,062342992	FALSE	630,8299489	0,076874616	630,8299489	779,6133497	198,2489659	0,104105693	FALSE	40,9%	592,4503699	139,310047	0,073155332	FALSE	31,1%
2001	1	1147,016574	Empty	574,8710599	372,8624465	138,3043783	0,120577489	FALSE	366,4297234</												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2016	1	982,5393955	Non-Empty	691,2102679	337,3864834	0	0	TRUE	343,0449376	0	329,5225111	314,6242141	0	0	TRUE	32,0%	295,945601	0	0	TRUE	30,1%
2016	2	982,5393955	Non-Empty	703,6099859	337,2891197	0	0	TRUE	330,4504922	0	335,4338617	320,268302	0	0	TRUE	32,6%	355,1347213	0	0	TRUE	36,1%
2016	3	982,5393955	Non-Empty	666,1658576	307,8637923	0	0	TRUE	309,0439657	0	317,5830227	347,6468794	0	0	TRUE	35,4%	331,4590732	0	0	TRUE	33,7%
2017	1	944,2570742	Empty	491,331544	353,809852	117,2422199	0,124163454	FALSE	357,1788724	0,023045955	350,7188724	305,890857	155,6064235	0,164792436	FALSE	32,4%	318,2889014	146,4419539	0,155086954	FALSE	33,7%
2017	2	944,2570742	Empty	463,2999341	325,4963893	117,2422199	0,124163454	FALSE	322,123557	0,023045955	322,123557	288,4390706	155,6064235	0,164792436	FALSE	30,5%	286,4600113	146,4419539	0,155086954	FALSE	30,3%
2017	3	944,2570742	Empty	392,9177335	264,9508329	117,2422199	0,124163454	FALSE	271,4146447	0,023045955	271,4146447	349,9271465	155,6064235	0,164792436	FALSE	37,1%	339,5081615	146,4419539	0,155086954	FALSE	36,0%
2018	1	1160,274815	Non-Empty	765,4621381	351,9037548	0	0	TRUE	368,2961168	0	362,4899534	371,8572266	0	0	TRUE	32,0%	313,9567146	0	0	TRUE	27,1%
2018	2	1160,274815	Non-Empty	798,7657004	354,4548814	0	0	TRUE	340,0948077	0	378,2610885	388,035911	0	0	TRUE	33,4%	354,9075904	0	0	TRUE	30,6%
2018	3	1160,274815	Non-Empty	885,8992122	453,9161786	0	0	TRUE	451,8838903	0	419,5237729	400,3816773	0	0	TRUE	34,5%	491,4105098	0	0	TRUE	42,4%
2019	1	1147,463566	Empty	599,7801406	399,0907617	138,5487456	0,120743481	FALSE	390,5649379	0,114527644	390,5649379	390,0380447	138,5485207	0,120743285	FALSE	34,0%	417,2594785	199,9859956	0,174285268	FALSE	36,4%
2019	2	1147,463566	Empty	553,3775408	350,8098631	138,5487456	0,120743481	FALSE	340,4057405	0,114527644	340,4057405	359,8623552	138,5485207	0,120743285	FALSE	31,4%	394,0783964	199,9859956	0,174285268	FALSE	34,3%
2019	3	1147,463566	Empty	570,7965497	397,5629411	138,5487456	0,120743481	FALSE	416,4928875	0,114527644	416,4928875	397,563166	138,5485207	0,120743285	FALSE	34,6%	336,125691	199,9859956	0,174285268	FALSE	29,3%
2020	1	1100,528673	Non-Empty	751,7082208	373,9675525	0	0	TRUE	383,1304769	0	365,8508834	347,6789148	0	0	TRUE	31,6%	336,6323	0	0	TRUE	30,6%
2020	2	1100,528673	Non-Empty	774,2508381	375,7185589	0	0	TRUE	364,0898725	0	376,82221	358,105291	0	0	TRUE	32,5%	375,4744884	0	0	TRUE	34,1%
2020	3	1100,528673	Non-Empty	735,2803923	350,8425616	0	0	TRUE	353,3083236	0	357,8555796	394,7444672	0	0	TRUE	35,9%	388,4218846	0	0	TRUE	35,3%
2021	1	670,0959641	Non-Empty	562,0371721	226,4833951	0	0	TRUE	223,2181644	0	225,9313232	223,6836622	0	0	TRUE	33,4%	182,7534448	0	0	TRUE	27,3%
2021	2	670,0959641	Non-Empty	536,1755546	211,2291548	0	0	TRUE	218,5713014	0	215,5353035	213,3910666	0	0	TRUE	31,8%	205,5976254	0	0	TRUE	30,7%
2021	3	670,0959641	Non-Empty	568,7488767	232,3834143	0	0	TRUE	228,3064983	0	228,6293374	233,0212354	0	0	TRUE	34,8%	281,744894	0	0	TRUE	42,0%
2022	1	875,5518362	Non-Empty	524,1685981	290,6760514	0	0	TRUE	299,3411047	0	286,4729844	283,2076238	0	0	TRUE	32,3%	294,8286796	0	0	TRUE	33,7%
2022	2	875,5518362	Non-Empty	506,6341765	266,3280194	0	0	TRUE	268,1794623	0	276,8899264	273,7337982	0	0	TRUE	31,3%	259,0918699	0	0	TRUE	29,6%
2022	3	875,5518362	Non-Empty	571,2218616	318,5477654	0	0	TRUE	308,0312692	0	312,1889255	318,6104142	0	0	TRUE	36,4%	321,6312868	0	0	TRUE	36,7%
2023	1	1089,395439	Non-Empty	831,8446964	399,5359252	0	0	TRUE	376,2278106	0	391,2143118	358,8237222	0	0	TRUE	32,9%	268,9865281	0	0	TRUE	24,7%
2023	2	1089,395439	Non-Empty	758,7861641	374,1839685	0	0	TRUE	398,5824294	0	356,8550816	327,3092645	0	0	TRUE	30,0%	484,1757505	0	0	TRUE	44,4%
2023	3	1089,395439	Non-Empty	725,7665477	315,6755449	0	0	TRUE	314,5851986	0	341,3260453	403,2624519	0	0	TRUE	37,0%	336,2331601	0	0	TRUE	30,9%
2024	1	1662,013012	Empty	867,0550605	585,1154957	243,0356074	0,146229666	FALSE	571,0657532	0,097043541	571,0657532	556,337864	286,0613956	0,172117422	FALSE	33,5%	572,4711485	349,4932407	0,210283095	FALSE	34,4%
2024	2	1662,013012	Empty	789,5934145	549,6611031	243,0356074	0,146229666	FALSE	577,618614	0,097043541	577,618614	506,635315	286,0613956	0,172117422	FALSE	30,5%	443,2034698	349,4932407	0,210283095	FALSE	26,7%
2024	3	1662,013012	Empty	809,0340035	527,2364129	243,0356074	0,146229666	FALSE	513,3286445	0,097043541	513,3286445	599,0398328	286,0613956	0,172117422	FALSE	36,0%	646,3383934	349,4932407	0,210283095	FALSE	38,9%
2025	1	1392,861999	Empty	668,6491461	440,676458	200,1650602	0,143707747	FALSE	427,4534228	0,108452148	427,4534228	447,6364187	200,7727222	0,144144016	FALSE	32,1%	359,9531009	244,8766023	0,17580823	FALSE	25,8%
2025	2	1392,861999	Empty	697,8591685	473,5437709	200,1650602	0,143707747	FALSE	463,9780262	0,108452148	463,9780262	467,1914721	200,7727222	0,144144016	FALSE	33,5%	469,5040447	244,8766023	0,17580823	FALSE	33,7%
2025	3	1392,861999	Empty	670,6026436	478,6417704	200,1650602	0,143707747	FALSE	501,4305502	0,108452148	501,4305502	478,0341084	200,7727222	0,144144016	FALSE	34,3%	563,4048536	244,8766023	0,17580823	FALSE	40,4%
2026	1	1227,517073	Empty	627,1800328	432,1470259	183,736707	0,14968159	FALSE	428,8755827	0,059541509	428,8755827	417,0573489	194,5236688	0,158469216	FALSE	34,0%	358,6004933	239,2844778	0,194933727	FALSE	29,2%
2026	2	1227,517073	Empty	560,6139637	383,5797187	183,736707	0,14968159	FALSE	398,3070373	0,059541509	398,3070373	372,7927569	194,5236688	0,158469216	FALSE	30,4%	399,9774733	239,2844778	0,194933727	FALSE	32,6%
2026	3	1227,517073	Empty	615,0077677	411,7903287	183,736707	0,14968159	FALSE	400,3344534	0,059541509	400,3344534	437,6669675	194,5236688	0,158469216	FALSE	35,7%	468,9391067	239,2844778	0,194933727	FALSE	38,2%
2027	1	667,5144567	Non-Empty	477,7767618	194,1200331	0	0	TRUE	188,5332762	0	212,3711258	216,5243828	0	0	TRUE	32,4%	205,3890636	0	0	TRUE	30,8%
2027	2	667,5144567	Non-Empty	470,3172109	206,2146705	0	0	TRUE	220,1821018	0	209,0553655	213,1437775	0	0	TRUE	31,9%	273,8520848	0	0	TRUE	41,0%
2027	3	667,5144567	Non-Empty	553,6303992	267,1797531	0	0	TRUE	258,7990787	0	246,0879653	237,8462963	0	0	TRUE	35,6%	188,2733083	0	0	TRUE	28,2%
2028	1	965,2350565	Non-Empty	668,1526921	297,4532382	0	0	TRUE	293,1869123	0	312,3824862	300,2832703	0	0	TRUE	31,1%	311,3661473	0	0	TRUE	32,3%
2028	2	965,2350565	Non-Empty	736,0257819	368,163499	0	0	TRUE	366,7343443	0	344,1152993	330,7870064	0	0	TRUE	34,3%	321,7450188	0	0	TRUE	33,3%
2028	3	965,2350565	Non-Empty	660,3559669	299,6183193	0	0	TRUE	305,3137999	0	308,7372709	334,1647798	0	0	TRUE	34,6%	332,1238904	0	0	TRUE	34,4%
2029	1	998,4697051	Empty	542,0858066	351,3437154	124,4559709	0,124646717	FALSE	341,2263471	0,13932886	341,2263471	340,1660542	145,0024382	0,145224675	FALSE	34,1%	288,4468037	148,8599587	0,149088107	FALSE	28,9%
2029	2	998,4697051	Empty	463,8974629	311,6482957	124,4559709	0,124646717	FALSE	340,0238513	0,13932886	340,0238513	291,1018285	145,0024382	0,145224675	FALSE	29,2%	388,2937742	148,8599587	0,149088107	FALSE	38,9%
2029	3	998,4697051	Empty	534,360604	335,4776939	124,4559709	0,124646717	FALSE	317,2195067	0,13932886	317,2195067	367,2018224	145,0024382	0,145224675	FALSE	36,8%	321,7291272	148,8599587	0,149088107	FALSE	32,2%
2030	1	1333,555239	Empty	685,3203748	449,7480715	144,556328	0,108399205	FALSE	449,5791628	0,072472563	449,5791628	428,2487022	173,854408	0,130369109	FALSE	32,1%	617,9890131	234,0319826	0,17549478	FALSE	46,3%
2030	2	1333,555239	Empty	668,8566094	447,2587674	144,556328	0,108399205	FALSE	461,0643201	0,072472563	461,0643201	417,9606874	173,854408	0,130369109	FALSE	31,3%	357,7831128	234,0319826	0,17549478	FALSE	26,8%
2030	3	1333,555239	Empty	685,5884386	436,5483998	144,556328	0,108399205	FALSE	422,9117557	0,072472563	422,9117557	487,3458491	173,854408	0,130369109	FALSE	36,5%	357,7831128	234,0319826	0,17549478	FALSE	26,8%
2031	1	1327,093301	Empty	668,5608279	430,4973038	175,1069938	0,131947764	FALSE	429,3835231	0,013731857	429,3835231	415,2328419	192,6151179	0,1451406	FALSE	31,3%	433,0514981	223,977809	0,16877322	FALSE	32,6%
2031	2	1327,093301	Empty	728,2632816	484,5206994	175,1069938	0,131947764	FALSE	477,7278606	0,013731857	477,7278606	452,3131171	192,6151179	0,1451406	FALSE	34,1%	530,8373202	223,977809	0,16877322	FALSE	40,0%
2031	3	1327,093301	Empty	641,1184214	412,0752974	175,1069938	0,131947764	FALSE	419,9819168	0,013731857	419,9819168	459,5473415	192,6151179	0,1451406	FALSE	34,6%	363,2044822	223,977809	0,16877322	FALSE	27,4%
2032	1	933,3287816	Non-Empty	712,431586	334,0809419	0	0	TRUE	333,2773415	0	321,85023										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2047	1	1035,728405	Empty	474,0872908	322,8640213	153,3524346	0,148062401	FALSE	311,7480904	0,095412608	311,7480904	340,955694	175,915238	0,16984688	FALSE	32,9%	402,1063219	226,5591059	0,218743741	FALSE	38,8%
2047	2	1035,728405	Empty	465,9289828	330,6172439	153,3524346	0,148062401	FALSE	335,4128436	0,095412608	335,4128436	335,0883746	175,915238	0,16984688	FALSE	32,4%	255,8858412	226,5591059	0,218743741	FALSE	24,7%
2047	3	1035,728405	Empty	516,0341471	382,2471396	153,3524346	0,148062401	FALSE	388,5674708	0,095412608	388,5674708	359,6843362	175,915238	0,16984688	FALSE	34,7%	377,7362417	226,5591059	0,218743741	FALSE	36,5%
2048	1	859,316151	Non-Empty	467,2874598	238,195107	0	0	TRUE	269,4343245	0	244,7997332	246,9789769	0	0	TRUE	28,7%	241,6826675	0	0	TRUE	28,1%
2048	2	859,316151	Non-Empty	567,7465294	280,545966	0	0	TRUE	253,6769729	0	297,4276241	300,075369	0	0	TRUE	34,9%	304,3411368	0	0	TRUE	35,4%
2048	3	859,316151	Non-Empty	605,2768727	340,575078	0	0	TRUE	336,2048536	0	317,0887937	312,2618051	0	0	TRUE	36,3%	313,2923467	0	0	TRUE	36,5%
2049	1	1061,623304	Empty	606,1801483	414,1150681	96,14333646	0,090562572	FALSE	404,352793	0,016069386	404,352793	363,958143	128,5300229	0,121069331	FALSE	34,3%	349,9857046	153,2953957	0,144397165	FALSE	33,0%
2049	2	1061,623304	Empty	512,2765781	331,7280847	96,14333646	0,090562572	FALSE	333,4823963	0,016069386	333,4823963	307,577265	128,5300229	0,121069331	FALSE	29,0%	268,3223736	153,2953957	0,144397165	FALSE	25,3%
2049	3	1061,623304	Empty	490,0749928	315,7801513	96,14333646	0,090562572	FALSE	323,7881148	0,016069386	323,7881148	390,0878961	128,5300229	0,121069331	FALSE	36,7%	443,3152259	153,2953957	0,144397165	FALSE	41,8%
2050	1	981,1427724	Non-Empty	654,7824076	292,3512675	0	0	TRUE	307,8423787	0	303,7647799	308,5373248	0	0	TRUE	31,4%	350,408133	0	0	TRUE	35,7%
2050	2	981,1427724	Non-Empty	685,2737904	305,0030053	0	0	TRUE	302,6544715	0	317,9102549	322,9050439	0	0	TRUE	32,9%	303,6870486	0	0	TRUE	31,0%
2050	3	981,1427724	Non-Empty	774,8533281	383,7884995	0	0	TRUE	370,6459222	0	359,4677376	349,7004036	0	0	TRUE	35,6%	327,0475908	0	0	TRUE	33,3%
2051	1	1331,045012	Empty	668,2474622	441,3804943	194,5930704	0,14619571	FALSE	428,7381655	0,077234778	428,7381655	430,9187381	230,8560388	0,173439693	FALSE	32,4%	443,6816705	203,766488	0,153087601	FALSE	33,3%
2051	2	1331,045012	Empty	668,2252765	467,1674001	194,5930704	0,14619571	FALSE	480,3341627	0,077234778	480,3341627	430,9044317	230,8560388	0,173439693	FALSE	32,4%	457,9939825	203,766488	0,153087601	FALSE	34,4%
2051	3	1331,045012	Empty	637,2461901	422,4971172	194,5930704	0,14619571	FALSE	421,9726833	0,077234778	421,9726833	469,2218417	230,8560388	0,173439693	FALSE	35,3%	429,3693586	203,766488	0,153087601	FALSE	32,3%
2052	1	1240,695988	Non-Empty	756,2820499	402,9548314	0	0	TRUE	452,1579293	0	383,2541402	348,0972293	0	0	TRUE	28,1%	422,0924496	0	0	TRUE	34,0%
2052	2	1240,695988	Non-Empty	864,4331401	470,4270066	0	0	TRUE	478,9511896	0	438,0608794	397,8764021	0	0	TRUE	32,1%	486,0458511	0	0	TRUE	39,2%
2052	3	1240,695988	Non-Empty	827,5717476	367,3141503	0	0	TRUE	309,5868694	0	419,3809686	494,7223569	0	0	TRUE	39,9%	332,5576876	0	0	TRUE	26,8%
2053	1	981,6438803	Non-Empty	715,7656006	275,4224078	0	0	TRUE	200,6874489	0	338,050297	341,4179772	0	0	TRUE	34,8%	304,9767395	0	0	TRUE	31,1%
2053	2	981,6438803	Non-Empty	625,2179687	309,1833486	0	0	TRUE	358,7569625	0	295,2853837	298,2270369	0	0	TRUE	30,4%	314,5072626	0	0	TRUE	32,0%
2053	3	981,6438803	Non-Empty	737,4850129	397,0381239	0	0	TRUE	422,1994689	0	348,3081996	341,9988662	0	0	TRUE	34,8%	362,1598782	0	0	TRUE	36,9%
2054	1	1122,005027	Non-Empty	892,5306753	389,7073901	0	0	TRUE	394,3712235	0	378,6865702	369,8887726	0	0	TRUE	33,0%	342,5067978	0	0	TRUE	30,5%
2054	2	1122,005027	Non-Empty	890,0654974	374,7076177	0	0	TRUE	366,8368567	0	377,6406344	368,8671364	0	0	TRUE	32,9%	389,7491148	0	0	TRUE	34,7%
2054	3	1122,005027	Non-Empty	861,8702107	357,5900196	0	0	TRUE	360,7969471	0	365,6778227	383,2491183	0	0	TRUE	34,2%	389,7491148	0	0	TRUE	34,7%
2055	1	684,2967094	Non-Empty	422,496004	187,4404324	0	0	TRUE	212,4694231	0	197,4070855	197,1138496	0	0	TRUE	28,8%	234,3481882	0	0	TRUE	34,2%
2055	2	684,2967094	Non-Empty	520,3006244	244,4747102	0	0	TRUE	228,7333582	0	243,1053285	242,7442107	0	0	TRUE	35,5%	215,6003331	0	0	TRUE	31,5%
2055	3	684,2967094	Non-Empty	521,7537678	252,3815668	0	0	TRUE	243,0939281	0	243,7842954	244,4386491	0	0	TRUE	35,7%	234,3481882	0	0	TRUE	34,2%
2056	1	997,3589262	Empty	479,0195762	320,7114701	123,0700192	0,123395917	FALSE	306,533477	0,119916758	306,533477	313,4337812	126,3479901	0,126682568	FALSE	31,4%	305,313957	126,2721534	0,126606531	FALSE	30,6%
2056	2	997,3589262	Empty	497,6015197	349,9970539	123,0700192	0,123395917	FALSE	346,522701	0,119916758	346,522701	325,5923841	126,3479901	0,126682568	FALSE	32,6%	325,6682208	126,2721534	0,126606531	FALSE	32,7%
2056	3	997,3589262	Empty	453,128169	326,6504022	123,0700192	0,123395917	FALSE	344,3027482	0,119916758	344,3027482	358,3327609	126,3479901	0,126682568	FALSE	35,9%	366,3767484	126,2721534	0,126606531	FALSE	36,7%
2057	1	592,5597643	Non-Empty	482,7242049	249,3184354	0	0	TRUE	229,0191205	0	232,2004932	203,7439751	0	0	TRUE	34,4%	222,2099116	0	0	TRUE	37,5%
2057	2	592,5597643	Non-Empty	425,4021018	189,1115261	0	0	TRUE	165,927405	0	204,6273563	179,5499674	0	0	TRUE	30,3%	162,9539352	0	0	TRUE	27,5%
2057	3	592,5597643	Non-Empty	323,7528213	154,1298028	0	0	TRUE	197,6132388	0	155,7319149	209,2658218	0	0	TRUE	35,3%	207,3959175	0	0	TRUE	35,0%
2058	1	1535,815585	Empty	801,2550809	542,5646063	239,0620847	0,155658067	FALSE	537,0074752	0,016300213	537,0074752	526,925027	244,9007977	0,159459769	FALSE	34,3%	452,6614355	315,150565	0,205200786	FALSE	29,5%
2058	2	1535,815585	Empty	732,2794636	487,4036795	239,0620847	0,155658067	FALSE	495,6612389	0,016300213	495,6612389	481,5649665	244,9007977	0,159459769	FALSE	31,4%	549,6603146	315,150565	0,205200786	FALSE	35,8%
2058	3	1535,815585	Empty	761,6810707	505,847299	239,0620847	0,155658067	FALSE	503,1468707	0,016300213	503,1468707	527,3255914	244,9007977	0,159459769	FALSE	34,3%	533,4938347	315,150565	0,205200786	FALSE	34,7%
2059	1	1072,154293	Non-Empty	805,0190011	352,5935043	0	0	TRUE	341,0462586	0	360,4094396	345,3897503	0	0	TRUE	32,2%	308,2443593	0	0	TRUE	28,8%
2059	2	1072,154293	Non-Empty	828,9928753	390,0569908	0	0	TRUE	391,9993575	0	371,1426155	355,6756323	0	0	TRUE	33,2%	428,8617172	0	0	TRUE	40,0%
2059	3	1072,154293	Non-Empty	760,7771699	329,5037979	0	0	TRUE	339,108677	0	340,6022381	371,0889105	0	0	TRUE	34,6%	335,0482166	0	0	TRUE	31,3%
2060	1	995,9912484	Empty	513,149481	338,8274486	125,0758834	0,1255793	FALSE	326,8906061	0,164400161	326,8906061	334,3960357	127,2231901	0,127735249	FALSE	33,6%	351,526323	200,488989	0,201295934	FALSE	35,3%
2060	2	995,9912484	Empty	489,2562332	312,2471798	125,0758834	0,1255793	FALSE	297,6233163	0,164400161	297,6233163	318,8258995	127,2231901	0,127735249	FALSE	32,0%	374,9614112	200,488989	0,201295934	FALSE	37,6%
2060	3	995,9912484	Empty	480,7411038	344,9166199	125,0758834	0,1255793	FALSE	371,4773259	0,164400161	371,4773259	342,7693132	127,2231901	0,127735249	FALSE	34,4%	269,5035143	200,488989	0,201295934	FALSE	27,1%
2061	1	955,8608206	Non-Empty	679,6547069	301,235576	0	0	TRUE	301,7330088	0	310,4520895	293,4231904	0	0	TRUE	30,7%	353,5375638	0	0	TRUE	37,0%
2061	2	955,8608206	Non-Empty	756,06185	374,1299857	0	0	TRUE	371,1146849	0	345,3532783	326,4099813	0	0	TRUE	34,1%	314,2556122	0	0	TRUE	32,9%
2061	3	955,8608206	Non-Empty	656,8939545	280,4952588	0	0	TRUE	283,0131268	0	300,0554527	336,0276489	0	0	TRUE	35,2%	288,0676446	0	0	TRUE	30,1%
2062	1	1675,75629	Empty	910,3021099	597,3345313	240,6460037	0,143604416	FALSE	565,8809848	0,112547838	565,8809848	591,3071719	263,3736998	0,157167066	FALSE	35,3%	525,7274636	239,9314965	0,143178037	FALSE	31,4%
2062	2	1675,75629	Empty	751,5781791	510,9321753	240,6460037	0,143604416	FALSE	551,8002037	0,112547838	551,8002037	488,2044792	263,3736998	0,157167066	FALSE	29,1%	624,301363	239,9314965	0,143178037	FALSE	37,3%
2062	3	1675,75629	Empty	858,4180977	567,4895837	240,6460037	0,143604416	FALSE	558,0751018	0,112547838	558,0751018	596,2446391	263,3736998	0,157167066	FALSE	35,6%	525,7274636	239,9314965	0,143178037	FALSE	31,4%
2063	1	701,5474494	Non-Empty	465,3827874	216,4356193	0	0	TRUE	210,9404823	0	228,0098468	231,8859358	0	0	TRUE	33,1%	200,4421284	0	0	TRUE	28,6%
2063	2	701,5474494	Non-Empty	454,0955939	220,0955226	0	0	TRUE	229,5474825	0</											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2078	1	1207,498838	Empty	590,2363776	405,5621948	147,0512325	0,121781676	FALSE	417,3457307	0,077271837	417,3457307	365,598851	187,0145763	0,154877645	FALSE	30,3%	402,4996128	167,530691	0,138741907	FALSE	33,3%
2078	2	1207,498838	Empty	642,3539995	440,329444	147,0512325	0,121781676	FALSE	434,7626072	0,077271837	434,7626072	397,8810745	187,0145763	0,154877645	FALSE	33,0%	402,4996128	167,530691	0,138741907	FALSE	33,3%
2078	3	1207,498838	Empty	564,2816177	361,6071997	147,0512325	0,121781676	FALSE	355,3905005	0,077271837	355,3905005	444,018913	187,0145763	0,154877645	FALSE	36,8%	402,4996128	167,530691	0,138741907	FALSE	33,3%
2079	1	1193,115543	Empty	582,3831552	381,6955154	129,9326636	0,108901996	FALSE	376,0945896	0,040845873	376,0945896	366,5187654	152,9774415	0,128216787	FALSE	30,7%	304,9073054	192,2577066	0,161139219	FALSE	25,6%
2079	2	1193,115543	Empty	630,0066302	431,6586008	129,9326636	0,108901996	FALSE	428,3972854	0,040845873	428,3972854	396,4902663	152,9774415	0,128216787	FALSE	33,2%	437,475699	192,2577066	0,161139219	FALSE	36,7%
2079	3	1193,115543	Empty	565,9858994	379,7614266	129,9326636	0,108901996	FALSE	388,6236679	0,040845873	388,6236679	430,106511	152,9774415	0,128216787	FALSE	36,0%	450,7325384	192,2577066	0,161139219	FALSE	37,8%
2080	1	1394,123407	Empty	676,4479842	467,8529907	202,1466168	0,144999084	FALSE	473,6588004	0,041030149	473,6588004	445,9990839	224,0005236	0,160674817	FALSE	32,0%	482,5811794	215,8113214	0,15480073	FALSE	34,6%
2080	2	1394,123407	Empty	685,4630344	473,1519297	202,1466168	0,144999084	FALSE	475,2416282	0,041030149	475,2416282	451,9429321	224,0005236	0,160674817	FALSE	32,4%	455,7711138	215,8113214	0,15480073	FALSE	32,7%
2080	3	1394,123407	Empty	675,4147982	453,1184867	202,1466168	0,144999084	FALSE	445,2229784	0,041030149	445,2229784	496,1813911	224,0005236	0,160674817	FALSE	35,6%	455,7711138	215,8113214	0,15480073	FALSE	32,7%
2081	1	986,847378	Non-Empty	773,2849922	390,7554528	0	0	TRUE	378,0653243	0	364,0177377	342,3976801	0	0	TRUE	34,7%	341,6010155	0	0	TRUE	34,6%
2081	2	986,847378	Non-Empty	670,9727955	302,2613179	0	0	TRUE	303,3847512	0	315,8572061	297,0975406	0	0	TRUE	30,1%	328,949126	0	0	TRUE	33,3%
2081	3	986,847378	Non-Empty	652,1033231	293,8306073	0	0	TRUE	305,3973025	0	306,9724342	347,3521573	0	0	TRUE	35,2%	316,2972366	0	0	TRUE	32,1%
2082	1	1146,837317	Empty	574,5854807	372,1796756	154,0740027	0,134346869	FALSE	359,9341331	0,142940357	359,9341331	383,2381905	180,4185602	0,157318355	FALSE	33,4%	439,2142918	213,2842479	0,185976027	FALSE	38,3%
2082	2	1146,837317	Empty	565,1155643	361,6358839	154,0740027	0,134346869	FALSE	348,3164662	0,142940357	348,3164662	376,9219264	180,4185602	0,157318355	FALSE	32,9%	353,8115128	213,2842479	0,185976027	FALSE	30,9%
2082	3	1146,837317	Empty	577,6170607	413,021758	154,0740027	0,134346869	FALSE	438,5867181	0,142940357	438,5867181	386,6772006	180,4185602	0,157318355	FALSE	33,7%	353,8115128	213,2842479	0,185976027	FALSE	30,9%
2083	1	900,0200388	Non-Empty	615,3645401	341,5291067	0	0	TRUE	390,6330323	0	296,3554802	273,7637252	0	0	TRUE	30,4%	317,1499184	0	0	TRUE	35,2%
2083	2	900,0200388	Non-Empty	660,4432124	269,427243	0	0	TRUE	201,3506327	0	318,0650697	293,8183505	0	0	TRUE	32,6%	265,7202019	0	0	TRUE	29,5%
2083	3	900,0200388	Non-Empty	593,0303633	289,063689	0	0	TRUE	308,0363737	0	285,5994888	332,437963	0	0	TRUE	36,9%	317,1499184	0	0	TRUE	35,2%
2084	1	1213,80287	Non-Empty	823,5679591	376,2166599	0	0	TRUE	382,2690128	0	388,3619979	389,7384246	0	0	TRUE	32,1%	352,3943815	0	0	TRUE	29,0%
2084	2	1213,80287	Non-Empty	852,6648517	401,5579669	0	0	TRUE	403,8547342	0	402,0829389	403,5079952	0	0	TRUE	33,2%	417,6526003	0	0	TRUE	34,4%
2084	3	1213,80287	Non-Empty	897,7810151	436,0282428	0	0	TRUE	427,6791227	0	423,3579328	420,5564499	0	0	TRUE	34,6%	443,7558878	0	0	TRUE	36,6%
2085	1	1145,523052	Non-Empty	800,9850669	351,3383389	0	0	TRUE	358,9781256	0	364,4844687	357,6581742	0	0	TRUE	31,2%	436,9520918	0	0	TRUE	38,1%
2085	2	1145,523052	Non-Empty	881,4509439	400,6158959	0	0	TRUE	377,0673626	0	401,1000857	393,5880309	0	0	TRUE	34,4%	342,4759639	0	0	TRUE	29,9%
2085	3	1145,523052	Non-Empty	834,9465851	393,5688168	0	0	TRUE	409,4775633	0	379,9384971	394,2768464	0	0	TRUE	34,4%	366,0949958	0	0	TRUE	32,0%
2086	1	1834,473953	Empty	888,4718917	623,0877279	216,7513895	0,11815452	FALSE	639,965657	0,147700886	639,965657	596,2317047	238,5824596	0,130054972	FALSE	32,5%	617,371042	217,4431223	0,118531594	FALSE	33,7%
2086	2	1834,473953	Empty	879,9337364	558,8908322	216,7513895	0,11815452	FALSE	520,1100208	0,147700886	520,1100208	590,501958	238,5824596	0,130054972	FALSE	32,2%	564,4535241	217,4431223	0,118531594	FALSE	30,8%
2086	3	1834,473953	Empty	912,8546041	652,4953934	216,7513895	0,11815452	FALSE	674,3982756	0,147700886	674,3982756	647,7402907	238,5824596	0,130054972	FALSE	35,3%	652,6493873	217,4431223	0,118531594	FALSE	35,6%
2087	1	1318,634278	Empty	664,0329846	475,6822911	184,7257414	0,140088685	FALSE	495,2679992	0,220632653	495,2679992	413,1924609	243,4030143	0,184587204	FALSE	31,3%	483,0640426	196,2767341	0,1488485	FALSE	36,6%
2087	2	1318,634278	Empty	637,6414452	455,4476805	184,7257414	0,140088685	FALSE	481,1903172	0,220632653	481,1903172	396,7704076	243,4030143	0,184587204	FALSE	30,1%	443,8966878	196,2767341	0,1488485	FALSE	33,7%
2087	3	1318,634278	Empty	640,7690533	387,5043068	184,7257414	0,140088685	FALSE	342,1759619	0,220632653	342,1759619	508,6714099	243,4030143	0,184587204	FALSE	38,6%	391,673548	196,2767341	0,1488485	FALSE	29,7%
2088	1	1633,433314	Empty	865,2619701	548,4071172	223,0397815	0,13654661	FALSE	531,5106421	0,083224497	531,5106421	525,7648919	208,0842247	0,127390707	FALSE	32,2%	458,8295827	260,7283503	0,159619831	FALSE	28,1%
2088	2	1633,433314	Empty	907,7997483	589,7453548	223,0397815	0,13654661	FALSE	571,6493392	0,083224497	571,6493392	551,6124053	208,0842247	0,127390707	FALSE	33,8%	587,3018658	260,7283503	0,159619831	FALSE	36,0%
2088	3	1633,433314	Empty	760,2467295	495,2808423	223,0397815	0,13654661	FALSE	530,273333	0,083224497	530,273333	556,056017	208,0842247	0,127390707	FALSE	34,0%	587,3018658	260,7283503	0,159619831	FALSE	36,0%
2089	1	730,8895775	Non-Empty	588,5236564	227,2197142	0	0	TRUE	217,4750357	0	240,9014715	234,5475951	0	0	TRUE	32,1%	186,6101049	0	0	TRUE	25,5%
2089	2	730,8895775	Non-Empty	606,5039105	261,2898406	0	0	TRUE	267,6350344	0	248,261362	241,7133655	0	0	TRUE	33,1%	233,2626311	0	0	TRUE	31,9%
2089	3	730,8895775	Non-Empty	590,5398017	242,3800227	0	0	TRUE	245,7795074	0	241,726744	254,6286169	0	0	TRUE	34,8%	311,0168415	0	0	TRUE	42,6%
2090	1	664,9343071	Non-Empty	516,7654355	235,0702715	0	0	TRUE	231,7554787	0	229,0651937	222,515324	0	0	TRUE	33,5%	224,0539513	0	0	TRUE	33,7%
2090	2	664,9343071	Non-Empty	490,3693138	202,3361234	0	0	TRUE	192,6833042	0	217,3646574	211,1493518	0	0	TRUE	31,8%	216,8264045	0	0	TRUE	32,6%
2090	3	664,9343071	Non-Empty	492,9406712	227,5279121	0	0	TRUE	240,4955242	0	218,504456	231,2696312	0	0	TRUE	34,8%	224,0539513	0	0	TRUE	33,7%
2091	1	1363,743596	Empty	659,4419815	447,9737823	167,3269077	0,12269675	FALSE	454,7672139	0,065328626	454,7672139	430,4486425	181,8878988	0,133373971	FALSE	31,6%	533,6387984	210,8759348	0,154630193	FALSE	39,1%
2091	2	1363,743596	Empty	691,9810306	457,1683877	167,3269077	0,12269675	FALSE	440,6173757	0,065328626	440,6173757	451,6884026	181,8878988	0,133373971	FALSE	33,1%	415,0523987	210,8759348	0,154630193	FALSE	30,4%
2091	3	1363,743596	Empty	667,1054764	458,6014258	167,3269077	0,12269675	FALSE	468,3590061	0,065328626	468,3590061	481,6065507	181,8878988	0,133373971	FALSE	35,3%	415,0523987	210,8759348	0,154630193	FALSE	30,4%
2092	1	1440,307046	Empty	747,0560008	496,6255285	219,9021266	0,152677255	FALSE	490,7259857	0,035461902	490,7259857	490,4617204	225,6624494	0,156676627	FALSE	34,1%	453,1303067	244,4158466	0,169697043	FALSE	31,5%
2092	2	1440,307046	Empty	690,6179899	459,1690192	219,9021266	0,152677255	FALSE	472,2509782	0,035461902	472,2509782	453,4086964	225,6624494	0,156676627	FALSE	31,5%	517,8632077	244,4158466	0,169697043	FALSE	36,0%
2092	3	1440,307046	Empty	736,2258443	484,5124987	219,9021266	0,152677255	FALSE	477,3300826	0,035461902	477,3300826	496,4366296	225,6624494	0,156676627	FALSE	34,5%	469,313532	244,4158466	0,169697043	FALSE	32,6%
2093	1	1137,842433	Non-Empty	808,4103427	365,3741039	0	0	TRUE	362,443375	0	374,2002065	383,6231712	0	0	TRUE	33,7%	360,7793082	0	0	TRUE	31,7%
2093	2	1137,842433	Non-Empty	766,9261353	329,4998595	0	0	TRUE	332,1790935	0	354,997831	363,9372489	0	0	TRUE	32,0%	346,9031809	0	0	TRUE	30,5%
2093	3	1137,842433	Non-Empty	882,8224851	442,9684701	0	0	TRUE	443,219965	0	408,644396	39									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2109	1	1511,46591	Empty	740,3612808	499,1067598	224,3935094	0,148460847	FALSE	489,0928001	0,065590519	489,0928001	507,2175588	241,9897089	0,160102657	FALSE	33,6%	462,6936461	249,146882	0,16483791	FALSE	30,6%
2109	2	1511,46591	Empty	712,4974073	478,6427675	224,3935094	0,148460847	FALSE	476,0286892	0,065590519	476,0286892	488,1281679	241,9897089	0,160102657	FALSE	32,3%	539,8092537	249,146882	0,16483791	FALSE	35,7%
2109	3	1511,46591	Empty	752,3289068	533,7163832	224,3935094	0,148460847	FALSE	546,3444212	0,065590519	546,3444212	516,1201838	241,9897089	0,160102657	FALSE	34,1%	508,9630107	249,146882	0,16483791	FALSE	33,7%
2110	1	1075,245264	Empty	532,628822	381,6489782	161,5317935	0,150227859	FALSE	394,0745602	0,088180784	394,0745602	344,3038584	198,8769133	0,184959581	FALSE	32,0%	422,849261	177,2959511	0,164888846	FALSE	39,3%
2110	2	1075,245264	Empty	531,3906335	361,1864743	161,5317935	0,150227859	FALSE	354,3877409	0,088180784	354,3877409	343,5034641	198,8769133	0,184959581	FALSE	31,9%	326,1980013	177,2959511	0,164888846	FALSE	30,3%
2110	3	1075,245264	Empty	501,4420855	332,4098111	161,5317935	0,150227859	FALSE	326,7829625	0,088180784	326,7829625	387,4379412	198,8769133	0,184959581	FALSE	36,0%	326,1980013	177,2959511	0,164888846	FALSE	30,3%
2111	1	1245,49414	Empty	646,1065909	421,4324741	162,1695696	0,130205004	FALSE	421,7561208	0,057329073	421,7561208	420,008718	174,8553976	0,140390382	FALSE	33,7%	468,7343537	208,2662825	0,167215787	FALSE	37,6%
2111	2	1245,49414	Empty	621,0103717	389,5850599	162,1695696	0,130205004	FALSE	383,1575117	0,057329073	383,1575117	403,6946439	174,8553976	0,140390382	FALSE	32,4%	388,3798931	208,2662825	0,167215787	FALSE	31,2%
2111	3	1245,49414	Empty	653,3704682	434,476606	162,1695696	0,130205004	FALSE	440,5805074	0,057329073	440,5805074	421,790778	174,8553976	0,140390382	FALSE	33,9%	388,3798931	208,2662825	0,167215787	FALSE	31,2%
2112	1	775,6672681	Non-Empty	567,9441248	260,7061342	0	0	TRUE	265,5100923	0	257,3533356	240,9684233	0	0	TRUE	31,1%	278,2284766	0	0	TRUE	35,9%
2112	2	775,6672681	Non-Empty	596,9251517	284,5412727	0	0	TRUE	284,1993423	0	270,485499	253,264549	0	0	TRUE	32,7%	252,9349787	0	0	TRUE	32,6%
2112	3	775,6672681	Non-Empty	546,9238375	230,4198612	0	0	TRUE	225,9578335	0	247,8283827	281,4342959	0	0	TRUE	36,3%	244,5038128	0	0	TRUE	31,5%
2113	1	731,0212723	Empty	365,439379	226,6587781	65,05227004	0,088988204	FALSE	224,5767397	0,046597187	224,5767397	228,1360488	99,92658202	0,095656015	FALSE	31,2%	188,9156097	97,56590425	0,133465205	FALSE	25,8%
2113	2	731,0212723	Empty	390,8517168	253,0876971	65,05227004	0,088988204	FALSE	252,0222398	0,046597187	252,0222398	244,000432	99,92658202	0,095656015	FALSE	33,4%	246,4116648	97,56590425	0,133465205	FALSE	33,7%
2113	3	731,0212723	Empty	384,8258638	251,2747971	65,05227004	0,088988204	FALSE	254,4222929	0,046597187	254,4222929	258,8847915	99,92658202	0,095656015	FALSE	35,4%	295,6939978	97,56590425	0,133465205	FALSE	40,4%
2114	1	692,5272476	Non-Empty	498,6905432	244,9910516	0	0	TRUE	228,8092773	0	245,7914789	238,2018758	0	0	TRUE	34,4%	265,7371997	0	0	TRUE	38,4%
2114	2	692,5272476	Non-Empty	425,439204	214,2980779	0	0	TRUE	240,6746691	0	209,6878165	203,2130302	0	0	TRUE	29,3%	217,4213452	0	0	TRUE	31,4%
2114	3	692,5272476	Non-Empty	480,9506521	233,238118	0	0	TRUE	223,0433012	0	237,0479522	251,1123415	0	0	TRUE	36,3%	209,3687028	0	0	TRUE	30,2%
2115	1	1245,321268	Non-Empty	882,9697325	408,9378387	0	0	TRUE	394,5393187	0	419,0122798	398,3289613	0	0	TRUE	32,0%	381,2207965	0	0	TRUE	30,6%
2115	2	1245,321268	Non-Empty	910,5395964	452,1656907	0	0	TRUE	453,4251586	0	432,0955273	410,7663925	0	0	TRUE	33,0%	432,050236	0	0	TRUE	34,7%
2115	3	1245,321268	Non-Empty	830,7120607	384,217739	0	0	TRUE	397,3567911	0	394,2134613	436,2259147	0	0	TRUE	35,0%	432,050236	0	0	TRUE	34,7%
2116	1	1603,651895	Empty	857,9681806	557,0707712	216,0652073	0,134733235	FALSE	551,4263385	0,014886273	551,4263385	548,7818756	215,6536102	0,134476572	FALSE	34,2%	469,3615302	287,4456013	0,179244387	FALSE	29,3%
2116	2	1603,651895	Empty	788,5136905	503,9451282	216,0652073	0,134733235	FALSE	514,6295426	0,014886273	514,6295426	504,3567253	215,6536102	0,134476572	FALSE	31,5%	567,1451823	287,4456013	0,179244387	FALSE	35,4%
2116	3	1603,651895	Empty	842,9289539	52,6359954	216,0652073	0,134733235	FALSE	537,5960137	0,014886273	537,5960137	550,5132939	215,6536102	0,134476572	FALSE	34,3%	567,1451823	287,4456013	0,179244387	FALSE	35,4%
2117	1	850,1639573	Non-Empty	597,4508827	311,8315431	0	0	TRUE	301,5139545	0	303,4090649	293,5001692	0	0	TRUE	34,5%	200,0385782	21,56395125	0,025364462	FALSE	23,5%
2117	2	850,1639573	Non-Empty	503,5391906	238,2106765	0	0	TRUE	248,1839132	0	255,4136001	247,3656696	0	0	TRUE	29,1%	290,0559384	21,56395125	0,025364462	FALSE	34,1%
2117	3	850,1639573	Non-Empty	575,0791366	300,1217377	0	0	TRUE	300,4660896	0	291,7012923	309,2981185	0	0	TRUE	36,4%	360,0694407	21,56395125	0,025364462	FALSE	42,4%
2118	1	1082,81161	Non-Empty	750,7386771	392,684977	0	0	TRUE	411,0263244	0	367,4998865	352,4554451	0	0	TRUE	32,6%	312,8122428	8,691964334	0,008027218	FALSE	28,9%
2118	2	1082,81161	Non-Empty	730,8233473	339,3664594	0	0	TRUE	324,304619	0	357,7099797	343,1056319	0	0	TRUE	31,7%	372,9684433	8,691964334	0,008027218	FALSE	34,4%
2118	3	1082,81161	Non-Empty	730,4347276	350,7601732	0	0	TRUE	347,4806663	0	357,5607435	387,2505327	0	0	TRUE	35,8%	397,0309236	8,691964334	0,008027218	FALSE	36,7%
2119	1	1112,437015	Empty	518,7158268	340,7886156	156,8907937	0,141033417	FALSE	330,2232228	0,125549851	330,2232228	329,2429605	155,8026669	0,14005527	FALSE	29,6%	378,4579534	191,7557252	0,172374456	FALSE	34,0%
2119	2	1112,437015	Empty	616,7598705	433,2491788	156,8907937	0,141033417	FALSE	417,1003055	0,125549851	417,1003055	391,474166	155,8026669	0,14005527	FALSE	35,2%	355,5211078	191,7557252	0,172374456	FALSE	32,0%
2119	3	1112,437015	Empty	479,0467724	338,3992202	156,8907937	0,141033417	FALSE	365,1134864	0,125549851	365,1134864	391,719888	155,8026669	0,14005527	FALSE	35,2%	378,4579534	191,7557252	0,172374456	FALSE	34,0%
2120	1	1040,380629	Empty	642,8769348	432,2708078	94,4690891	0,09080243	FALSE	417,7263962	0,03461912	417,7263962	379,9943583	116,8396215	0,112304688	FALSE	36,5%	411,0145693	86,85674695	0,083485548	FALSE	39,5%
2120	2	1040,380629	Empty	471,9828464	291,2826365	94,4690891	0,09080243	FALSE	306,644142	0,03461912	306,644142	278,9815735	116,8396215	0,112304688	FALSE	26,8%	321,1051323	86,85674695	0,083485548	FALSE	30,9%
2120	3	1040,380629	Empty	513,7059935	316,8271843	94,4690891	0,09080243	FALSE	316,0100903	0,03461912	316,0100903	381,4046968	116,8396215	0,112304688	FALSE	36,7%	308,260927	86,85674695	0,083485548	FALSE	29,6%
2121	1	1250,920752	Empty	649,0851212	460,3738634	167,7111482	0,134070162	FALSE	459,4370316	0,041536718	459,4370316	410,3197569	215,1021885	0,171955088	FALSE	32,8%	416,9735838	208,4483616	0,166635945	FALSE	33,3%
2121	2	1250,920752	Empty	612,8242182	424,2603898	167,7111482	0,134070162	FALSE	423,4709873	0,041536718	423,4709873	387,3973937	215,1021885	0,171955088	FALSE	31,0%	429,609147	208,4483616	0,166635945	FALSE	34,3%
2121	3	1250,920752	Empty	552,3346901	366,2864984	167,7111482	0,134070162	FALSE	368,0127327	0,041536718	368,0127327	453,2036009	215,1021885	0,171955088	FALSE	36,2%	404,3380207	208,4483616	0,166635945	FALSE	32,3%
2122	1	793,9856523	Non-Empty	615,4719658	271,9849561	0	0	TRUE	289,9146239	0	260,1781631	248,1071164	0	0	TRUE	31,2%	271,9128946	0	0	TRUE	34,2%
2122	2	793,9856523	Non-Empty	646,6924373	276,4972384	0	0	TRUE	267,7187168	0	273,3759778	260,6926143	0	0	TRUE	32,8%	217,5303157	0	0	TRUE	27,4%
2122	3	793,9856523	Non-Empty	616,0712813	245,5034577	0	0	TRUE	236,3523116	0	260,4315114	285,1859215	0	0	TRUE	35,9%	304,542442	0	0	TRUE	38,4%
2123	1	960,7248484	Non-Empty	701,1926034	340,7326114	0	0	TRUE	346,5294801	0	327,0962138	300,8972963	0	0	TRUE	31,3%	256,9380408	0	0	TRUE	26,7%
2123	2	960,7248484	Non-Empty	716,9218978	348,4631657	0	0	TRUE	346,2612943	0	334,437022	307,6470854	0	0	TRUE	32,0%	335,136575	0	0	TRUE	34,9%
2123	3	960,7248484	Non-Empty	641,3809292	317,5290713	0	0	TRUE	267,934074	0	299,1949324	352,1804667	0	0	TRUE	36,7%	368,6502325	0	0	TRUE	38,4%
2124	1	1762,078801	Empty	895,0127131	602,0824888	243,4769144	0,138175951	FALSE	597,9107496	0,010728759	597,9107496	585,1503444	252,076138	0,14305611	FALSE	33,2%	544,972825	292,2536574	0,165857314	FALSE	30,9%
2124	2	1762,078801	Empty	865,1526181	576,4046905	243,4769144	0,138175951	FALSE	576,415248	0,010728759	576,415248	565,6281135	252,076138	0,14305611	FALSE	32,1%	635,8016292	292,2536574	0,165857314	FALSE	36,1%
2124	3	1762,078801	Empty	868,1889252	583,5916217	243,4769144															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2140	1	826,8612203	Non-Empty	606,7838995	237,1524974	0	0	TRUE	217,5711275	0	267,3005064	260,9338168	0	0	TRUE	31,6%	297,6700393	0	0	TRUE	36,0%
2140	2	826,8612203	Non-Empty	627,3714187	286,2024758	0	0	TRUE	295,0835651	0	276,3697225	269,787018	0	0	TRUE	32,6%	253,5707742	0	0	TRUE	30,7%
2140	3	826,8612203	Non-Empty	642,8559987	303,5062472	0	0	TRUE	314,2065277	0	283,1909914	296,1403856	0	0	TRUE	35,8%	275,6204068	0	0	TRUE	33,3%
2141	1	711,6981331	Non-Empty	480,2965172	219,0747217	0	0	TRUE	205,7798696	0	234,8547408	209,810935	0	0	TRUE	29,5%	237,232711	0	0	TRUE	33,3%
2141	2	711,6981331	Non-Empty	573,7599499	311,2188147	0	0	TRUE	296,6046229	0	280,5563636	250,6391515	0	0	TRUE	35,2%	245,7053078	0	0	TRUE	34,5%
2141	3	711,6981331	Non-Empty	401,4224958	181,4045966	0	0	TRUE	209,3136407	0	196,2870286	251,2480466	0	0	TRUE	35,3%	228,7601142	0	0	TRUE	32,1%
2142	1	1176,355843	Non-Empty	910,1506714	424,0726649	0	0	TRUE	416,2987938	0	410,0157311	402,6807211	0	0	TRUE	34,2%	392,1186143	0	0	TRUE	33,3%
2142	2	1176,355843	Non-Empty	837,9507059	368,0988601	0	0	TRUE	376,5511496	0	377,4902135	370,7370714	0	0	TRUE	31,5%	330,8500808	0	0	TRUE	28,1%
2142	3	1176,355843	Non-Empty	863,1668718	384,1843179	0	0	TRUE	383,5058994	0	388,8498983	402,9380504	0	0	TRUE	34,3%	453,3871478	0	0	TRUE	38,5%
2143	1	828,9459374	Non-Empty	565,8733835	333,2142243	0	0	TRUE	344,5632906	0	300,5043389	256,5245982	0	0	TRUE	30,9%	306,7099968	0	0	TRUE	37,0%
2143	2	828,9459374	Non-Empty	492,1527451	284,440775	0	0	TRUE	320,7370305	0	261,3553484	223,1051837	0	0	TRUE	26,9%	306,7099968	0	0	TRUE	37,0%
2143	3	828,9459374	Non-Empty	502,9444852	211,2909381	0	0	TRUE	163,6456164	0	267,0862501	349,3161554	0	0	TRUE	42,1%	215,5259437	0	0	TRUE	26,0%
2144	1	1326,332524	Empty	672,2578416	470,2000609	131,8845587	0,099435516	FALSE	474,7007785	0,07094412	474,7007785	420,9531113	178,5849989	0,134645721	FALSE	31,7%	433,3561711	166,1819391	0,125294326	FALSE	32,7%
2144	2	1326,332524	Empty	644,2411599	444,7298886	131,8845587	0,099435516	FALSE	451,7771156	0,07094412	451,7771156	403,4096799	178,5849989	0,134645721	FALSE	30,4%	499,016197	166,1819391	0,125294326	FALSE	37,6%
2144	3	1326,332524	Empty	629,5090171	411,4025741	131,8845587	0,099435516	FALSE	399,8546295	0,07094412	399,8546295	501,9697324	178,5849989	0,134645721	FALSE	37,8%	393,9601555	166,1819391	0,125294326	FALSE	29,7%
2145	1	1038,620696	Non-Empty	821,5047459	336,008664	0	0	TRUE	319,7088554	0	348,7975275	335,4230398	0	0	TRUE	32,3%	412,7851482	0	0	TRUE	39,7%
2145	2	1038,620696	Non-Empty	844,2683844	375,6703344	0	0	TRUE	376,2685578	0	358,4625974	344,7175069	0	0	TRUE	33,2%	319,5755986	0	0	TRUE	30,8%
2145	3	1038,620696	Non-Empty	780,4363852	326,9416971	0	0	TRUE	342,6432824	0	331,3605707	358,4801489	0	0	TRUE	34,5%	306,2599487	0	0	TRUE	29,5%
2146	1	1569,376446	Empty	772,37525	509,3554261	205,9672139	0,131241433	FALSE	513,9444273	0,02539479	513,9444273	516,3560484	220,6879809	0,140621443	FALSE	32,9%	565,705463	377,8472411	0,240762656	FALSE	36,0%
2146	2	1569,376446	Empty	766,8186692	497,4765021	205,9672139	0,131241433	FALSE	495,7431602	0,02539479	495,7431602	512,6413073	220,6879809	0,140621443	FALSE	32,7%	620,4511529	377,8472411	0,240762656	FALSE	39,5%
2146	3	1569,376446	Empty	833,0090021	562,5445175	205,9672139	0,131241433	FALSE	559,6888582	0,02539479	559,6888582	540,3790899	220,6879809	0,140621443	FALSE	34,4%	383,2198298	377,8472411	0,240762656	FALSE	24,4%
2147	1	1288,706607	Empty	671,2812556	426,4338649	148,8454055	0,115499839	FALSE	411,3309991	0,071093669	411,3309991	435,0502718	158,0823833	0,122667473	FALSE	33,8%	467,3331651	220,3219385	0,170963614	FALSE	36,3%
2147	2	1288,706607	Empty	631,1679773	408,4327101	148,8454055	0,115499839	FALSE	415,4419678	0,071093669	415,4419678	409,053281	158,0823833	0,122667473	FALSE	31,7%	439,009943	220,3219385	0,170963614	FALSE	34,1%
2147	3	1288,706607	Empty	675,4909485	453,8400317	148,8454055	0,115499839	FALSE	461,9336399	0,071093669	461,9336399	444,6030539	158,0823833	0,122667473	FALSE	34,5%	382,3634987	220,3219385	0,170963614	FALSE	29,7%
2148	1	1481,856987	Empty	733,3608812	551,0378549	207,429013	0,139979104	FALSE	581,4781534	0,288500576	581,4781534	480,8903757	266,2928154	0,179702102	FALSE	32,5%	535,1150232	212,0681679	0,14310974	FALSE	36,1%
2148	2	1481,856987	Empty	733,8996025	448,9720039	207,429013	0,139979104	FALSE	376,8077302	0,288500576	376,8077302	481,2436341	266,2928154	0,179702102	FALSE	32,5%	411,6269409	212,0681679	0,14310974	FALSE	27,8%
2148	3	1481,856987	Empty	652,8864782	481,8471286	207,429013	0,139979104	FALSE	523,5711038	0,288500576	523,5711038	519,7229775	266,2928154	0,179702102	FALSE	35,1%	535,1150232	212,0681679	0,14310974	FALSE	36,1%
2149	1	1280,875627	Empty	697,2760898	460,7827493	174,5099279	0,13624268	FALSE	448,8712527	0,070095973	448,8712527	425,3873747	172,9340899	0,135012398	FALSE	33,2%	492,6444721	181,324145	0,141562648	FALSE	38,5%
2149	2	1280,875627	Empty	676,8677933	439,1377301	174,5099279	0,13624268	FALSE	425,9895107	0,070095973	425,9895107	412,9368809	172,9340899	0,135012398	FALSE	32,2%	394,1155777	181,324145	0,141562648	FALSE	30,8%
2149	3	1280,875627	Empty	580,4772759	380,955148	174,5099279	0,13624268	FALSE	406,014864	0,070095973	406,014864	442,5513718	172,9340899	0,135012398	FALSE	34,6%	394,1155777	181,324145	0,141562648	FALSE	30,8%
2150	1	1644,978838	Empty	877,5205908	556,7176345	187,5790075	0,114031259	FALSE	532,5030726	0,10719891	532,5030726	541,6406904	165,562694	0,100647309	FALSE	32,9%	643,6873713	237,4092167	0,144323569	FALSE	39,1%
2150	2	1644,978838	Empty	862,7313714	555,6654657	187,5790075	0,114031259	FALSE	545,1879543	0,10719891	545,1879543	532,5121946	165,562694	0,100647309	FALSE	32,4%	518,525938	237,4092167	0,144323569	FALSE	31,5%
2150	3	1644,978838	Empty	794,4920588	532,5957376	187,5790075	0,114031259	FALSE	567,2878108	0,10719891	567,2878108	570,8259526	165,562694	0,100647309	FALSE	34,7%	482,7655285	237,4092167	0,144323569	FALSE	29,3%
2151	1	1386,541692	Empty	683,5491294	463,2305885	224,4023383	0,161843196	FALSE	457,0606314	0,041006472	457,0606314	458,786473	239,7067898	0,172881055	FALSE	33,1%	452,1331603	218,991182	0,157940568	FALSE	32,6%
2151	2	1386,541692	Empty	666,3716525	462,5616961	224,4023383	0,161843196	FALSE	472,9003236	0,041006472	472,9003236	447,2572446	239,7067898	0,172881055	FALSE	32,3%	482,275371	218,991182	0,157940568	FALSE	34,8%
2151	3	1386,541692	Empty	679,0666613	460,749407	224,4023383	0,161843196	FALSE	456,5807365	0,041006472	456,5807365	480,4979738	239,7067898	0,172881055	FALSE	34,7%	452,1331603	218,991182	0,157940568	FALSE	32,6%
2152	1	1063,550593	Non-Empty	761,5057644	348,5192318	0	0	TRUE	372,5701375	0	341,0588949	320,1467219	0	0	TRUE	30,1%	364,6459176	0	0	TRUE	34,3%
2152	2	1063,550593	Non-Empty	819,0025791	390,6547209	0	0	TRUE	399,344301	0	366,8102431	344,3191151	0	0	TRUE	32,4%	354,5168643	0	0	TRUE	33,3%
2152	3	1063,550593	Non-Empty	794,1545643	324,3766402	0	0	TRUE	291,6361543	0	355,6815458	399,0847559	0	0	TRUE	37,5%	344,387811	0	0	TRUE	32,4%
2153	1	1200,61285	Empty	557,6192779	419,8900336	200,1999765	0,166748154	FALSE	407,6150251	0,068492166	407,6150251	391,0924357	240,6862468	0,200469491	FALSE	32,6%	400,2042832	262,5573983	0,218686147	FALSE	33,3%
2153	2	1200,61285	Empty	520,2789637	405,3896645	200,1999765	0,166748154	FALSE	415,9546011	0,068492166	415,9546011	364,9033942	240,6862468	0,200469491	FALSE	30,4%	343,0322427	262,5573983	0,218686147	FALSE	28,6%
2153	3	1200,61285	Empty	499,0773153	375,3331514	200,1999765	0,166748154	FALSE	377,0432233	0,068492166	377,0432233	444,6170197	240,6862468	0,200469491	FALSE	37,0%	457,3763237	262,5573983	0,218686147	FALSE	38,1%
2154	1	555,1328312	Non-Empty	449,9285269	190,8884475	0	0	TRUE	188,0725789	0	188,6758318	179,8957967	0	0	TRUE	32,4%	170,3873046	0	0	TRUE	30,7%
2154	2	555,1328312	Non-Empty	458,3434804	197,2174798	0	0	TRUE	192,3156899	0	192,2046108	183,2603639	0	0	TRUE	33,0%	181,380034	0	0	TRUE	32,7%
2154	3	555,1328312	Non-Empty	415,5334561	167,0269039	0	0	TRUE	174,7445625	0	174,2523885	191,9766706	0	0	TRUE	34,6%	203,3654926	0	0	TRUE	36,6%
2155	1	805,8432676	Non-Empty	612,6968242	284,6604262	0	0	TRUE	285,7556441	0	275,3329893	272,9662305	0	0	TRUE	33,9%	239,8343058	0	0	TRUE	29,8%
2155	2	805,8432676	Non-Empty	564,2019693	241,4601547	0	0	TRUE	247,8499561	0	253,5404276	251,3609973	0	0	TRUE	31,2%	297,3945392	0	0	TRUE	36,9%
2155	3	805,8432676	Non-Empty	616,3393219	279,7226867	0	0	TRUE	272,2376674	0	276,9698507	281,5160398	0	0	TRUE	34,9%	268,6144225	0	0	TRUE	33,3%
2156	1	1691,093358	Empty	845,2002094	552,1653701	199,8415847	0,118173005	FALSE	560,14												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2171	1	1590,003904	Empty	760,5991842	516,6535917	267,6617025	0,16834028	FALSE	502,0814907	0,086609907	502,0814907	521,639249	265,1955157	0,166789223	FALSE	32,8%	629,0125336	367,3387817	0,231030113	FALSE	39,6%
2171	2	1590,003904	Empty	771,9254868	536,8589741	267,6617025	0,16834028	FALSE	531,1659527	0,086609907	531,1659527	529,40713	265,1955157	0,166789223	FALSE	33,3%	524,1771113	367,3387817	0,231030113	FALSE	33,0%
2171	3	1590,003904	Empty	745,5997077	536,4913386	267,6617025	0,16834028	FALSE	556,756461	0,086609907	556,756461	538,9575254	265,1955157	0,166789223	FALSE	33,9%	436,8142595	367,3387817	0,231030113	FALSE	27,5%
2172	1	1072,942408	Non-Empty	760,4661215	368,5264426	0	0	TRUE	391,1228315	0	352,9416203	325,9416203	0	0	TRUE	30,4%	371,8117257	0	0	TRUE	34,7%
2172	2	1072,942408	Non-Empty	756,0349243	384,3778961	0	0	TRUE	427,2569356	0	350,1680164	324,0423752	0	0	TRUE	30,2%	382,4349179	0	0	TRUE	35,6%
2172	3	1072,942408	Non-Empty	800,0495658	320,0380697	0	0	TRUE	254,5626414	0	370,5540055	422,958413	0	0	TRUE	39,4%	318,6957649	0	0	TRUE	29,7%
2173	1	1746,497194	Empty	819,5599735	561,3504171	185,7561554	0,106359264	FALSE	589,1097161	0,143109726	589,1097161	545,4723488	201,6342237	0,115450643	FALSE	31,2%	593,4699204	169,256791	0,096912146	FALSE	34,0%
2173	2	1746,497194	Empty	871,6112687	543,7155931	185,7561554	0,106359264	FALSE	501,788773	0,143109726	501,788773	580,1159907	201,6342237	0,115450643	FALSE	33,2%	508,6885032	169,256791	0,096912146	FALSE	29,1%
2173	3	1746,497194	Empty	913,2325187	641,4311843	185,7561554	0,106359264	FALSE	655,5987054	0,143109726	655,5987054	620,908855	201,6342237	0,115450643	FALSE	35,6%	644,3387708	169,256791	0,096912146	FALSE	36,9%
2174	1	619,0978173	Non-Empty	398,1734248	186,8578702	0	0	TRUE	204,4798396	0	188,7635631	174,4678075	0	0	TRUE	28,2%	197,8560035	0	0	TRUE	32,0%
2174	2	619,0978173	Non-Empty	497,823994	248,7712299	0	0	TRUE	228,6559897	0	236,0052808	218,131737	0	0	TRUE	35,2%	229,7682621	0	0	TRUE	37,1%
2174	3	619,0978173	Non-Empty	409,9129704	183,4687173	0	0	TRUE	185,9619881	0	194,3289734	226,4982728	0	0	TRUE	36,6%	191,4735518	0	0	TRUE	30,9%
2175	1	1771,475864	Empty	882,9149803	582,7078425	257,734255	0,14549126	FALSE	570,197681	0,081729388	570,197681	570,2852876	305,6996793	0,172567792	FALSE	32,2%	590,4919546	305,8460131	0,172650398	FALSE	33,3%
2175	2	1771,475864	Empty	882,9013706	618,2149212	257,734255	0,14549126	FALSE	641,2794481	0,081729388	641,2794481	570,2764969	305,6996793	0,172567792	FALSE	32,2%	570,1301631	305,8460131	0,172650398	FALSE	32,2%
2175	3	1771,475864	Empty	868,750442	570,5261002	257,734255	0,14549126	FALSE	559,9987348	0,081729388	559,9987348	630,9140793	305,6996793	0,172567792	FALSE	35,6%	610,8537462	305,8460131	0,172650398	FALSE	34,5%
2176	1	520,9339076	Non-Empty	392,9526724	141,4075956	0	0	TRUE	152,5324911	0	156,3874379	151,5079979	0	0	TRUE	29,1%	164,8525024	0	0	TRUE	31,6%
2176	2	520,9339076	Non-Empty	473,4322828	206,8271126	0	0	TRUE	202,8919148	0	188,4167406	182,5379552	0	0	TRUE	35,0%	151,6643022	0	0	TRUE	29,1%
2176	3	520,9339076	Non-Empty	442,5588695	172,6991995	0	0	TRUE	165,5095018	0	176,1297291	186,8879546	0	0	TRUE	35,9%	204,417103	0	0	TRUE	39,2%
2177	1	1218,020195	Empty	667,5736252	421,8985975	144,8433546	0,118917039	FALSE	407,8676804	0,047079343	407,8676804	404,9366225	155,2281801	0,127443027	FALSE	33,2%	468,4693058	199,8492339	0,16407711	FALSE	38,5%
2177	2	1218,020195	Empty	647,2798397	416,1046749	144,8433546	0,118917039	FALSE	416,5736207	0,047079343	416,5736207	392,6268238	155,2281801	0,127443027	FALSE	32,2%	348,00577	199,8492339	0,16407711	FALSE	28,6%
2177	3	1218,020195	Empty	598,099062	380,0169228	144,8433546	0,118917039	FALSE	393,5788941	0,047079343	393,5788941	420,4567488	155,2281801	0,127443027	FALSE	34,5%	401,5451193	199,8492339	0,16407711	FALSE	33,0%
2178	1	1154,783304	Non-Empty	831,357234	363,8776327	0	0	TRUE	347,1672838	0	382,9288327	382,1537735	0	0	TRUE	33,1%	321,5852238	0	0	TRUE	27,8%
2178	2	1154,783304	Non-Empty	791,951564	369,0773573	0	0	TRUE	396,972403	0	364,7783113	364,0399893	0	0	TRUE	31,5%	365,4377544	0	0	TRUE	31,6%
2178	3	1154,783304	Non-Empty	883,7822629	421,8283138	0	0	TRUE	410,643617	0	407,0761598	408,5895409	0	0	TRUE	35,4%	467,7603256	0	0	TRUE	40,5%
2179	1	1120,847193	Empty	545,8044413	354,8100408	145,4997169	0,129812269	FALSE	347,0745117	0,067211733	347,0745117	359,4783084	144,9705303	0,129340138	FALSE	33,2%	394,1440679	160,7343517	0,14340434	FALSE	35,2%
2179	2	1120,847193	Empty	565,4016572	381,2924539	145,4997169	0,129812269	FALSE	380,4421221	0,067211733	380,4421221	372,3854478	144,9705303	0,129340138	FALSE	33,2%	357,1930615	160,7343517	0,14340434	FALSE	31,9%
2179	3	1120,847193	Empty	559,4177092	384,7446985	145,4997169	0,129812269	FALSE	393,3305593	0,067211733	393,3305593	388,983437	144,9705303	0,129340138	FALSE	34,7%	369,5100637	160,7343517	0,14340434	FALSE	33,0%
2180	1	943,9564526	Non-Empty	784,0313707	339,6294909	0	0	TRUE	344,2341066	0	323,0463054	312,04008751	0	0	TRUE	33,1%	291,3445841	0	0	TRUE	30,9%
2180	2	943,9564526	Non-Empty	766,8071221	309,1798717	0	0	TRUE	300,5592805	0	315,9493574	305,1857034	0	0	TRUE	32,3%	361,2672843	0	0	TRUE	38,3%
2180	3	943,9564526	Non-Empty	740,1379374	295,1471718	0	0	TRUE	299,1630655	0	304,9607899	326,7298741	0	0	TRUE	34,6%	291,3445841	0	0	TRUE	30,9%
2181	1	816,4360915	Non-Empty	574,7498301	262,4582456	0	0	TRUE	283,927911	0	258,1511706	245,6059239	0	0	TRUE	30,1%	288,6390223	0	0	TRUE	35,4%
2181	2	816,4360915	Non-Empty	663,1139355	282,9759448	0	0	TRUE	236,5992042	0	297,8402597	283,3662617	0	0	TRUE	34,7%	230,9112178	0	0	TRUE	28,3%
2181	3	816,4360915	Non-Empty	579,8560758	271,0019011	0	0	TRUE	295,9089763	0	260,4446612	287,4639059	0	0	TRUE	35,2%	296,8858515	0	0	TRUE	36,4%
2182	1	631,0290219	Non-Empty	472,5652747	213,0202898	0	0	TRUE	216,9318522	0	209,7950495	189,3574217	0	0	TRUE	30,0%	229,4650989	0	0	TRUE	36,4%
2182	2	631,0290219	Non-Empty	531,9872797	244,3837667	0	0	TRUE	220,236801	0	236,1754104	213,167884	0	0	TRUE	33,8%	222,2943145	0	0	TRUE	35,2%
2182	3	631,0290219	Non-Empty	416,8461095	173,6249655	0	0	TRUE	193,8603687	0	185,058562	228,5037162	0	0	TRUE	36,2%	179,2696085	0	0	TRUE	28,4%
2183	1	883,9234082	Non-Empty	607,7190639	307,8043033	0	0	TRUE	297,8236461	0	306,306226	305,916757	0	0	TRUE	34,6%	307,8834343	25,45307976	0,028795572	FALSE	34,8%
2183	2	883,9234082	Non-Empty	538,0621229	261,0619026	0	0	TRUE	273,9957857	0	271,1973147	270,8524868	0	0	TRUE	30,6%	327,7468817	25,45307976	0,028795572	FALSE	37,1%
2183	3	883,9234082	Non-Empty	607,9445315	315,0572023	0	0	TRUE	312,1039765	0	306,4189675	307,1541645	0	0	TRUE	34,7%	248,2930922	25,45307976	0,028795572	FALSE	28,1%
2184	1	1041,568176	Non-Empty	781,0194419	341,9361051	0	0	TRUE	326,534047	0	351,7602568	331,0710097	0	0	TRUE	31,8%	361,3603875	0	0	TRUE	34,7%
2184	2	1041,568176	Non-Empty	822,993692	388,7470089	0	0	TRUE	378,1816046	0	370,668732	348,863726	0	0	TRUE	33,5%	361,3603875	0	0	TRUE	34,7%
2184	3	1041,568176	Non-Empty	708,5988784	310,8850618	0	0	TRUE	336,8525241	0	319,1430457	361,63344	0	0	TRUE	34,7%	318,8474007	0	0	TRUE	30,6%
2185	1	1404,958664	Empty	723,3867722	453,7478531	162,6212483	0,115748066	FALSE	457,6890507	0,030089622	457,6890507	449,004258	164,7903355	0,117291946	FALSE	32,0%	398,9388799	214,8557136	0,152926715	FALSE	28,4%
2185	2	1404,958664	Empty	766,520034	482,4830143	162,6212483	0,115748066	FALSE	472,0261112	0,030089622	472,0261112	475,7769597	164,7903355	0,117291946	FALSE	33,9%	485,6647234	214,8557136	0,152926715	FALSE	34,6%
2185	3	1404,958664	Empty	735,7922079	468,7277967	162,6212483	0,115748066	FALSE	475,2435022	0,030089622	475,2435022	480,1774464	164,7903355	0,117291946	FALSE	34,2%	520,3550608	214,8557136	0,152926715	FALSE	37,0%
2186	1	932,8117338	Non-Empty	621,6978675	318,449927	0	0	TRUE	304,3784438	0	322,1206602	289,9776292	8,995068561	0,009642962	FALSE	31,1%	290,208095	0,00637985	0,00637985	FALSE	31,1%
2186	2	932,8117338	Non-Empty	637,8872094	359,9711571	0	0	TRUE	371,2315623	0	330,5088529	297,5288003	8,995068561	0,009642962	FALSE	31,9%	300,5726698	5,951199064	0,00637985	FALSE	32,2%
2186	3	932,8117338	Non-Empty	540,7560291	254,3906497	0	0	TRUE	257,2017277	0	280,1822207	345,3053044	8,995068561	0,009642962	FALSE	37,0%	342,0309691	5,951199064	0,00637985	FALSE	36,7%
2187	1	1088,255357	Non-Empty	780,1063069	340,455153	0	0	TRUE	345,8896212	0	350,2993958	343,6265454	0	0	TRUE	31,6%	417,5863579	0	0	TRUE	38,4%
2187	2	1088,255357	Non-Empty	816,1012311	379,9914033	0	0	TRUE	388,9671978	0	366,4625777	359,481									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2202	1	804,3783714	Non-Empty	585,0796274	250,8716687	0	0	TRUE	262,0153377	0	255,7144611	256,7206987	0	0	TRUE	31,9%	332,8462226	0	0	TRUE	41,4%
2202	2	804,3783714	Non-Empty	551,4410661	230,6666466	0	0	TRUE	255,2438548	0	241,0124169	241,9608018	0	0	TRUE	30,1%	277,3718522	0	0	TRUE	34,5%
2202	3	804,3783714	Non-Empty	703,9125607	322,840056	0	0	TRUE	287,1191789	0	307,6514934	305,6968708	0	0	TRUE	38,0%	194,1602965	0	0	TRUE	24,1%
2203	1	909,4241416	Non-Empty	708,3782554	318,8648675	0	0	TRUE	309,2114465	0	314,4045954	310,8149962	0	0	TRUE	34,2%	272,8272425	0	0	TRUE	30,0%
2203	2	909,4241416	Non-Empty	646,9543325	280,1729719	0	0	TRUE	293,2515781	0	287,1423757	283,8640329	0	0	TRUE	31,2%	353,664944	0	0	TRUE	38,9%
2203	3	909,4241416	Non-Empty	693,6714545	310,3863023	0	0	TRUE	306,961117	0	307,8771706	314,7451125	0	0	TRUE	34,6%	282,9319552	0	0	TRUE	31,1%
2204	1	1725,070909	Empty	869,0366324	587,8702589	259,2204	0,150266519	FALSE	583,8383922	0,073858514	583,8383922	577,0281134	255,230676	0,14795373	FALSE	33,4%	533,5270853	291,6176002	0,169046732	FALSE	30,9%
2204	2	1725,070909	Empty	845,6917943	554,6750475	259,2204	0,150266519	FALSE	540,7928075	0,073858514	540,7928075	561,527469	255,230676	0,14795373	FALSE	32,6%	551,3113214	291,6176002	0,169046732	FALSE	32,0%
2204	3	1725,070909	Empty	841,7460027	582,5256026	259,2204	0,150266519	FALSE	600,4397094	0,073858514	600,4397094	586,5153266	255,230676	0,14795373	FALSE	34,0%	640,2325023	291,6176002	0,169046732	FALSE	37,1%
2205	1	1133,503959	Non-Empty	732,725412	328,6256362	0	0	TRUE	353,124217	0	343,3007435	355,2882139	0	0	TRUE	31,3%	413,3955615	0	0	TRUE	36,5%
2205	2	1133,503959	Non-Empty	783,6764083	346,0089556	0	0	TRUE	336,9398596	0	367,1725987	379,9936331	0	0	TRUE	33,5%	400,0602208	0	0	TRUE	35,3%
2205	3	1133,503959	Non-Empty	902,8972086	458,8693672	0	0	TRUE	443,4398824	0	423,0306169	398,2221121	0	0	TRUE	35,1%	320,0481767	0	0	TRUE	28,2%
2206	1	1609,504478	Empty	829,7342591	569,0833616	221,7460643	0,137772878	FALSE	568,2524396	0,032810265	568,2524396	543,1774937	241,4242842	0,149999138	FALSE	33,7%	536,5014926	254,0900225	0,157868478	FALSE	33,3%
2206	2	1609,504478	Empty	772,961548	508,5757684	221,7460643	0,137772878	FALSE	504,0099643	0,032810265	504,0099643	506,0117884	241,4242842	0,149999138	FALSE	31,4%	573,5015955	254,0900225	0,157868478	FALSE	35,6%
2206	3	1609,504478	Empty	786,2685973	531,8453478	221,7460643	0,137772878	FALSE	537,2420739	0,032810265	537,2420739	560,3151958	241,4242842	0,149999138	FALSE	34,8%	499,5013897	254,0900225	0,157868478	FALSE	31,0%
2207	1	1227,949583	Empty	672,030665	424,628347	149,9295007	0,12209744	FALSE	407,2653319	0,140454309	407,2653319	416,633362	179,2440179	0,145970177	FALSE	33,9%	400,6993377	180,1915429	0,146741809	FALSE	32,6%
2207	2	1227,949583	Empty	585,3115236	392,1840247	149,9295007	0,12209744	FALSE	429,0982302	0,140454309	429,0982302	362,8695075	179,2440179	0,145970177	FALSE	29,6%	361,9219824	180,1915429	0,146741809	FALSE	29,5%
2207	3	1227,949583	Empty	660,7301066	411,1372117	149,9295007	0,12209744	FALSE	391,5860213	0,140454309	391,5860213	448,4467139	179,2440179	0,145970177	FALSE	36,5%	465,3282631	180,1915429	0,146741809	FALSE	37,9%
2208	1	749,7506558	Non-Empty	515,979874	278,9171253	0	0	TRUE	265,5480421	0	272,2745149	264,7024377	0	0	TRUE	35,3%	234,2970799	0	0	TRUE	31,3%
2208	2	749,7506558	Non-Empty	426,1818363	211,4278067	0	0	TRUE	220,3674427	0	224,8894939	218,6352156	0	0	TRUE	29,2%	265,5366906	0	0	TRUE	35,4%
2208	3	749,7506558	Non-Empty	478,6699423	259,4057238	0	0	TRUE	263,835171	0	252,586647	266,4130025	0	0	TRUE	35,5%	249,9168853	0	0	TRUE	33,3%
2209	1	949,4312759	Non-Empty	637,5686008	249,8032034	0	0	TRUE	167,0452597	0	324,667537	317,8438038	0	0	TRUE	33,5%	251,3200436	0	0	TRUE	26,5%
2209	2	949,4312759	Non-Empty	597,3633003	338,2681164	0	0	TRUE	384,1803861	0	304,1938878	297,8004616	0	0	TRUE	31,4%	353,709691	0	0	TRUE	37,3%
2209	3	949,4312759	Non-Empty	629,5217356	361,359956	0	0	TRUE	398,2056301	0	320,569851	333,7870105	0	0	TRUE	35,2%	344,4015413	0	0	TRUE	36,3%
2210	1	1169,616048	Non-Empty	931,3193417	420,2700009	0	0	TRUE	418,4206946	0	403,8556744	394,56726	0	0	TRUE	33,7%	331,9180678	0	0	TRUE	28,4%
2210	2	1169,616048	Non-Empty	875,6888761	368,0851515	0	0	TRUE	369,6814614	0	379,7321776	370,9985877	0	0	TRUE	31,7%	442,5574237	0	0	TRUE	37,8%
2210	3	1169,616048	Non-Empty	890,2079343	381,2608961	0	0	TRUE	381,5138924	0	386,0281963	404,0502007	0	0	TRUE	34,5%	395,1405569	0	0	TRUE	33,8%
2211	1	1670,695981	Empty	790,6212369	513,3460799	217,9993033	0,130484125	FALSE	514,2248238	0,028247014	514,2248238	502,3198487	239,6987491	0,143472392	FALSE	30,1%	696,1233256	404,4918589	0,242109793	FALSE	41,7%
2211	2	1670,695981	Empty	916,7681993	626,8388014	217,9993033	0,130484125	FALSE	615,0633043	0,028247014	615,0633043	582,4671052	239,6987491	0,143472392	FALSE	34,9%	417,6739953	404,4918589	0,242109793	FALSE	25,0%
2211	3	1670,695981	Empty	797,7682475	530,5111	217,9993033	0,130484125	FALSE	541,4078533	0,028247014	541,4078533	585,9090275	239,6987491	0,143472392	FALSE	35,1%	556,8986605	404,4918589	0,242109793	FALSE	33,3%
2212	1	1494,128177	Empty	842,933327	513,9452124	154,0868753	0,103128284	FALSE	504,1328124	0,036575801	504,1328124	506,574075	163,3284729	0,109313562	FALSE	33,9%	510,1901092	194,6603674	0,13028358	FALSE	34,1%
2212	2	1494,128177	Empty	781,1164561	478,6658492	154,0868753	0,103128284	FALSE	495,3909569	0,036575801	495,3909569	469,4242516	163,3284729	0,109313562	FALSE	31,4%	546,6322598	194,6603674	0,13028358	FALSE	36,6%
2212	3	1494,128177	Empty	827,6055376	501,5171153	154,0868753	0,103128284	FALSE	494,6044076	0,036575801	494,6044076	518,1298502	163,3284729	0,109313562	FALSE	34,7%	437,3058079	194,6603674	0,13028358	FALSE	29,3%
2213	1	913,1605438	Non-Empty	510,1871008	256,44058	0	0	TRUE	291,0044221	0	262,0127793	252,6506752	0	0	TRUE	27,7%	267,9927683	0	0	TRUE	29,3%
2213	2	913,1605438	Non-Empty	658,6520488	354,3302746	0	0	TRUE	338,3188632	0	338,2587557	326,1722701	0	0	TRUE	35,7%	317,6210587	0	0	TRUE	34,8%
2213	3	913,1605438	Non-Empty	609,2524827	302,3896892	0	0	TRUE	283,8372586	0	312,8890088	334,3375986	0	0	TRUE	36,6%	327,5467168	0	0	TRUE	35,9%
2214	1	741,7880138	Non-Empty	523,3403038	217,8045541	0	0	TRUE	237,7043969	0	225,9523551	230,9121702	0	0	TRUE	31,1%	217,5911507	0	0	TRUE	29,3%
2214	2	741,7880138	Non-Empty	557,0204384	222,9899563	0	0	TRUE	214,3950667	0	240,4937648	245,7727741	0	0	TRUE	33,1%	267,043685	0	0	TRUE	36,0%
2214	3	741,7880138	Non-Empty	637,7340494	300,9935035	0	0	TRUE	289,6885501	0	275,3418939	265,1030694	0	0	TRUE	35,7%	257,1531781	0	0	TRUE	34,7%
2215	1	1492,936229	Empty	745,3020089	512,3410826	144,7206724	0,096936942	FALSE	539,1738508	0,236990607	539,1738508	485,6911079	173,2521893	0,11604795	FALSE	32,5%	538,68833	138,0104308	0,092442281	FALSE	36,1%
2215	2	1492,936229	Empty	746,6365822	431,3793179	144,7206724	0,096936942	FALSE	375,9157482	0,236990607	375,9157482	486,5608096	173,2521893	0,11604795	FALSE	32,6%	353,9951883	138,0104308	0,092442281	FALSE	23,7%
2215	3	1492,936229	Empty	780,3787212	549,2158282	144,7206724	0,096936942	FALSE	577,8466298	0,236990607	577,8466298	520,6843113	173,2521893	0,11604795	FALSE	34,9%	600,2527105	138,0104308	0,092442281	FALSE	40,2%
2216	1	1363,540278	Empty	653,3059743	364,2870067	168,3283664	0,123449501	FALSE	291,9348445	0,346473176	291,9348445	424,8081298	221,5435283	0,162476703	FALSE	31,2%	311,2428895	198,6322085	0,145673884	FALSE	22,8%
2216	2	1363,540278	Empty	716,9382958	530,7649848	168,3283664	0,123449501	FALSE	561,2584791	0,346473176	561,2584791	466,1846494	221,5435283	0,162476703	FALSE	34,2%	489,0959692	198,6322085	0,145673884	FALSE	35,9%
2216	3	1363,540278	Empty	643,2964239	468,4882863	168,3283664	0,123449501	FALSE	510,3469542	0,346473176	510,3469542	472,5474987	221,5435283	0,162476703	FALSE	34,7%	563,2014191	198,6322085	0,145673884	FALSE	41,3%
2217	1	833,6528615	Non-Empty	595,6275793	227,0633746	0	0	TRUE	144,470824	0	293,5422564	282,3861817	0	0	TRUE	33,9%	218,9391353	0	0	TRUE	26,3%
2217	2	833,6528615	Non-Empty	551,4151617	301,5544404	0	0	TRUE	337,6653732	0	271,7531162	261,4251379	0	0	TRUE	31,4%	303,1464951	0	0	TRUE	36,4%
2217	3	833,6528615	Non-Empty	544,5250829	305,0350465	0	0	TRUE	351,5166643	0	268,3574889	289,8415419	0	0	TRUE	34,8%	311,5672311	0	0	TRUE	37,4%
2218	1	871,9197432	Non-Empty	661,6030376	313,9725734	0	0	TRUE	313,6890145	0	301,3984683	299,0326503	0	0	TRUE	34,3%	287,4460692	0	0	TRUE	33,0%
2218	2	871,9197432	Non-Empty	591,1491379	251,6344207	0	0	TRUE	259,4666087												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2233	1	1184,765498	Non-Empty	823,7382039	404,5276874	0	0	TRUE	424,6872113	0	389,9261297	378,3001783	0	0	TRUE	31,9%	405,3145124	0	0	TRUE	34,2%
2233	2	1184,765498	Non-Empty	840,3910972	383,578908	0	0	TRUE	366,1367591	0	397,8089719	385,9479874	0	0	TRUE	32,6%	342,9584336	0	0	TRUE	28,9%
2233	3	1184,765498	Non-Empty	838,7463176	396,6589024	0	0	TRUE	393,9415274	0	397,0303962	420,5173321	0	0	TRUE	35,5%	436,4925518	0	0	TRUE	36,8%
2234	1	884,9850416	Non-Empty	541,2505711	257,5714324	0	0	TRUE	262,6620658	0	273,5112216	275,1699448	0	0	TRUE	31,1%	282,0282001	0	0	TRUE	31,9%
2234	2	884,9850416	Non-Empty	574,6614984	289,35433	0	0	TRUE	292,8169338	0	290,3948316	292,1559463	0	0	TRUE	33,0%	311,2035311	0	0	TRUE	35,2%
2234	3	884,9850416	Non-Empty	635,3822885	338,0592792	0	0	TRUE	329,5060421	0	321,0789885	317,6591506	0	0	TRUE	35,9%	291,7533104	0	0	TRUE	33,0%
2235	1	764,504528	Non-Empty	509,3158875	201,8817243	0	0	TRUE	201,7980811	0	230,8694652	228,79327	0	0	TRUE	29,9%	254,8348427	0	0	TRUE	33,3%
2235	2	764,504528	Non-Empty	581,4614868	281,1532015	0	0	TRUE	288,1954363	0	263,57258	261,2022877	0	0	TRUE	34,2%	245,3965152	0	0	TRUE	32,1%
2235	3	764,504528	Non-Empty	595,778714	281,4696023	0	0	TRUE	274,5110106	0	270,0624828	274,5089703	0	0	TRUE	35,9%	264,2731702	0	0	TRUE	34,6%
2236	1	974,033028	Non-Empty	700,9565617	307,9630677	0	0	TRUE	311,2087092	0	315,6882234	310,9565614	0	0	TRUE	31,9%	324,677676	0	0	TRUE	33,3%
2236	2	974,033028	Non-Empty	729,6588904	327,8892662	0	0	TRUE	322,3587775	0	328,6148263	323,6894152	0	0	TRUE	33,2%	336,7027751	0	0	TRUE	34,6%
2236	3	974,033028	Non-Empty	732,1349823	338,1806941	0	0	TRUE	340,4655413	0	329,7299783	339,3870514	0	0	TRUE	34,8%	312,6525769	0	0	TRUE	32,1%
2237	1	805,0244691	Non-Empty	746,3542941	260,3422971	0	0	TRUE	255,2478457	0	267,3011785	258,6969298	0	0	TRUE	32,1%	287,5087389	0	0	TRUE	35,7%
2237	2	805,0244691	Non-Empty	774,9227993	297,4961901	0	0	TRUE	300,9871264	0	277,5327738	268,5991768	0	0	TRUE	33,4%	276,0083894	0	0	TRUE	34,3%
2237	3	805,0244691	Non-Empty	726,5000123	247,1859819	0	0	TRUE	248,789497	0	260,1905168	277,7283624	0	0	TRUE	34,5%	241,5073407	0	0	TRUE	30,0%
2238	1	895,6013628	Empty	451,2850693	299,9858293	91,56236992	0,10223563	FALSE	303,1491561	0,024683499	285,3348717	106,2133275	0,118594424	FALSE	31,9%	295,2531965	97,8069053	0,10920808	FALSE	33,0%	
2238	2	895,6013628	Empty	455,6268781	297,9917984	91,56236992	0,10223563	FALSE	294,8192855	0,024683499	294,8192855	288,0800755	106,2133275	0,118594424	FALSE	32,2%	285,4114233	97,8069053	0,10920808	FALSE	31,9%
2238	3	895,6013628	Empty	452,0771156	297,6237351	91,56236992	0,10223563	FALSE	297,6329213	0,024683499	297,6329213	322,1864156	106,2133275	0,118594424	FALSE	36,0%	314,936743	97,8069053	0,10920808	FALSE	35,2%
2239	1	1415,050156	Empty	744,0248125	465,0240107	160,1932832	0,113206788	FALSE	458,400572	0,043934913	458,400572	470,0280594	165,2616819	0,116788568	FALSE	33,2%	476,6484737	213,1353314	0,150620337	FALSE	33,7%
2239	2	1415,050156	Empty	712,3941532	455,1141979	160,1932832	0,113206788	FALSE	470,2116056	0,043934913	470,2116056	450,0457992	165,2616819	0,116788568	FALSE	31,8%	402,1721497	213,1353314	0,150620337	FALSE	28,4%
2239	3	1415,050156	Empty	775,7632797	494,9119477	160,1932832	0,113206788	FALSE	486,4379787	0,043934913	486,4379787	494,9762976	165,2616819	0,116788568	FALSE	35,0%	536,2295329	213,1353314	0,150620337	FALSE	37,9%
2240	1	911,7180517	Non-Empty	661,0150376	325,0951173	0	0	TRUE	331,2689609	0	310,9698381	295,4458144	0	0	TRUE	32,4%	336,93928	0	0	TRUE	37,0%
2240	2	911,7180517	Non-Empty	654,1179042	309,2131364	0	0	TRUE	306,4021327	0	307,7251306	292,3630869	0	0	TRUE	32,1%	317,1193223	0	0	TRUE	34,8%
2240	3	911,7180517	Non-Empty	622,8664021	277,4097981	0	0	TRUE	274,0469581	0	293,023083	323,9091504	0	0	TRUE	35,5%	257,6594494	0	0	TRUE	28,3%
2241	1	1325,417522	Empty	736,1504592	479,7371118	140,517974	0,106017894	FALSE	480,7472237	0,036038418	480,7472237	442,0414823	177,9984789	0,134296156	FALSE	33,4%	441,8058406	178,2341206	0,134473943	FALSE	33,3%
2241	2	1325,417522	Empty	695,781658	436,1228504	140,517974	0,106017894	FALSE	433,887502	0,036038418	433,887502	417,8009422	177,9984789	0,134296156	FALSE	31,5%	426,5711565	178,2341206	0,134473943	FALSE	32,2%
2241	3	1325,417522	Empty	665,7557825	409,5575597	140,517974	0,106017894	FALSE	410,7827962	0,036038418	410,7827962	465,5750974	177,9984789	0,134296156	FALSE	35,1%	457,0405248	178,2341206	0,134473943	FALSE	34,5%
2242	1	765,1429448	Non-Empty	435,8402195	221,530558	0	0	TRUE	251,059025	0	222,8165808	210,5055058	0	0	TRUE	27,5%	278,2337981	0	0	TRUE	36,4%
2242	2	765,1429448	Non-Empty	542,6749433	268,2999513	0	0	TRUE	237,7630879	0	277,4341833	262,1053733	0	0	TRUE	34,3%	248,423034	0	0	TRUE	32,5%
2242	3	765,1429448	Non-Empty	518,1421674	275,3124354	0	0	TRUE	276,3208318	0	264,8921806	292,5320657	0	0	TRUE	38,2%	238,4861127	0	0	TRUE	31,2%
2243	1	1279,41884	Empty	561,1383811	390,2772126	178,1542171	0,139246204	FALSE	397,3856644	0,059103355	397,3856644	393,2277284	182,608572	0,14272775	FALSE	30,7%	412,7157549	221,8118511	0,173369224	FALSE	32,3%
2243	2	1279,41884	Empty	619,7089198	430,8210808	178,1542171	0,139246204	FALSE	419,0018442	0,059103355	419,0018442	434,2720779	182,608572	0,14272775	FALSE	33,9%	453,9873304	221,8118511	0,173369224	FALSE	35,5%
2243	3	1279,41884	Empty	629,7773464	457,8700379	178,1542171	0,139246204	FALSE	463,0313317	0,059103355	463,0313317	451,9190339	182,608572	0,14272775	FALSE	35,3%	412,7157549	221,8118511	0,173369224	FALSE	32,3%
2244	1	913,6352844	Non-Empty	662,8046647	318,183418	0	0	TRUE	308,282289	0	315,8926035	305,0703575	0	0	TRUE	33,4%	287,4358198	0	0	TRUE	31,5%
2244	2	913,6352844	Non-Empty	622,3971777	287,9697735	0	0	TRUE	287,9926394	0	296,6344013	286,471927	0	0	TRUE	31,4%	307,9669498	0	0	TRUE	33,7%
2244	3	913,6352844	Non-Empty	631,7842521	307,347169	0	0	TRUE	317,360356	0	301,1082795	322,0929999	0	0	TRUE	35,3%	318,2325148	0	0	TRUE	34,8%
2245	1	994,1553044	Non-Empty	719,3031027	341,7392513	0	0	TRUE	322,5948352	0	345,5563409	333,8280943	0	0	TRUE	33,6%	387,9630456	0	0	TRUE	39,0%
2245	2	994,1553044	Non-Empty	642,9711716	314,9843566	0	0	TRUE	345,4169769	0	308,886149	298,4024956	0	0	TRUE	30,0%	290,9722842	0	0	TRUE	29,3%
2245	3	994,1553044	Non-Empty	707,139336	337,4316965	0	0	TRUE	326,1434923	0	339,7128145	361,9247145	0	0	TRUE	36,4%	315,2199746	0	0	TRUE	31,7%
2246	1	702,2855084	Non-Empty	509,1089614	197,7526058	0	0	TRUE	152,31664	0	238,35248	222,499422	0	0	TRUE	31,7%	181,0014197	0	0	TRUE	25,8%
2246	2	702,2855084	Non-Empty	537,2813023	276,4216766	0	0	TRUE	281,4824407	0	251,5420874	234,8117756	0	0	TRUE	33,4%	275,1221579	0	0	TRUE	39,2%
2246	3	702,2855084	Non-Empty	453,6564142	228,1112261	0	0	TRUE	268,4864278	0	212,390941	244,9743109	0	0	TRUE	34,9%	246,1619308	0	0	TRUE	35,1%
2247	1	1178,752814	Empty	599,96239	411,277714	185,7471941	0,157579428	FALSE	403,0480229	0,073726527	403,0480229	397,4287113	175,2280253	0,148655446	FALSE	33,7%	433,0112378	209,5793711	0,177797557	FALSE	36,7%
2247	2	1178,752814	Empty	571,1639994	382,800225	185,7471941	0,157579428	FALSE	374,8914355	0,073726527	374,8914355	378,3520033	175,2280253	0,148655446	FALSE	32,1%	384,8988781	209,5793711	0,177797557	FALSE	32,7%
2247	3	1178,752814	Empty	548,9913796	384,6748752	185,7471941	0,157579428	FALSE	400,8133557	0,073726527	400,8133557	402,9720995	175,2280253	0,148655446	FALSE	34,2%	360,8426982	209,5793711	0,177797557	FALSE	30,6%
2248	1	818,979916	Non-Empty	581,3709594	303,8246219	0	0	TRUE	293,877901	0	293,5857526	268,8739465	0	0	TRUE	32,8%	265,3033531	0	0	TRUE	32,4%
2248	2	818,979916	Non-Empty	561,3708573	288,8395169	0	0	TRUE	283,9077932	0	283,4859275	259,6242475	0	0	TRUE	31,7%	253,7684247	0	0	TRUE	31,0%
2248	3	818,979916	Non-Empty	479,0369491	226,3157772	0	0	TRUE	241,1942219	0	241,908236	290,4817221	0	0	TRUE	35,5%	299,9081383	0	0	TRUE	36,6%
2249	1	783,7786026	Non-Empty	716,5514229	295,6379724	0	0	TRUE	291,9837337	0	275,9037861	268,4590017	0	0	TRUE	34,3%	238,5413138	0	0	TRUE	30,4%
2249	2	783,7786026	Non-Empty	628,1932868	227,6240708	0	0	TRUE	244,3140666	0	241,8820209	235,3552547	0	0	TRUE	30,0%	227,1822036	0	0	TRUE	29,0%
2249	3	783,7786026	Non-Empty	690,8115283	260,5165594	0	0	TRUE	247,4808022	0	265,9927956	279,9643461	0	0	TRUE	35,7%	318,0550851	0	0	TRUE	40,6%
2250	1	1041,229493	Non-Empty	789,6436902	400,0785008	0	0	TRUE	389,0647156	0											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2264	1	1112,003089	Non-Empty	838,0330366	401,4770641	0	0	TRUE	407,5430003	0	381,9448486	370,6153326	0	0	TRUE	33,3%	378,554243	0	0	TRUE	34,0%
2264	2	1112,003089	Non-Empty	805,1412245	356,9195831	0	0	TRUE	351,3198505	0	366,9539621	356,0691162	0	0	TRUE	32,0%	425,8735234	0	0	TRUE	38,3%
2264	3	1112,003089	Non-Empty	796,6945541	353,6064417	0	0	TRUE	353,1402382	0	363,1042782	385,3186401	0	0	TRUE	34,7%	307,5753225	0	0	TRUE	27,7%
2265	1	882,6893039	Empty	527,1971383	311,3265426	54,68403757	0,061951626	FALSE	280,303067	0,134513961	280,303067	301,6353277	76,35707789	0,086505045	FALSE	34,2%	242,3068677	74,45163245	0,084346363	FALSE	27,5%
2265	2	882,6893039	Empty	465,4868942	293,4346453	54,68403757	0,061951626	FALSE	306,2295166	0,134513961	306,2295166	266,3278719	76,35707789	0,086505045	FALSE	30,2%	294,229768	74,45163245	0,084346363	FALSE	33,3%
2265	3	882,6893039	Empty	444,5466317	277,928116	54,68403757	0,061951626	FALSE	296,1567203	0,134513961	296,1567203	314,7261043	76,35707789	0,086505045	FALSE	35,7%	346,1526682	74,45163245	0,084346363	FALSE	39,2%
2266	1	1179,70463	Empty	594,9646423	401,5998824	192,3684516	0,163064929	FALSE	392,3713463	0,064307093	392,3713463	395,2814498	181,2632664	0,153651399	FALSE	33,5%	359,0405394	210,4646676	0,178404545	FALSE	30,4%
2266	2	1179,70463	Empty	580,7994139	390,6571355	192,3684516	0,163064929	FALSE	384,6510808	0,064307093	384,6510808	385,870383	181,2632664	0,153651399	FALSE	32,7%	371,8634158	210,4646676	0,178404545	FALSE	31,5%
2266	3	1179,70463	Empty	556,3492444	387,4476116	192,3684516	0,163064929	FALSE	402,6822025	0,064307093	402,6822025	398,5527968	181,2632664	0,153651399	FALSE	33,8%	448,8006743	210,4646676	0,178404545	FALSE	38,0%
2267	1	1458,546328	Empty	756,2368382	505,2151445	206,6414831	0,141676325	FALSE	495,4721291	0,039737702	495,4721291	482,4460097	204,8911049	0,140476241	FALSE	33,1%	437,5638985	248,6597	0,170484609	FALSE	30,0%
2267	2	1458,546328	Empty	739,4473819	492,0217051	206,6414831	0,141676325	FALSE	485,8747068	0,039737702	485,8747068	471,7350713	204,8911049	0,140476241	FALSE	32,3%	452,1493617	248,6597	0,170484609	FALSE	31,0%
2267	3	1458,546328	Empty	686,6981431	461,3094785	206,6414831	0,141676325	FALSE	477,1994923	0,039737702	477,1994923	504,3652472	204,8911049	0,140476241	FALSE	34,6%	568,833068	248,6597	0,170484609	FALSE	39,0%
2268	1	837,3743377	Non-Empty	567,946938	300,0816898	0	0	TRUE	306,336327	0	286,5424175	284,1470401	0	0	TRUE	33,9%	236,6492694	10,29766866	0,012297569	FALSE	28,3%
2268	2	837,3743377	Non-Empty	504,8655299	232,9665583	0	0	TRUE	235,1874722	0	254,7187472	252,5870576	0	0	TRUE	30,2%	318,5663241	10,29766866	0,012297569	FALSE	38,0%
2268	3	837,3743377	Non-Empty	586,9215261	304,3260896	0	0	TRUE	295,8505385	0	296,1155378	300,64024	0	0	TRUE	35,9%	282,1587442	10,29766866	0,012297569	FALSE	33,7%
2269	1	1160,788469	Non-Empty	834,4381903	352,9211542	0	0	TRUE	351,9554427	0	372,1912206	368,1293973	0	0	TRUE	31,7%	377,2562524	0	0	TRUE	32,5%
2269	2	1160,788469	Non-Empty	873,4853207	404,6977226	0	0	TRUE	416,4614491	0	389,6077282	385,3558338	0	0	TRUE	33,2%	348,2365406	0	0	TRUE	30,0%
2269	3	1160,788469	Non-Empty	894,5189318	403,169592	0	0	TRUE	392,371577	0	398,98952	407,3032377	0	0	TRUE	35,1%	435,2956758	0	0	TRUE	37,5%
2270	1	909,9432325	Empty	463,498895	293,2444499	110,6239599	0,121572375	FALSE	273,1972607	0,229005856	273,1972607	283,4403582	78,25630726	0,086001307	FALSE	31,1%	303,3144108	161,1562988	0,177105882	FALSE	33,3%
2270	2	909,9432325	Empty	505,8092191	336,0658562	110,6239599	0,121572375	FALSE	316,5297492	0,229005856	316,5297492	309,3141057	78,25630726	0,086001307	FALSE	34,0%	376,5282341	161,1562988	0,177105882	FALSE	41,4%
2270	3	909,9432325	Empty	391,2568863	280,6329264	110,6239599	0,121572375	FALSE	320,2162225	0,229005856	320,2162225	317,1887686	78,25630726	0,086001307	FALSE	34,9%	320,1005875	161,1562988	0,177105882	FALSE	25,3%
2271	1	938,1267949	Non-Empty	595,9112602	307,7550026	0	0	TRUE	312,000109	0	307,9550536	314,5060406	0	0	TRUE	33,5%	278,9025607	0	0	TRUE	29,7%
2271	2	938,1267949	Non-Empty	562,7031915	270,4550329	0	0	TRUE	270,6082383	0	290,7937861	296,9797093	0	0	TRUE	31,7%	316,934728	0	0	TRUE	33,8%
2271	3	938,1267949	Non-Empty	656,7164352	359,9167594	0	0	TRUE	355,5184476	0	339,379553	326,641045	0	0	TRUE	34,8%	342,2895063	0	0	TRUE	36,5%
2272	1	912,5731217	Non-Empty	604,2728912	352,4070776	0	0	TRUE	380,4650776	0	314,6887949	295,3774768	13,65739842	0,014965813	FALSE	32,4%	271,5991433	37,43573185	0,041022172	FALSE	29,8%
2272	2	912,5731217	Non-Empty	556,185821	265,4090642	0	0	TRUE	254,5561209	0	289,646364	271,8178096	13,65739842	0,014965813	FALSE	29,8%	336,7829378	37,43573185	0,041022172	FALSE	36,9%
2272	3	912,5731217	Non-Empty	591,8858502	294,7569799	0	0	TRUE	277,5519231	0	308,2379628	345,3238352	13,65739842	0,014965813	FALSE	37,8%	304,1910406	37,43573185	0,041022172	FALSE	33,3%
2273	1	774,3689005	Non-Empty	566,429083	262,9764644	0	0	TRUE	257,9511014	0	262,7046931	254,5169902	0	0	TRUE	32,9%	287,1255474	0	0	TRUE	37,1%
2273	2	774,3689005	Non-Empty	547,3603876	247,0202659	0	0	TRUE	245,1073999	0	253,8680044	245,9487385	0	0	TRUE	31,8%	208,8185799	0	0	TRUE	27,0%
2273	3	774,3689005	Non-Empty	555,8611968	264,3721701	0	0	TRUE	271,3103991	0	257,8034029	273,9031717	0	0	TRUE	35,4%	278,4247732	0	0	TRUE	36,0%
2274	1	1338,327547	Empty	625,7044185	386,26303	187,4189198	0,140039649	FALSE	340,9585502	0,226571111	340,9585502	433,7333719	212,290057	0,158623393	FALSE	32,4%	348,5227986	183,215833	0,136899097	FALSE	26,0%
2274	2	1338,327547	Empty	637,7891292	466,9815354	187,4189198	0,140039649	FALSE	490,3108503	0,226571111	490,3108503	442,1103982	212,290057	0,158623393	FALSE	33,0%	501,87283	183,215833	0,136899097	FALSE	37,5%
2274	3	1338,327547	Empty	657,2447251	485,0829813	187,4189198	0,140039649	FALSE	507,0581462	0,226571111	507,0581462	462,4837765	212,290057	0,158623393	FALSE	34,6%	487,9319181	183,215833	0,136899097	FALSE	36,5%
2275	1	1032,468373	Non-Empty	707,0205599	348,3180324	0	0	TRUE	350,9144907	0	344,9198286	327,9891587	0	0	TRUE	31,8%	347,7788202	0	0	TRUE	33,7%
2275	2	1032,468373	Non-Empty	734,7480397	364,1781532	0	0	TRUE	354,9072525	0	358,4466737	340,8520276	0	0	TRUE	33,0%	369,5149965	0	0	TRUE	35,8%
2275	3	1032,468373	Non-Empty	674,5967303	319,9721869	0	0	TRUE	326,6466293	0	329,1018703	363,6271863	0	0	TRUE	35,2%	315,1745558	0	0	TRUE	30,5%
2276	1	1266,401885	Empty	670,1540524	433,8399517	154,0298322	0,121627924	FALSE	402,7222717	0,140741861	402,7222717	436,9214006	176,4363421	0,139320972	FALSE	34,5%	363,9085877	164,0131006	0,1295111	FALSE	28,7%
2276	2	1266,401885	Empty	571,1387552	394,7727501	154,0298322	0,121627924	FALSE	423,6031658	0,140741861	423,6031658	372,3662403	176,4363421	0,139320972	FALSE	29,4%	436,6903052	164,0131006	0,1295111	FALSE	34,5%
2276	3	1266,401885	Empty	640,6983397	437,7891832	154,0298322	0,121627924	FALSE	440,0764475	0,140741861	440,0764475	457,1142441	176,4363421	0,139320972	FALSE	36,1%	465,8029922	164,0131006	0,1295111	FALSE	36,8%
2277	1	1200,318895	Empty	639,2331396	411,1080642	151,8176562	0,126481102	FALSE	392,5669586	0,079940906	392,5669586	402,8790033	156,9085654	0,130722399	FALSE	33,6%	404,6018748	177,1817328	0,147612217	FALSE	33,7%
2277	2	1200,318895	Empty	606,2727607	399,7050672	151,8176562	0,126481102	FALSE	402,7213435	0,079940906	402,7213435	382,105605	156,9085654	0,130722399	FALSE	31,8%	431,5753331	177,1817328	0,147612217	FALSE	36,0%
2277	3	1200,318895	Empty	583,5649046	389,505764	151,8176562	0,126481102	FALSE	405,0305932	0,079940906	405,0305932	415,3342869	156,9085654	0,130722399	FALSE	34,6%	364,1416873	177,1817328	0,147612217	FALSE	30,3%
2278	1	1308,001238	Empty	733,3950515	475,0234038	141,1115518	0,107883347	FALSE	462,0912439	0,029655463	462,0912439	445,8296776	144,5764725	0,110532367	FALSE	34,1%	452,1485762	144,2795891	0,110305392	FALSE	34,6%
2278	2	1308,001238	Empty	664,8372283	419,5332546	141,1115518	0,107883347	FALSE	419,6687688	0,029655463	419,6687688	404,1534867	144,5764725	0,110532367	FALSE	30,9%	403,7040859	144,2795891	0,110305392	FALSE	30,9%
2278	3	1308,001238	Empty	646,0874221	413,4445799	141,1115518	0,107883347	FALSE	426,2412255	0,029655463	426,2412255	458,018074	144,5764725	0,110532367	FALSE	35,0%	452,1485762	144,2795891	0,110305392	FALSE	34,6%
2279	1	709,3416514	Non-Empty	520,2718497	255,7368031	0	0	TRUE	247,6747137	0	249,5674502	240,7581616	0	0	TRUE	33,9%	238,9361352	0	0	TRUE	33,7%
2279	2	709,3416514	Non-Empty	488,4368851	220,7716405	0	0	TRUE	209,579353	0	234,2966433	226,0263871	0	0	TRUE	31,9%	224,0026268	0	0	TRUE	31,6%
2279	3	709,3416514	Non-Empty	470,0517878	232,8332078	0	0	TRUE	252,0875848	0	225,4775579	242,5571028	0	0							

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2295	1	1553,153329	Empty	753,7567687	494,0032315	224,9589288	0,144840129	FALSE	500,7913031	0,010176271	500,7913031	492,2140393	226,748121	0,145992103	FALSE	31,7%	472,6988393	326,8820631	0,210463485	FALSE	30,4%
2295	2	1553,153329	Empty	811,29554	537,7588361	224,9589288	0,144840129	FALSE	530,763741	0,010176271	530,763741	529,7876867	226,748121	0,145992103	FALSE	34,1%	422,0525351	326,8820631	0,210463485	FALSE	27,2%
2295	3	1553,153329	Empty	787,7258465	521,3912615	224,9589288	0,144840129	FALSE	521,5982851	0,010176271	521,5982851	531,1516031	226,748121	0,145992103	FALSE	34,2%	658,4019547	326,8820631	0,210463485	FALSE	42,4%
2296	1	1387,433301	Empty	663,7743221	444,5395132	178,1141734	0,128376747	FALSE	449,720963	0,090409064	449,720963	431,223886	178,8464291	0,128904524	FALSE	31,1%	516,933677	385,398139	0,161933677	FALSE	27,8%
2296	2	1387,433301	Empty	726,4056297	479,0431001	178,1141734	0,128376747	FALSE	456,096829	0,090409064	456,096829	471,9125883	178,8464291	0,128904524	FALSE	34,0%	539,5573946	224,6721761	0,161933677	FALSE	38,9%
2296	3	1387,433301	Empty	670,5021245	463,8506872	178,1141734	0,128376747	FALSE	481,6155085	0,090409064	481,6155085	484,2968262	178,8464291	0,128904524	FALSE	34,9%	462,4777668	224,6721761	0,161933677	FALSE	33,3%
2297	1	1372,774807	Empty	640,4864007	432,088346	207,4711752	0,151132709	FALSE	439,9002877	0,020811162	439,9002877	435,957874	203,6016471	0,148313945	FALSE	31,8%	457,5916023	212,8742594	0,155068594	FALSE	33,3%
2297	2	1372,774807	Empty	674,0132669	459,9355807	207,4711752	0,151132709	FALSE	462,0678909	0,020811162	462,0678909	458,7785011	203,6016471	0,148313945	FALSE	33,4%	457,5916023	212,8742594	0,155068594	FALSE	33,3%
2297	3	1372,774807	Empty	706,9051288	480,7508803	207,4711752	0,151132709	FALSE	470,8066283	0,020811162	470,8066283	478,0384319	203,6016471	0,148313945	FALSE	34,8%	457,5916023	212,8742594	0,155068594	FALSE	33,3%
2298	1	1362,601967	Empty	692,7799078	446,7238848	119,2046976	0,087483139	FALSE	445,4656373	0,057099037	445,4656373	399,2410525	192,8240264	0,141511631	FALSE	29,3%	431,7154746	125,6167908	0,09218891	FALSE	31,7%
2298	2	1362,601967	Empty	797,511444	546,6338465	119,2046976	0,087483139	FALSE	540,5540245	0,057099037	540,5540245	459,5966261	192,8240264	0,141511631	FALSE	33,7%	539,6443433	125,6167908	0,09218891	FALSE	39,6%
2298	3	1362,601967	Empty	606,7039417	369,2442356	119,2046976	0,087483139	FALSE	376,582305	0,057099037	376,582305	503,7642882	192,8240264	0,141511631	FALSE	37,0%	391,2421489	125,6167908	0,09218891	FALSE	28,7%
2299	1	885,513865	Non-Empty	562,7443325	282,0600125	0	0	TRUE	268,9621909	0	295,1642315	284,6029522	0	0	TRUE	32,1%	235,5090066	3,092681114	0,003492527	FALSE	26,6%
2299	2	885,513865	Non-Empty	574,7789758	310,6348326	0	0	TRUE	314,0771876	0	301,4765052	290,6893662	0	0	TRUE	32,8%	282,610808	3,092681114	0,003492527	FALSE	31,9%
2299	3	885,513865	Non-Empty	550,7500516	292,8190199	0	0	TRUE	302,4744865	0	288,8731283	310,2215466	0	0	TRUE	35,0%	367,3940504	3,092681114	0,003492527	FALSE	41,5%
2300	1	1164,227308	Non-Empty	906,1747299	393,0839619	0	0	TRUE	379,1611542	0	396,360898	395,9443209	0	0	TRUE	34,0%	388,0757692	0	0	TRUE	33,3%
2300	2	1164,227308	Non-Empty	824,1545675	358,0670408	0	0	TRUE	391,1474743	0	360,4808996	360,1064009	0	0	TRUE	30,9%	412,3305048	0	0	TRUE	35,4%
2300	3	1164,227308	Non-Empty	931,4018911	413,076305	0	0	TRUE	393,9186791	0	407,3903183	408,1765859	0	0	TRUE	35,1%	363,8210336	0	0	TRUE	31,3%
2301	1	1354,280484	Empty	733,0011149	465,3587073	162,4877456	0,119980866	FALSE	455,1370836	0,071532554	455,1370836	452,3260994	186,6576434	0,137827906	FALSE	33,4%	353,290561	244,3700572	0,180442722	FALSE	26,1%
2301	2	1354,280484	Empty	683,2545971	445,7980242	162,4877456	0,119980866	FALSE	465,7622353	0,071532554	465,7622353	421,6281265	186,6576434	0,137827906	FALSE	31,1%	500,4949614	244,3700572	0,180442722	FALSE	37,0%
2301	3	1354,280484	Empty	710,2871235	443,1237521	162,4877456	0,119980866	FALSE	433,3811647	0,071532554	433,3811647	480,3262577	186,6576434	0,137827906	FALSE	35,5%	500,4949614	244,3700572	0,180442722	FALSE	37,0%
2302	1	875,0464473	Non-Empty	560,8760121	258,529267	0	0	TRUE	247,5013859	0	280,6127552	272,3502255	0	0	TRUE	31,1%	353,9513719	16,19358863	0,018505976	FALSE	40,4%
2302	2	875,0464473	Non-Empty	608,4708196	308,5747123	0	0	TRUE	299,997469	0	304,4249879	295,4613165	0	0	TRUE	33,8%	294,9594766	16,19358863	0,018505976	FALSE	33,7%
2302	3	875,0464473	Non-Empty	579,6562074	307,9424679	0	0	TRUE	327,5475923	0	290,0087042	307,2349052	0	0	TRUE	35,1%	226,1355987	16,19358863	0,018505976	FALSE	25,8%
2303	1	727,7892745	Non-Empty	435,9696223	230,8994714	0	0	TRUE	255,6920161	0	223,8599428	213,0677551	0	0	TRUE	29,3%	239,525584	0	0	TRUE	32,9%
2303	2	727,7892745	Non-Empty	500,4192409	248,0714123	0	0	TRUE	225,8562793	0	256,953276	244,5656734	0	0	TRUE	33,6%	230,3130616	0	0	TRUE	31,6%
2303	3	727,7892745	Non-Empty	480,9884983	248,8183909	0	0	TRUE	246,5109791	0	246,9760557	270,1558461	0	0	TRUE	37,1%	257,950629	0	0	TRUE	35,4%
2304	1	1235,459442	Empty	546,0364535	345,2138445	123,4105674	0,099890424	FALSE	365,9532001	0,04145902	365,9532001	352,8867852	115,7376266	0,093679827	FALSE	28,6%	429,7250234	172,9273803	0,139970099	FALSE	34,8%
2304	2	1235,459442	Empty	665,6899405	440,3987805	123,4105674	0,099890424	FALSE	436,6695851	0,04145902	436,6695851	430,2152018	115,7376266	0,093679827	FALSE	34,8%	443,1539304	172,9273803	0,139970099	FALSE	35,9%
2304	3	1235,459442	Empty	688,4189421	449,4668173	123,4105674	0,099890424	FALSE	432,8366571	0,04145902	432,8366571	452,3574553	115,7376266	0,093679827	FALSE	36,6%	362,5804885	172,9273803	0,139970099	FALSE	29,3%
2305	1	989,5872689	Non-Empty	783,4213052	310,4539431	0	0	TRUE	317,9603753	0	318,9062076	321,0787743	0	0	TRUE	32,4%	368,2185186	0	0	TRUE	37,2%
2305	2	989,5872689	Non-Empty	813,7840143	326,2865398	0	0	TRUE	319,2628596	0	331,2659128	333,5226807	0	0	TRUE	33,7%	299,1775464	0	0	TRUE	30,2%
2305	3	989,5872689	Non-Empty	833,8033324	352,846786	0	0	TRUE	352,3640339	0	339,4151485	334,9858139	0	0	TRUE	33,9%	322,1912038	0	0	TRUE	32,6%
2306	1	651,453823	Non-Empty	453,197629	205,3651838	0	0	TRUE	189,4139737	0	219,1655183	203,9961038	0	0	TRUE	31,3%	214,2940207	0	0	TRUE	32,9%
2306	2	651,453823	Non-Empty	441,3138115	235,7361513	0	0	TRUE	262,0397263	0	213,4185265	198,6468867	0	0	TRUE	30,5%	240,0093032	0	0	TRUE	36,8%
2306	3	651,453823	Non-Empty	452,5860881	210,3524879	0	0	TRUE	200,0001229	0	218,8697782	248,8108325	0	0	TRUE	38,2%	197,1504991	0	0	TRUE	30,3%
2307	1	1085,726886	Empty	575,3738457	400,8960917	140,4229738	0,129335449	FALSE	399,7563079	0,031614412	399,7563079	359,6275522	176,6992328	0,162747405	FALSE	33,1%	322,1387464	214,1880385	0,197276167	FALSE	29,7%
2307	2	1085,726886	Empty	538,6377242	362,5870412	140,4229738	0,129335449	FALSE	359,8743283	0,031614412	359,8743283	336,6662696	176,6992328	0,162747405	FALSE	31,0%	405,6561992	214,1880385	0,197276167	FALSE	37,4%
2307	3	1085,726886	Empty	491,7292266	322,2437532	140,4229738	0,129335449	FALSE	326,09625	0,031614412	326,09625	389,4330644	176,6992328	0,162747405	FALSE	35,9%	357,9319405	214,1880385	0,197276167	FALSE	33,0%
2308	1	1111,888966	Non-Empty	803,8579137	331,3472633	0	0	TRUE	345,3975277	0	347,5698309	350,1481938	0	0	TRUE	31,5%	336,152478	0	0	TRUE	30,2%
2308	2	1111,888966	Non-Empty	871,5953966	378,8108601	0	0	TRUE	372,5872383	0	376,8579739	379,6536038	0	0	TRUE	34,1%	413,7261268	0	0	TRUE	37,2%
2308	3	1111,888966	Non-Empty	896,1183995	401,7308423	0	0	TRUE	393,9041999	0	387,4611611	382,0871682	0	0	TRUE	34,4%	362,010361	0	0	TRUE	32,6%
2309	1	1146,206514	Non-Empty	841,3300978	376,6033043	0	0	TRUE	365,0628954	0	384,8476538	390,7418721	0	0	TRUE	34,1%	386,22176	0	0	TRUE	33,7%
2309	2	1146,206514	Non-Empty	774,4772497	345,0743536	0	0	TRUE	368,8578422	0	354,2673122	359,6931707	0	0	TRUE	31,4%	299,0103949	0	0	TRUE	26,1%
2309	3	1146,206514	Non-Empty	889,9583203	424,5288558	0	0	TRUE	412,285776	0	407,0915476	395,7714708	0	0	TRUE	34,5%	460,9743587	0	0	TRUE	40,2%
2310	1	1079,584994	Empty	490,611031	328,1372046	134,959269	0,125010323	FALSE	349,6282036	0,081009681	349,6282036	318,7137979	144,3826758	0,133739054	FALSE	29,5%	316,2420689	146,8544047	0,136028572	FALSE	29,3%
2310	2	1079,584994	Empty	573,098942	375,5599005	134,959269	0,125010323	FALSE	361,9856844	0,081009681	361,9856844	372,3001091	144,3826758	0,133739054	FALSE	34,5%	392,5763614	146,8544047	0,136028572	FALSE	36,4%
2310	3	1079,584994	Empty	567,7694969	375,887887	134,959269	0,125010323	FALSE	367,9711059	0,081009681	367,9711059	388,5710869	144,3826758	0,133739054	FALSE	36,0%	370,7665635	146,8544047	0,136028572	FALSE	34,3%

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2326	1	759,3356474	Non-Empty	519,2339201	236,6283631	0	0	TRUE	252,6225878	0	238,211884	230,2729492	0	0	TRUE	30,3%	230,3602526	0	0	TRUE	30,3%
2326	2	759,3356474	Non-Empty	578,3400556	273,6894367	0	0	TRUE	267,6385995	0	265,3283403	256,4856899	0	0	TRUE	33,8%	273,0195586	0	0	TRUE	36,0%
2326	3	759,3356474	Non-Empty	557,5610166	249,0178475	0	0	TRUE	239,0744601	0	255,795423	272,5770083	0	0	TRUE	35,9%	255,9558362	0	0	TRUE	33,7%
2327	1	1643,664149	Empty	849,1079607	596,6990426	247,8340315	0,15078143	FALSE	584,6160265	0,047148539	584,6160265	566,5649959	251,4770205	0,152997813	FALSE	34,5%	588,2587482	275,3177423	0,167502432	FALSE	35,8%
2327	2	1643,664149	Empty	754,0143583	511,3634309	247,8340315	0,15078143	FALSE	509,0384054	0,047148539	509,0384054	503,1140463	251,4770205	0,152997813	FALSE	30,6%	467,146653	275,3177423	0,167502432	FALSE	28,4%
2327	3	1643,664149	Empty	761,5195361	535,6016758	247,8340315	0,15078143	FALSE	550,0097174	0,047148539	550,0097174	573,9851071	251,4770205	0,152997813	FALSE	34,9%	588,2587482	275,3177423	0,167502432	FALSE	35,8%
2328	1	1077,486303	Empty	568,836723	396,8010718	142,0557401	0,13183995	FALSE	394,8077361	0,090351487	394,8077361	357,4828451	162,1788682	0,150515944	FALSE	33,2%	328,9168716	190,7448418	0,177027625	FALSE	30,5%
2328	2	1077,486303	Empty	538,0975474	352,8468048	142,0557401	0,13183995	FALSE	337,6383777	0,090351487	337,6383777	338,1649503	162,1788682	0,150515944	FALSE	31,4%	328,9168716	190,7448418	0,177027625	FALSE	30,5%
2328	3	1077,486303	Empty	480,6789794	327,8384268	142,0557401	0,13183995	FALSE	345,0401897	0,090351487	345,0401897	381,838508	162,1788682	0,150515944	FALSE	35,4%	419,6525603	190,7448418	0,177027625	FALSE	38,9%
2329	1	795,0853146	Non-Empty	702,4642798	325,1659152	0	0	TRUE	314,4876284	0	294,7414682	266,2408225	0	0	TRUE	33,5%	305,8020441	0	0	TRUE	38,5%
2329	2	795,0853146	Non-Empty	648,3640251	263,0968949	0	0	TRUE	244,4498424	0	272,0419674	245,7362977	0	0	TRUE	30,9%	203,8680294	0	0	TRUE	25,6%
2329	3	795,0853146	Non-Empty	544,1172428	206,8225044	0	0	TRUE	236,1478437	0	228,301879	283,1081943	0	0	TRUE	35,6%	285,4152411	0	0	TRUE	35,9%
2330	1	1388,447876	Empty	623,7734456	373,1087464	183,9448281	0,132482343	FALSE	320,9132878	0,312481439	320,9132878	426,3705638	203,2668206	0,146398597	FALSE	30,7%	390,9222174	185,7011512	0,133747298	FALSE	28,2%
2330	2	1388,447876	Empty	703,5201179	514,8199777	183,9448281	0,132482343	FALSE	524,5890765	0,312481439	524,5890765	480,880152	203,2668206	0,146398597	FALSE	34,6%	498,7628291	185,7011512	0,133747298	FALSE	35,9%
2330	3	1388,447876	Empty	656,5620337	500,5191253	183,9448281	0,132482343	FALSE	542,9455114	0,312481439	542,9455114	481,1971598	203,2668206	0,146398597	FALSE	34,7%	498,7628291	185,7011512	0,133747298	FALSE	35,9%
2331	1	1097,415854	Non-Empty	770,4796857	362,0039609	0	0	TRUE	384,3659105	0	353,7915417	360,8706162	0	0	TRUE	32,9%	445,8251906	0	0	TRUE	40,6%
2331	2	1097,415854	Non-Empty	778,7103554	287,0670558	0	0	TRUE	226,2614307	0	357,5709293	364,7256262	0	0	TRUE	33,2%	285,7853786	0	0	TRUE	26,0%
2331	3	1097,415854	Non-Empty	840,738836	448,344837	0	0	TRUE	486,7885125	0	386,0533827	371,8196113	0	0	TRUE	33,9%	365,8052846	0	0	TRUE	33,3%
2332	1	705,5862997	Non-Empty	460,197204	239,0842328	0	0	TRUE	273,1037787	0	220,7426288	200,4975641	0	0	TRUE	28,4%	251,995107	0	0	TRUE	35,7%
2332	2	705,5862997	Non-Empty	519,4166397	262,3644599	0	0	TRUE	260,4447973	0	249,1483944	226,2981394	0	0	TRUE	32,1%	259,1949672	0	0	TRUE	36,7%
2332	3	705,5862997	Non-Empty	491,3700075	204,137607	0	0	TRUE	172,0377236	0	235,6952764	278,7905962	0	0	TRUE	39,5%	194,3962254	0	0	TRUE	27,6%
2333	1	1157,748257	Empty	472,4273628	341,9888025	188,5892157	0,162893111	FALSE	354,9357243	0,05507567	354,9357243	335,6802646	194,8977536	0,168342083	FALSE	29,0%	364,2354068	186,9148888	0,161446919	FALSE	31,5%
2333	2	1157,748257	Empty	576,3752033	417,1387188	188,5892157	0,162893111	FALSE	401,2877165	0,05507567	401,2877165	409,539743	194,8977536	0,168342083	FALSE	35,4%	403,2606289	186,9148888	0,161446919	FALSE	34,8%
2333	3	1157,748257	Empty	539,1021377	398,620736	188,5892157	0,162893111	FALSE	401,5248164	0,05507567	401,5248164	412,5282496	194,8977536	0,168342083	FALSE	35,6%	390,2522215	186,9148888	0,161446919	FALSE	33,7%
2334	1	753,870049	Non-Empty	495,5952379	253,1359903	0	0	TRUE	256,0284188	0	250,7605329	252,7074754	0	0	TRUE	33,5%	199,8209768	30,48491285	0,040437888	FALSE	26,5%
2334	2	753,870049	Non-Empty	472,1844591	227,8741682	0	0	TRUE	228,9155533	0	238,9151822	240,7701557	0	0	TRUE	31,9%	336,062552	0,040437888	FALSE	44,6%	
2334	3	753,870049	Non-Empty	522,1453801	272,8598904	0	0	TRUE	268,9260768	0	264,1943339	260,3924179	0	0	TRUE	34,5%	217,9865202	30,48491285	0,040437888	FALSE	28,9%
2335	1	928,0972539	Non-Empty	761,0651793	362,4971952	0	0	TRUE	381,6013195	0	323,8448972	301,3528594	0	0	TRUE	32,5%	329,324832	0	0	TRUE	35,5%
2335	2	928,0972539	Non-Empty	720,2093066	291,6102366	0	0	TRUE	280,683275	0	306,4600973	285,175488	0	0	TRUE	30,7%	269,4475898	0	0	TRUE	29,0%
2335	3	928,0972539	Non-Empty	699,8390934	273,9898221	0	0	TRUE	265,8126593	0	297,7922594	341,5689064	0	0	TRUE	36,8%	329,324832	0	0	TRUE	35,5%
2336	1	818,2886788	Empty	434,0243973	266,0639797	72,70094728	0,08884511	FALSE	242,8398089	0,156446699	242,8398089	256,3590402	114,3701909	0,139767534	FALSE	31,3%	233,7967654	115,325883	0,14093545	FALSE	28,6%
2336	2	818,2886788	Empty	446,9219473	311,0806229	72,70094728	0,08884511	FALSE	319,9755453	0,156446699	319,9755453	263,9770532	114,3701909	0,139767534	FALSE	32,3%	263,0213611	115,325883	0,14093545	FALSE	32,1%
2336	3	818,2886788	Empty	371,5510745	241,1440762	72,70094728	0,08884511	FALSE	255,4733247	0,156446699	255,4733247	297,9525854	114,3701909	0,139767534	FALSE	36,4%	321,4705524	115,325883	0,14093545	FALSE	39,3%
2337	1	817,7992918	Non-Empty	635,4906639	307,7904314	0	0	TRUE	332,5037771	0	277,1694511	250,239029	0	0	TRUE	30,6%	269,8737663	0	0	TRUE	33,0%
2337	2	817,7992918	Non-Empty	635,8453487	301,9909368	0	0	TRUE	320,5501033	0	277,3241469	250,3786943	0	0	TRUE	30,6%	310,7637309	0	0	TRUE	38,0%
2337	3	817,7992918	Non-Empty	603,704014	208,0179236	0	0	TRUE	164,7454114	0	263,3056938	317,1815685	0	0	TRUE	38,8%	237,1617946	0	0	TRUE	29,0%
2338	1	1611,61785	Empty	770,1672382	530,9090185	234,1128143	0,145265712	FALSE	547,2456467	0,057340329	547,2456467	522,7454927	242,27634	0,150331135	FALSE	32,4%	502,5475015	262,4743312	0,162863877	FALSE	31,2%
2338	2	1611,61785	Empty	771,0915419	509,5922329	234,1128143	0,145265712	FALSE	503,6877718	0,057340329	503,6877718	523,3728572	242,27634	0,150331135	FALSE	32,5%	554,5351741	262,4743312	0,162863877	FALSE	34,4%
2338	3	1611,61785	Empty	837,1436134	571,1165984	234,1128143	0,145265712	FALSE	560,6844313	0,057340329	560,6844313	565,4994998	242,27634	0,150331135	FALSE	35,1%	554,5351741	262,4743312	0,162863877	FALSE	34,4%
2339	1	1218,161039	Empty	640,8952712	352,4169488	87,58735057	0,07190129	FALSE	288,9367216	0,292945598	288,9367216	405,2356922	119,2033424	0,097855159	FALSE	33,3%	344,5303949	93,47545639	0,076734893	FALSE	28,3%
2339	2	1218,161039	Empty	601,4993431	411,9417855	87,58735057	0,07190129	FALSE	447,3823231	0,292945598	447,3823231	380,3257936	119,2033424	0,097855159	FALSE	31,2%	406,0536797	93,47545639	0,076734893	FALSE	37,3%
2339	3	1218,161039	Empty	650,7607102	453,8023047	87,58735057	0,07190129	FALSE	481,8419943	0,292945598	481,8419943	432,5995531	119,2033424	0,097855159	FALSE	35,5%	467,5769645	93,47545639	0,076734893	FALSE	38,4%
2340	1	932,2356643	Non-Empty	779,888073	304,543765	0	0	TRUE	298,8604074	0	310,5389227	310,5838023	0	0	TRUE	33,3%	370,3401954	0	0	TRUE	39,7%
2340	2	932,2356643	Non-Empty	778,4683965	302,1307275	0	0	TRUE	295,454009	0	309,9736303	310,0184282	0	0	TRUE	33,3%	293,718086	0	0	TRUE	31,5%
2340	3	932,2356643	Non-Empty	782,8620464	325,5611718	0	0	TRUE	337,9212478	0	311,7231112	311,6334338	0	0	TRUE	33,4%	268,1773829	0	0	TRUE	28,8%
2341	1	1626,215439	Empty	834,4161123	550,2305588	218,4246583	0,134314712	FALSE	548,6212758	0,018724768	548,6212758	542,4380243	223,2622233	0,13728945	FALSE	33,4%	498,9524642	259,5418427	0,159598683	FALSE	30,7%
2341	2	1626,215439	Empty	796,9334999	522,9088567	218,4246583	0,134314712	FALSE	531,460484	0,018724768	531,460484	518,0712918	223,2622233	0,13728945	FALSE	31,9%	609,8307895	259,5418427	0,159598683	FALSE	37,5%
2341	3	1626,215439	Empty	842,5946378	553,0760232	218,4246583	0,134314712	FALSE	546,1336789	0,018724768	546,1336789	565,7061227	223,2622233	0,13728945	FALSE	34,8%	517,4321851	259,5418427	0,159598683	FALSE	31,8%
2342	1	904,0037562	Non-Empty	647,3004873	311,3707035	0	0														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2357	1	759,7594954	Non-Empty	522,9451275	243,5356914	0	0	TRUE	258,4441501	0	241,8636016	241,9321736	0	0	TRUE	31,8%	321,7804922	0	0	TRUE	42,4%
2357	2	759,7594954	Non-Empty	533,894744	236,1418729	0	0	TRUE	232,7068966	0	246,9278303	246,997838	0	0	TRUE	32,5%	232,3970221	0	0	TRUE	30,6%
2357	3	759,7594954	Non-Empty	585,8733084	280,0819311	0	0	TRUE	268,6084486	0	270,9680634	270,8294837	0	0	TRUE	35,6%	205,5819811	0	0	TRUE	27,1%
2358	1	1057,493822	Non-Empty	712,3474881	341,1448927	0	0	TRUE	367,989929	0	334,557996	321,6082763	0	0	TRUE	30,4%	415,8683568	0	0	TRUE	39,3%
2358	2	1057,493822	Non-Empty	764,641733	357,0772241	0	0	TRUE	347,5603468	0	359,1182816	345,2179081	0	0	TRUE	32,6%	380,2224976	0	0	TRUE	36,0%
2358	3	1057,493822	Non-Empty	774,6474954	359,2717048	0	0	TRUE	341,9435458	0	363,817544	390,6676372	0	0	TRUE	36,9%	261,4029671	0	0	TRUE	24,7%
2359	1	1012,130573	Non-Empty	715,8840252	331,9132754	0	0	TRUE	326,4288413	0	337,3866848	317,9473821	0	0	TRUE	31,4%	269,0473674	0	0	TRUE	26,6%
2359	2	1012,130573	Non-Empty	764,4900225	366,4524071	0	0	TRUE	346,9011074	0	360,2940493	339,5348865	0	0	TRUE	33,5%	345,9180438	0	0	TRUE	34,2%
2359	3	1012,130573	Non-Empty	667,2154718	313,7648901	0	0	TRUE	338,800624	0	314,4498385	354,648304	0	0	TRUE	35,0%	397,1651614	0	0	TRUE	39,2%
2360	1	1026,188818	Non-Empty	749,5886419	392,5815394	0	0	TRUE	425,3555659	0	350,3567293	310,556024	0	0	TRUE	30,3%	373,15957	0	0	TRUE	36,4%
2360	2	1026,188818	Non-Empty	727,5015079	379,2069768	0	0	TRUE	420,6935747	0	340,032323	301,4052816	0	0	TRUE	29,4%	362,7940264	0	0	TRUE	35,4%
2360	3	1026,188818	Non-Empty	718,4420548	254,4003015	0	0	TRUE	180,1396771	0	335,7988561	414,227512	0	0	TRUE	40,4%	290,2352211	0	0	TRUE	28,3%
2361	1	1037,736088	Non-Empty	773,8689702	327,312117	0	0	TRUE	319,6974969	0	341,0704365	333,2601707	0	0	TRUE	32,1%	342,1107981	0	0	TRUE	33,0%
2361	2	1037,736088	Non-Empty	808,7271601	365,6370766	0	0	TRUE	361,4892261	0	356,4336291	348,2715574	0	0	TRUE	33,6%	319,3034116	0	0	TRUE	30,8%
2361	3	1037,736088	Non-Empty	771,9666566	344,7868941	0	0	TRUE	356,5493647	0	340,2320221	356,2043596	0	0	TRUE	34,3%	376,321878	0	0	TRUE	36,3%
2362	1	973,5276455	Non-Empty	730,0555787	334,8147283	0	0	TRUE	331,146409	0	330,8417847	318,6629763	0	0	TRUE	32,7%	328,5655804	0	0	TRUE	33,8%
2362	2	973,5276455	Non-Empty	739,6861006	336,1593917	0	0	TRUE	324,2052137	0	335,2060812	322,8666162	0	0	TRUE	33,2%	328,5655804	0	0	TRUE	33,8%
2362	3	973,5276455	Non-Empty	678,5035592	302,5535255	0	0	TRUE	318,1760228	0	307,4797796	331,9980529	0	0	TRUE	34,1%	316,3964848	0	0	TRUE	32,5%
2363	1	1305,714112	Empty	609,6190213	435,0724973	221,5760385	0,169697207	FALSE	444,2722157	0,054894804	444,2722157	421,8367943	234,8117416	0,179833962	FALSE	32,3%	454,7992974	227,4823096	0,17422061	FALSE	34,8%
2363	2	1305,714112	Empty	624,5642172	430,8482372	221,5760385	0,169697207	FALSE	420,8784995	0,054894804	420,8784995	432,1783901	234,8117416	0,179833962	FALSE	33,1%	425,4574073	227,4823096	0,17422061	FALSE	32,6%
2363	3	1305,714112	Empty	622,7696006	439,7933775	221,5760385	0,169697207	FALSE	440,5633968	0,054894804	440,5633968	451,6989277	234,8117416	0,179833962	FALSE	34,6%	425,4574073	227,4823096	0,17422061	FALSE	32,6%
2364	1	1657,184006	Empty	869,9300571	569,6056821	228,4837349	0,137874692	FALSE	548,4004187	0,072707823	548,4004187	570,2602656	240,0592925	0,144859769	FALSE	34,4%	564,1477468	269,4615056	0,162602043	FALSE	34,0%
2364	2	1657,184006	Empty	770,9888066	516,9774321	228,4837349	0,137874692	FALSE	542,0851691	0,072707823	542,0851691	505,4018746	240,0592925	0,144859769	FALSE	30,5%	475,9996614	269,4615056	0,162602043	FALSE	28,7%
2364	3	1657,184006	Empty	853,622477	570,6008921	228,4837349	0,137874692	FALSE	566,6984186	0,072707823	566,6984186	581,5218662	240,0592925	0,144859769	FALSE	35,1%	617,0365981	269,4615056	0,162602043	FALSE	37,2%
2365	1	936,9553545	Non-Empty	756,7004403	337,534383	0	0	TRUE	324,0198288	0	329,1662949	317,3556191	0	0	TRUE	33,9%	308,3650534	0	0	TRUE	32,9%
2365	2	936,9553545	Non-Empty	715,5773909	308,7642602	0	0	TRUE	307,6026325	0	311,2776813	300,1088593	0	0	TRUE	32,0%	308,3650534	0	0	TRUE	32,9%
2365	3	936,9553545	Non-Empty	681,6320324	290,6567113	0	0	TRUE	305,3328932	0	296,5113784	319,4908761	0	0	TRUE	34,1%	320,2252477	0	0	TRUE	34,2%
2366	1	1054,831076	Non-Empty	828,72053	394,3007722	0	0	TRUE	384,4698633	0	375,4019844	356,4159178	0	0	TRUE	33,8%	362,265218	0	0	TRUE	34,3%
2366	2	1054,831076	Non-Empty	775,6586846	347,4631367	0	0	TRUE	343,8564377	0	351,3655073	333,5950927	0	0	TRUE	31,6%	319,6457806	0	0	TRUE	30,3%
2366	3	1054,831076	Non-Empty	724,2184081	313,0671671	0	0	TRUE	326,504775	0	328,0635844	364,8200655	0	0	TRUE	34,6%	372,9200774	0	0	TRUE	35,4%
2367	1	1028,648887	Non-Empty	641,0612081	293,3692006	0	0	TRUE	308,8495218	0	311,3197632	310,493835	0	0	TRUE	30,2%	350,9507966	0	0	TRUE	34,1%
2367	2	1028,648887	Non-Empty	720,8021984	357,0302587	0	0	TRUE	356,4306476	0	350,0445307	349,1158661	0	0	TRUE	33,9%	302,5437902	0	0	TRUE	29,4%
2367	3	1028,648887	Non-Empty	756,3024663	378,2494274	0	0	TRUE	363,3687172	0	367,2845927	369,0391856	0	0	TRUE	35,9%	375,1542998	0	0	TRUE	36,5%
2368	1	917,7128754	Non-Empty	556,4107704	279,355681	0	0	TRUE	292,5539328	0	285,5091224	272,8637044	0	0	TRUE	29,7%	360,115179	6,63690972	0,007232011	FALSE	39,2%
2368	2	917,7128754	Non-Empty	636,2023612	326,611785	0	0	TRUE	307,2745501	0	326,4523038	311,9934809	0	0	TRUE	34,0%	325,2653229	6,63690972	0,007232011	FALSE	35,4%
2368	3	917,7128754	Non-Empty	595,8597677	311,7454094	0	0	TRUE	317,8843925	0	305,7514492	332,8556901	0	0	TRUE	36,3%	232,3323735	6,63690972	0,007232011	FALSE	25,3%
2369	1	609,0749766	Non-Empty	481,3006977	246,6854232	0	0	TRUE	232,6894459	0	230,6559367	209,8122634	0	0	TRUE	34,4%	216,3818996	0	0	TRUE	35,5%
2369	2	609,0749766	Non-Empty	431,1480167	200,0995885	0	0	TRUE	189,6704575	0	206,6210378	187,949325	0	0	TRUE	30,9%	224,396044	0	0	TRUE	36,8%
2369	3	609,0749766	Non-Empty	358,4841537	162,2899649	0	0	TRUE	186,7150732	0	171,7980021	211,3133882	0	0	TRUE	34,7%	168,297033	0	0	TRUE	27,6%
2370	1	965,2483833	Empty	495,214475	321,5608823	95,03347175	0,09845494	FALSE	319,2252433	0,09118276	319,2252433	296,1864034	140,7298083	0,145796471	FALSE	30,7%	317,9641733	157,7698976	0,163450051	FALSE	32,9%
2370	2	965,2483833	Empty	522,1434288	357,9888725	95,03347175	0,09845494	FALSE	365,1522699	0,09118276	365,1522699	312,2925359	140,7298083	0,145796471	FALSE	32,4%	295,2524467	157,7698976	0,163450051	FALSE	30,6%
2370	3	965,2483833	Empty	461,8443407	285,6986286	95,03347175	0,09845494	FALSE	280,8708702	0,09118276	280,8708702	356,769444	140,7298083	0,145796471	FALSE	37,0%	352,0317633	157,7698976	0,163450051	FALSE	36,5%
2371	1	1029,723904	Empty	609,6994492	403,3225847	94,34957734	0,091626092	FALSE	400,0436424	0,045081075	400,0436424	357,6207814	134,3590647	0,13048067	FALSE	34,7%	305,522477	186,457369	0,18107511	FALSE	29,7%
2371	2	1029,723904	Empty	519,5562549	317,3239013	94,34957734	0,091626092	FALSE	318,1894699	0,045081075	318,1894699	304,7470587	134,3590647	0,13048067	FALSE	29,6%	339,4694189	186,457369	0,18107511	FALSE	33,0%
2371	3	1029,723904	Empty	509,7619665	309,077418	94,34957734	0,091626092	FALSE	311,4907917	0,045081075	311,4907917	367,3560639	134,3590647	0,13048067	FALSE	35,7%	384,7320081	186,457369	0,18107511	FALSE	37,4%
2372	1	884,2928367	Non-Empty	565,0079304	278,8045571	0	0	TRUE	269,4243888	0	291,3712422	274,8968222	0	0	TRUE	31,1%	298,0762371	16,4693271	0,018624291	FALSE	33,7%
2372	2	884,2928367	Non-Empty	576,0805025	320,0827725	0	0	TRUE	340,9082475	0	297,081032	280,2840296	0	0	TRUE	31,7%	258,3327388	16,4693271	0,018624291	FALSE	29,2%
2372	3	884,2928367	Non-Empty	573,6740185	285,405507	0	0	TRUE	273,9602004	0	295,8402925	329,1119849	0	0	TRUE	37,2%	327,8838608	16,4693271	0,018624291	FALSE	37,1%
2373	1	1685,737698	Empty	881,5405127	594,9319812	229,1951536	0,135961338	FALSE	591,2207722	0,036938692	591,2207722	556,9737772	263,5412482	0,156335857	FALSE	33,0%	561,912566	274,842986	0,163040185	FALSE	33,3%
2373	2	1685,737698	Empty	843,89713	567,5360789	229,1951536	0,135961338	FALSE	574,0723503	0,036938692	574,0723503	533,1899842	263,5412482	0,156335857	FALSE	31,6%	655,5646604	274,842986	0,163040185	FALSE	38,9%
2373	3	1685,737698	Empty	808,9920229	523,269638	229,1951536	0,135961338	FALSE	520,4445756	0,036938692	520,4445756	595,5739366	263,5412482	0,156335857	FALSE	35,3%	468,2604717	274,842986	0,16		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2388	1	1308,137855	Empty	579,4964019	340,4633852	171,4277067	0,131047126	FALSE	286,7154674	0,318956273	286,7154674	393,9432763	202,0007894	0,15441858	FALSE	30,1%	339,6127124	167,8811303	0,128335962	FALSE	26,0%
2388	2	1308,137855	Empty	671,4182949	504,3398098	171,4277067	0,131047126	FALSE	522,5464235	0,318956273	522,5464235	456,4320365	202,0007894	0,15441858	FALSE	34,9%	490,5516956	167,8811303	0,128335962	FALSE	37,5%
2388	3	1308,137855	Empty	613,0784545	463,33466	171,4277067	0,131047126	FALSE	498,8759642	0,318956273	498,8759642	457,7625422	202,0007894	0,15441858	FALSE	35,0%	477,973447	167,8811303	0,128335962	FALSE	36,5%
2389	1	1763,738939	Empty	922,2591976	589,2500239	168,6038312	0,095594551	FALSE	543,1764492	0,314861741	543,1764492	605,1562809	225,6086876	0,127915012	FALSE	34,3%	604,2438958	214,4353094	0,12157996	FALSE	34,3%
2389	2	1763,738939	Empty	836,9531169	508,0826251	168,6038312	0,095594551	FALSE	466,1477324	0,314861741	466,1477324	549,1812245	225,6086876	0,127915012	FALSE	31,1%	538,9202314	214,4353094	0,12157996	FALSE	30,6%
2389	3	1763,738939	Empty	865,3334218	666,4062902	168,6038312	0,095594551	FALSE	754,4147576	0,314861741	754,4147576	609,4014338	225,6086876	0,127915012	FALSE	34,6%	620,5748119	214,4353094	0,12157996	FALSE	35,2%
2390	1	1277,792065	Empty	672,8931143	425,5844832	139,0686753	0,108835138	FALSE	421,8026235	0,031527532	421,8026235	420,3549791	150,1383883	0,117498294	FALSE	32,9%	345,7555	205,0688066	0,160486837	FALSE	27,1%
2390	2	1277,792065	Empty	651,607209	418,1274929	139,0686753	0,108835138	FALSE	428,174422	0,031527532	428,174422	407,0577168	150,1383883	0,117498294	FALSE	31,9%	511,1168261	205,0688066	0,160486837	FALSE	40,0%
2390	3	1277,792065	Empty	683,8720559	434,0801521	139,0686753	0,108835138	FALSE	427,8150196	0,031527532	427,8150196	450,3793692	150,1383883	0,117498294	FALSE	35,2%	420,9197391	205,0688066	0,160486837	FALSE	32,9%
2391	1	1046,956894	Empty	502,6959592	323,2049916	138,4218847	0,132213547	FALSE	318,6743563	0,075799572	318,6743563	327,6110178	133,6600202	0,127665256	FALSE	31,3%	383,8841946	160,8760924	0,153660665	FALSE	36,7%
2391	2	1046,956894	Empty	550,8445687	368,1577462	138,4218847	0,132213547	FALSE	360,431256	0,075799572	360,431256	358,9898555	133,6600202	0,127665256	FALSE	34,3%	325,7199227	160,8760924	0,153660665	FALSE	31,1%
2391	3	1046,956894	Empty	518,2973633	355,5941566	138,4218847	0,132213547	FALSE	367,8512821	0,075799572	367,8512821	360,3560211	133,6600202	0,127665256	FALSE	34,4%	337,3527771	160,8760924	0,153660665	FALSE	32,2%
2392	1	957,9175487	Empty	467,5469989	286,0422099	59,16771729	0,061767025	FALSE	277,8075923	0,271912883	277,8075923	279,3436864	122,0594048	0,127421619	FALSE	29,2%	325,1646725	67,26711523	0,070222239	FALSE	33,9%
2392	2	957,9175487	Empty	481,9497557	350,8405392	59,16771729	0,061767025	FALSE	393,0014941	0,271912883	393,0014941	287,9488517	122,0594048	0,127421619	FALSE	30,1%	342,7411413	67,26711523	0,070222239	FALSE	35,8%
2392	3	957,9175487	Empty	528,2313083	321,0347995	59,16771729	0,061767025	FALSE	287,1084623	0,271912883	287,1084623	390,6250106	122,0594048	0,127421619	FALSE	40,8%	290,0117349	67,26711523	0,070222239	FALSE	30,3%
2393	1	1031,561197	Empty	456,4765243	315,2068498	131,1547747	0,12714202	FALSE	340,2335294	0,12186579	340,2335294	294,657817	151,7038075	0,147062344	FALSE	28,6%	355,3155233	126,0946477	0,122236711	FALSE	34,4%
2393	2	1031,561197	Empty	545,594105	370,5952533	131,1547747	0,12714202	FALSE	361,8927556	0,12186579	361,8927556	352,1836488	151,7038075	0,147062344	FALSE	34,1%	366,7773144	126,0946477	0,122236711	FALSE	35,6%
2393	3	1031,561197	Empty	528,3796297	345,7590936	131,1547747	0,12714202	FALSE	329,4349116	0,12186579	329,4349116	384,7197308	151,7038075	0,147062344	FALSE	37,3%	309,468359	126,0946477	0,122236711	FALSE	30,0%
2394	1	1259,606159	Non-Empty	945,0972201	448,1861987	0	0	TRUE	431,6005395	0	440,8124512	414,7213772	0	0	TRUE	32,9%	398,4468462	0	0	TRUE	31,6%
2394	2	1259,606159	Non-Empty	915,8481427	440,3354866	0	0	TRUE	445,1481926	0	427,1700901	401,8864884	0	0	TRUE	31,9%	411,2999703	0	0	TRUE	32,7%
2394	3	1259,606159	Non-Empty	839,6368826	371,0844736	0	0	TRUE	382,8574268	0	391,6236176	442,9982933	0	0	TRUE	35,2%	449,8593425	0	0	TRUE	35,7%
2395	1	695,6466663	Non-Empty	513,4879805	257,3928531	0	0	TRUE	255,9489865	0	244,7287558	241,9099776	0	0	TRUE	34,8%	224,4021504	0	0	TRUE	32,3%
2395	2	695,6466663	Non-Empty	431,6689496	182,0704813	0	0	TRUE	187,1232739	0	205,7337444	203,3641095	0	0	TRUE	29,2%	201,9619354	0	0	TRUE	29,0%
2395	3	695,6466663	Non-Empty	514,4435187	256,1833318	0	0	TRUE	252,5744058	0	245,184166	250,3725792	0	0	TRUE	36,0%	269,2825805	0	0	TRUE	38,7%
2396	1	1044,158084	Non-Empty	773,039593	331,9392204	0	0	TRUE	320,4942285	0	345,9633787	346,0094055	0	0	TRUE	33,1%	356,8641552	0	0	TRUE	34,2%
2396	2	1044,158084	Non-Empty	717,3923325	319,1823353	0	0	TRUE	350,6277187	0	321,0592025	321,101916	0	0	TRUE	30,8%	343,6469643	0	0	TRUE	32,9%
2396	3	1044,158084	Non-Empty	842,6923002	393,0365281	0	0	TRUE	373,0361366	0	377,1355026	377,0467623	0	0	TRUE	36,1%	343,6469643	0	0	TRUE	32,9%
2397	1	948,4026307	Empty	432,4199719	287,8412276	123,3898478	0,130102811	FALSE	285,876037	0,12830498	285,876037	290,5014542	147,9772764	0,156027906	FALSE	30,6%	319,3600695	150,8758502	0,159084175	FALSE	33,7%
2397	2	948,4026307	Empty	450,880764	327,4909163	123,3898478	0,130102811	FALSE	346,7146221	0,12830498	346,7146221	302,9034876	147,9772764	0,156027906	FALSE	31,9%	300,0049138	150,8758502	0,159084175	FALSE	31,6%
2397	3	948,4026307	Empty	492,9425556	333,0704868	123,3898478	0,130102811	FALSE	315,8119717	0,12830498	315,8119717	354,9976889	147,9772764	0,156027906	FALSE	37,4%	329,0376474	150,8758502	0,159084175	FALSE	34,7%
2398	1	749,9791419	Non-Empty	623,8905786	263,4197851	0	0	TRUE	234,4407381	0	268,2242229	236,6676718	0	0	TRUE	31,6%	232,1364011	0	0	TRUE	31,0%
2398	2	749,9791419	Non-Empty	642,0478419	304,4564491	0	0	TRUE	298,3568028	0	276,030428	243,5554777	0	0	TRUE	32,5%	294,6346629	0	0	TRUE	39,3%
2398	3	749,9791419	Non-Empty	478,5159608	182,1029077	0	0	TRUE	217,181601	0	205,724491	269,7559925	0	0	TRUE	36,0%	223,208078	0	0	TRUE	29,8%
2399	1	1465,006955	Empty	700,337506	462,7561167	224,3424573	0,153134056	FALSE	472,4185474	0,02428886	472,4185474	473,2791895	234,2471723	0,159894922	FALSE	32,3%	436,0139748	251,0845992	0,171387991	FALSE	29,8%
2399	2	1465,006955	Empty	733,0779081	481,266161	224,3424573	0,153134056	FALSE	476,6982338	0,02428886	476,6982338	495,4047374	234,2471723	0,159894922	FALSE	33,8%	523,2167698	251,0845992	0,171387991	FALSE	35,7%
2399	3	1465,006955	Empty	773,3230009	520,9846776	224,3424573	0,153134056	FALSE	515,8901742	0,02428886	515,8901742	496,3230285	234,2471723	0,159894922	FALSE	33,9%	505,7762108	251,0845992	0,171387991	FALSE	34,5%
2400	1	745,3759928	Non-Empty	574,531016	293,7535925	0	0	TRUE	280,4309295	0	276,6883007	254,6698426	0	0	TRUE	34,2%	245,7283493	0	0	TRUE	33,0%
2400	2	745,3759928	Non-Empty	521,0457916	260,6907361	0	0	TRUE	227,7904411	0	250,93036	230,9616818	0	0	TRUE	31,0%	270,3011842	0	0	TRUE	36,3%
2400	3	745,3759928	Non-Empty	452,1634666	210,9316641	0	0	TRUE	237,7546222	0	217,757332	259,7444684	0	0	TRUE	34,8%	229,3464593	0	0	TRUE	30,8%
2401	1	1088,793329	Empty	620,8117913	349,3745681	139,0231383	0,127685516	FALSE	435,4088561	0,078164735	435,4088561	382,6026569	179,4375697	0,164804068	FALSE	35,1%	309,4465251	252,5937015	0,231994167	FALSE	28,4%
2401	2	1088,793329	Empty	515,7062255	429,8086585	139,0231383	0,127685516	FALSE	321,3826028	0,078164735	321,3826028	317,8267147	179,4375697	0,164804068	FALSE	29,2%	401,1343844	252,5937015	0,231994167	FALSE	36,8%
2401	3	1088,793329	Empty	484,6898458	319,6101024	139,0231383	0,127685516	FALSE	332,0018701	0,078164735	332,0018701	388,3639574	179,4375697	0,164804068	FALSE	35,7%	378,2124195	252,5937015	0,231994167	FALSE	34,7%
2402	1	1398,422899	Empty	709,9865049	445,4169906	171,6470745	0,122743324	FALSE	435,0623313	0,065744751	435,0623313	450,4855329	170,3842273	0,121840273	FALSE	32,2%	513,706371	210,7528351	0,150707511	FALSE	36,7%
2402	2	1398,422899	Empty	738,3107816	481,9135036	171,6470745	0,122743324	FALSE	479,7312425	0,065744751	479,7312425	468,4572503	170,3842273	0,121840273	FALSE	33,5%	428,0886425	210,7528351	0,150707511	FALSE	30,6%
2402	3	1398,422899	Empty	712,7706631	471,0924857	171,6470745	0,122743324	FALSE	483,6293251	0,065744751	483,6293251	479,4801157	170,3842273	0,121840273	FALSE	34,3%	456,6278854	210,7528351	0,150707511	FALSE	32,7%
2403	1	1219,924817	Empty	684,5326997	428,8451172	128,1506082	0,105047956	FALSE	413,8731922	0,057475893	413,8731922	426,8540807	128,0887333	0,104997236	FALSE	35,0%	432,876548	160,6321587	0,131673818	FALSE	35,5%
2403	2	1219,924817	Empty	579,8195683	361,4962346	1															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2419	1	736,7148339	Non-Empty	447,4760268	222,6026185	0	0	TRUE	235,7718835	0	227,2211811	227,8990959	0	0	TRUE	30,9%	275,1585524	0	0	TRUE	37,3%
2419	2	736,7148339	Non-Empty	463,3073443	235,5047365	0	0	TRUE	245,744802	0	235,2600713	235,9619701	0	0	TRUE	32,0%	195,2738114	0	0	TRUE	26,5%
2419	3	736,7148339	Non-Empty	540,0594826	278,6074788	0	0	TRUE	255,1981483	0	274,2335815	272,8537678	0	0	TRUE	37,0%	266,2824701	0	0	TRUE	36,1%
2420	1	697,167107	Non-Empty	537,1468577	257,4796224	0	0	TRUE	240,1188566	0	252,3310581	236,7562899	0	0	TRUE	34,0%	193,1908851	0	0	TRUE	27,7%
2420	2	697,167107	Non-Empty	487,7829992	221,8952268	0	0	TRUE	218,313924	0	229,1418046	214,9983594	0	0	TRUE	30,8%	243,5885073	0	0	TRUE	34,9%
2420	3	697,167107	Non-Empty	459,1566589	217,7922578	0	0	TRUE	238,7343264	0	215,6942443	245,4124578	0	0	TRUE	35,2%	260,3877147	0	0	TRUE	37,3%
2421	1	908,5527794	Non-Empty	675,0670134	245,966802	0	0	TRUE	225,6335815	0	287,2955633	292,841627	0	0	TRUE	32,2%	255,8061223	0	0	TRUE	28,2%
2421	2	908,5527794	Non-Empty	693,8963111	295,3445607	0	0	TRUE	305,5598012	0	295,308951	301,0097082	0	0	TRUE	33,1%	352,8360308	0	0	TRUE	38,8%
2421	3	908,5527794	Non-Empty	765,8904273	367,2414166	0	0	TRUE	377,3593967	0	325,948265	314,7014441	0	0	TRUE	34,6%	299,9106262	0	0	TRUE	33,0%
2422	1	1112,071129	Non-Empty	735,740737	311,3861804	0	0	TRUE	338,3783094	0	331,7758084	338,2530549	0	0	TRUE	30,4%	407,7594141	0	0	TRUE	36,7%
2422	2	1112,071129	Non-Empty	827,8913416	361,6288947	0	0	TRUE	346,7131333	0	373,3303123	380,6188259	0	0	TRUE	34,2%	321,264993	0	0	TRUE	28,9%
2422	3	1112,071129	Non-Empty	902,4791076	439,0560544	0	0	TRUE	426,9796868	0	406,9650088	393,1992487	0	0	TRUE	35,4%	383,0467224	0	0	TRUE	34,4%
2423	1	1277,253745	Empty	714,2320072	482,2214999	147,992591	0,115867807	FALSE	475,1352451	0,065204506	475,1352451	441,1203257	167,0981133	0,13082609	FALSE	34,5%	435,7689248	172,4495142	0,135015861	FALSE	34,1%
2423	2	1277,253745	Empty	626,1644041	393,4170093	147,992591	0,115867807	FALSE	385,593867	0,065204506	385,593867	386,7284623	167,0981133	0,13082609	FALSE	30,3%	405,7158955	172,4495142	0,135015861	FALSE	31,8%
2423	3	1277,253745	Empty	611,6300911	401,6152357	147,992591	0,115867807	FALSE	416,5246329	0,065204506	416,5246329	449,404957	167,0981133	0,13082609	FALSE	35,2%	435,7689248	172,4495142	0,135015861	FALSE	34,1%
2424	1	931,8085481	Non-Empty	734,3993365	328,3738791	0	0	TRUE	311,6333777	0	325,918704	327,4201051	0	0	TRUE	35,1%	217,4219946	0	0	TRUE	23,3%
2424	2	931,8085481	Non-Empty	615,9505695	258,9022483	0	0	TRUE	291,1388832	0	273,3523866	274,6116318	0	0	TRUE	29,5%	393,4302759	0	0	TRUE	42,2%
2424	3	931,8085481	Non-Empty	749,3135103	344,5324207	0	0	TRUE	329,0362872	0	332,5374575	329,7768112	0	0	TRUE	35,4%	320,9562777	0	0	TRUE	34,4%
2425	1	1034,179798	Non-Empty	760,9461448	367,272406	0	0	TRUE	345,627916	0	365,9800997	353,5308422	0	0	TRUE	34,2%	361,9629292	0	0	TRUE	35,0%
2425	2	1034,179798	Non-Empty	671,9624971	318,4845712	0	0	TRUE	337,035894	0	323,1830575	312,1895934	0	0	TRUE	30,2%	271,4721969	0	0	TRUE	26,3%
2425	3	1034,179798	Non-Empty	717,3589022	348,4228205	0	0	TRUE	351,5159877	0	345,0166406	368,4593622	0	0	TRUE	35,6%	400,7446716	0	0	TRUE	38,8%
2426	1	1251,804603	Empty	591,4308289	397,3562102	163,4247111	0,130551294	FALSE	404,5645566	0,09637112	404,5645566	377,2150861	206,9401209	0,165313437	FALSE	30,1%	456,387095	206,5428032	0,164996041	FALSE	36,5%
2426	2	1251,804603	Empty	653,6066589	460,3862931	163,4247111	0,130551294	FALSE	468,4488925	0,09637112	468,4488925	416,8708834	206,9401209	0,165313437	FALSE	33,3%	417,2682011	206,5428032	0,164996041	FALSE	33,3%
2426	3	1251,804603	Empty	610,6160111	394,0621001	163,4247111	0,130551294	FALSE	378,7911542	0,09637112	378,7911542	457,7186339	206,9401209	0,165313437	FALSE	36,6%	378,1493073	206,5428032	0,164996041	FALSE	30,2%
2427	1	692,009901	Non-Empty	408,9009654	174,0002167	0	0	TRUE	201,8019751	0	191,1763974	188,9639713	0	0	TRUE	27,3%	167,2990969	0	0	TRUE	24,2%
2427	2	692,009901	Non-Empty	539,6830044	250,4260458	0	0	TRUE	223,8715944	0	252,3218609	249,401817	0	0	TRUE	36,0%	250,9486454	0	0	TRUE	36,3%
2427	3	692,009901	Non-Empty	531,5334526	267,5836385	0	0	TRUE	266,3363314	0	248,5116426	253,6441127	0	0	TRUE	36,7%	273,7621586	0	0	TRUE	39,6%
2428	1	521,1514542	Non-Empty	388,3675986	179,9019429	0	0	TRUE	176,2983465	0	178,2087104	167,7812275	0	0	TRUE	32,2%	148,9004155	0	0	TRUE	28,6%
2428	2	521,1514542	Non-Empty	378,0206171	173,1496137	0	0	TRUE	173,1406695	0	173,4608318	163,3111603	0	0	TRUE	31,3%	189,5096197	0	0	TRUE	36,4%
2428	3	521,1514542	Non-Empty	369,3494161	168,0998975	0	0	TRUE	171,7124382	0	169,4881912	190,0590663	0	0	TRUE	36,5%	182,741419	0	0	TRUE	35,1%
2429	1	1323,259764	Empty	614,6877479	426,5123576	221,0567502	0,16705469	FALSE	424,3263761	0,040294076	424,3263761	432,3776925	226,4868935	0,171158301	FALSE	32,7%	469,5437873	252,0751755	0,19049561	FALSE	35,5%
2429	2	1323,259764	Empty	607,963179	433,0777048	221,0567502	0,16705469	FALSE	444,1816393	0,040294076	444,1816393	427,6475615	226,4868935	0,171158301	FALSE	32,3%	441,086588	252,0751755	0,19049561	FALSE	33,3%
2429	3	1323,259764	Empty	658,5770634	463,6697016	221,0567502	0,16705469	FALSE	454,7517487	0,040294076	454,7517487	463,23451	226,4868935	0,171158301	FALSE	35,0%	412,6293888	252,0751755	0,19049561	FALSE	31,2%
2430	1	1061,462767	Empty	615,8160281	385,2058567	95,16490836	0,089654495	FALSE	373,5023016	0,139256392	373,5023016	355,08015	81,90180303	0,077159374	FALSE	33,5%	330,2328607	106,7490923	0,10056791	FALSE	31,1%
2430	2	1061,462767	Empty	586,9638921	348,075574	95,16490836	0,089654495	FALSE	328,0938723	0,139256392	328,0938723	338,443979	81,90180303	0,077159374	FALSE	31,9%	400,9970452	106,7490923	0,10056791	FALSE	37,8%
2430	3	1061,462767	Empty	515,4026955	328,181336	95,16490836	0,089654495	FALSE	359,8665929	0,139256392	359,8665929	367,9386377	81,90180303	0,077159374	FALSE	34,7%	330,2328607	106,7490923	0,10056791	FALSE	31,1%
2431	1	941,271992	Non-Empty	674,4280036	338,7299465	0	0	TRUE	359,9820034	0	315,4978103	281,5629403	0	0	TRUE	29,9%	363,4614622	0	0	TRUE	38,6%
2431	2	941,271992	Non-Empty	657,3325566	354,6177242	0	0	TRUE	408,8530058	0	307,5005503	274,4258637	0	0	TRUE	29,2%	354,1419376	0	0	TRUE	37,6%
2431	3	941,271992	Non-Empty	680,3617736	247,9243212	0	0	TRUE	172,4369827	0	318,2736314	385,2831879	0	0	TRUE	40,9%	223,6685921	0	0	TRUE	23,8%
2432	1	852,8705203	Non-Empty	607,6757363	267,5750212	0	0	TRUE	200,5007258	0	309,9786416	293,9667087	0	0	TRUE	34,5%	250,8442707	0	0	TRUE	29,4%
2432	2	852,8705203	Non-Empty	546,4144112	287,7978505	0	0	TRUE	302,2077094	0	278,7289122	264,3311826	0	0	TRUE	31,0%	309,3746005	0	0	TRUE	36,3%
2432	3	852,8705203	Non-Empty	517,8596317	297,4976485	0	0	TRUE	350,162085	0	264,1629665	294,5726289	0	0	TRUE	34,5%	292,6516491	0	0	TRUE	34,3%
2433	1	588,6883183	Non-Empty	397,3142029	154,3257848	0	0	TRUE	162,422649	0	174,2950534	179,2990945	0	0	TRUE	30,5%	206,0409114	0	0	TRUE	35,0%
2433	2	588,6883183	Non-Empty	442,3007396	190,2003439	0	0	TRUE	189,1852306	0	194,028898	199,6005215	0	0	TRUE	33,9%	198,6823074	0	0	TRUE	33,8%
2433	3	588,6883183	Non-Empty	502,3292229	244,1621896	0	0	TRUE	237,0804388	0	220,3633751	209,7887023	0	0	TRUE	35,6%	183,9650995	0	0	TRUE	31,3%
2434	1	949,6254986	Non-Empty	679,0528104	304,7266387	0	0	TRUE	304,3141659	0	311,3142141	313,3161298	0	0	TRUE	33,0%	332,3689245	0	0	TRUE	35,0%
2434	2	949,6254986	Non-Empty	676,4760719	305,0932909	0	0	TRUE	307,6242086	0	310,132899	312,1272183	0	0	TRUE	32,9%	273,0173309	0	0	TRUE	28,8%
2434	3	949,6254986	Non-Empty	715,8377127	339,805569	0	0	TRUE	337,6871241	0	328,1783855	324,1821506	0	0	TRUE	34,1%	344,2392432	0	0	TRUE	36,3%
2435	1	980,5697428	Non-Empty	709,2256724	324,9391123	0	0	TRUE	307,7881794	0	334,0312407	327,517925	0	0	TRUE	33,4%	296,4513176	0	0	TRUE	30,2%
2435	2	980,5697428	Non-Empty	683,6606364	321,0159304	0	0	TRUE	325,5068518	0	321,9906153	315,7120811	0	0	TRUE	32,2%	285,0493438	0	0	TRUE	29,1%
2435	3	980,5697428	Non-Empty	689,0903159	334,6147001	0	0	TRUE	347,2747115	0	324,5478868	337,3397367	0	0	TRUE	34,4%	399,0690814	0	0	TRUE	40,7%
2436	1	1381,840509	Empty	725,674285	474,713055	177,0874221	0,128153301	FALSE	470,7034804	0,026132143	470,7034804	448,9001602	186,333532	0,134844456	FALSE	32,5%	412,9638302	222,2698621	0,160850591	FALSE	29,9%
2436</																					

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2450	1	1587,269076	Empty	797,8632367	551,4131613	249,7626459	0,15735369	FALSE	536,5561011	0,048296477	536,5561011	551,9511993	250,6228535	0,157895632	FALSE	34,8%	496,0215862	271,091975	0,170791442	FALSE	31,3%
2450	2	1587,269076	Empty	691,8846699	479,4968407	249,7626459	0,15735369	FALSE	498,7020266	0,048296477	498,7020266	478,6366332	250,6228535	0,157895632	FALSE	30,2%	578,6918506	271,091975	0,170791442	FALSE	36,5%
2450	3	1587,269076	Empty	792,3002147	556,3590738	249,7626459	0,15735369	FALSE	552,0109481	0,048296477	552,0109481	556,6812434	250,6228535	0,157895632	FALSE	35,1%	512,5556391	271,091975	0,170791442	FALSE	32,3%
2451	1	1167,729742	Empty	532,3633414	387,5200592	182,4541342	0,156246885	FALSE	410,4615351	0,108439157	410,4615351	350,1138464	219,860347	0,188280164	FALSE	30,0%	376,6870135	193,28718	0,165523899	FALSE	32,3%
2451	2	1167,729742	Empty	596,8269634	412,2434593	182,4541342	0,156246885	FALSE	395,4447133	0,108439157	395,4447133	392,5089644	219,860347	0,188280164	FALSE	33,6%	452,0244162	193,28718	0,165523899	FALSE	38,7%
2451	3	1167,729742	Empty	541,8937112	367,9662232	182,4541342	0,156246885	FALSE	361,8234933	0,108439157	361,8234933	425,1069309	219,860347	0,188280164	FALSE	36,4%	339,0183121	193,28718	0,165523899	FALSE	29,0%
2452	1	1154,929518	Empty	607,2056929	421,0252254	120,4254526	0,104270824	FALSE	424,5906754	0,217321919	424,5906754	361,0410144	188,4854149	0,163200795	FALSE	31,3%	430,0269481	107,9083084	0,093432808	FALSE	37,2%
2452	2	1154,929518	Empty	570,7448179	407,42155	120,4254526	0,104270824	FALSE	433,8441996	0,217321919	433,8441996	339,3615877	188,4854149	0,163200795	FALSE	29,4%	442,3134323	107,9083084	0,093432808	FALSE	38,3%
2452	3	1154,929518	Empty	546,2167593	326,4827422	120,4254526	0,104270824	FALSE	296,4946426	0,217321919	296,4946426	454,5569155	188,4854149	0,163200795	FALSE	39,4%	282,5891373	107,9083084	0,093432808	FALSE	24,5%
2453	1	1273,082377	Empty	622,6086427	425,4722933	161,185773	0,126610639	FALSE	421,9031634	0,085084502	421,9031634	421,4174575	172,0470289	0,135142102	FALSE	33,1%	454,6722776	172,7951489	0,135729747	FALSE	35,7%
2453	2	1273,082377	Empty	560,6853735	390,3654715	161,185773	0,126610639	FALSE	413,6127889	0,085084502	413,6127889	379,5042156	172,0470289	0,135142102	FALSE	29,8%	415,7003681	172,7951489	0,135729747	FALSE	32,7%
2453	3	1273,082377	Empty	670,4900193	457,2446124	161,185773	0,126610639	FALSE	437,5664249	0,085084502	437,5664249	472,1607041	172,0470289	0,135142102	FALSE	37,1%	402,7097316	172,7951489	0,135729747	FALSE	31,6%
2454	1	920,0439228	Non-Empty	652,7201452	310,2349574	0	0	TRUE	297,5201927	0	314,5204231	300,7377767	0	0	TRUE	32,7%	337,3494384	0	0	TRUE	36,7%
2454	2	920,0439228	Non-Empty	652,1837253	304,1341431	0	0	TRUE	285,8549838	0	314,2619433	300,4906237	0	0	TRUE	32,7%	316,9040179	0	0	TRUE	34,4%
2454	3	920,0439228	Non-Empty	604,4513214	305,6748223	0	0	TRUE	336,6687463	0	291,2615564	318,8155224	0	0	TRUE	34,7%	265,7904666	0	0	TRUE	28,9%
2455	1	1432,570541	Empty	740,1157165	497,4464895	186,6245537	0,130272505	FALSE	493,4073244	0,052797467	493,4073244	471,5958196	214,4872144	0,149721922	FALSE	32,9%	522,4669032	256,286894	0,178900017	FALSE	36,5%
2455	2	1432,570541	Empty	702,6392639	475,5787842	186,6245537	0,130272505	FALSE	487,1483485	0,052797467	487,1483485	447,7161235	214,4872144	0,149721922	FALSE	31,3%	539,3206743	256,286894	0,178900017	FALSE	37,6%
2455	3	1432,570541	Empty	705,7056926	459,5452584	186,6245537	0,130272505	FALSE	452,0148682	0,052797467	452,0148682	513,258598	214,4872144	0,149721922	FALSE	35,8%	370,7829636	256,286894	0,178900017	FALSE	25,9%
2456	1	1346,750392	Empty	659,6694379	427,681855	168,2181818	0,124906726	FALSE	439,127003	0,042993265	439,127003	413,5963412	182,3036956	0,135365615	FALSE	30,7%	408,5647257	187,3353111	0,139101731	FALSE	30,3%
2456	2	1346,750392	Empty	727,7726223	481,2781366	168,2181818	0,124906726	FALSE	478,2163818	0,042993265	478,2163818	456,2953451	182,3036956	0,135365615	FALSE	33,9%	499,3568869	187,3353111	0,139101731	FALSE	37,1%
2456	3	1346,750392	Empty	689,6065245	437,7904004	168,2181818	0,124906726	FALSE	429,4070072	0,042993265	429,4070072	476,8587058	182,3036956	0,135365615	FALSE	35,4%	438,8287794	187,3353111	0,139101731	FALSE	32,6%
2457	1	600,6947431	Non-Empty	490,9805843	218,3770018	0	0	TRUE	200,131163	0	216,2607288	196,8812819	0	0	TRUE	32,8%	180,7916217	0	0	TRUE	30,1%
2457	2	600,6947431	Non-Empty	474,4999717	215,1559865	0	0	TRUE	210,169745	0	209,0015633	190,2726211	0	0	TRUE	31,7%	227,4475241	0	0	TRUE	37,9%
2457	3	600,6947431	Non-Empty	398,287418	167,1617547	0	0	TRUE	190,3938351	0	175,432451	213,54084	0	0	TRUE	35,5%	192,4555973	0	0	TRUE	32,0%
2458	1	647,1369902	Non-Empty	335,5855394	173,7698732	0	0	TRUE	185,9269971	0	185,7652112	167,6506965	0	0	TRUE	25,9%	194,1410971	47,39664461	0,073240512	FALSE	30,0%
2458	2	647,1369902	Non-Empty	459,7295721	278,1997924	0	0	TRUE	270,6428028	0	254,4858196	229,6701553	0	0	TRUE	35,5%	179,760275	47,39664461	0,073240512	FALSE	27,8%
2458	3	647,1369902	Non-Empty	373,7402489	195,1673246	0	0	TRUE	190,5671903	0	206,8859594	249,8161383	0	0	TRUE	38,6%	273,2356181	47,39664461	0,073240512	FALSE	42,2%
2459	1	904,9073449	Non-Empty	806,754413	341,8485228	0	0	TRUE	342,3224159	0	317,2634417	305,3546223	0	0	TRUE	33,7%	326,1875313	0	0	TRUE	36,0%
2459	2	904,9073449	Non-Empty	760,7231454	289,0306788	0	0	TRUE	282,7179956	0	299,1612309	287,9318973	0	0	TRUE	31,8%	242,0101039	0	0	TRUE	26,7%
2459	3	904,9073449	Non-Empty	733,5691366	274,0281433	0	0	TRUE	279,8669334	0	288,4826723	311,6208254	0	0	TRUE	34,4%	336,7097097	0	0	TRUE	37,2%
2460	1	897,0669078	Non-Empty	650,8547844	287,5867954	0	0	TRUE	267,9047606	0	302,8596259	285,364105	0	0	TRUE	31,8%	276,020587	0	0	TRUE	30,8%
2460	2	897,0669078	Non-Empty	650,6355043	331,3457882	0	0	TRUE	355,6420264	0	302,7575892	285,2679627	0	0	TRUE	31,8%	287,5214448	0	0	TRUE	32,1%
2460	3	897,0669078	Non-Empty	626,3344818	278,1343242	0	0	TRUE	273,5201208	0	291,4496927	326,4348401	0	0	TRUE	36,4%	333,524876	0	0	TRUE	37,2%
2461	1	1672,11721	Empty	848,7888809	588,5533063	237,5065254	0,1420394	FALSE	592,1543826	0,033243322	592,1543826	549,9421049	276,1177268	0,165130605	FALSE	32,9%	489,8121121	336,2477196	0,201090999	FALSE	29,3%
2461	2	1672,11721	Empty	825,3607971	554,9481396	237,5065254	0,1420394	FALSE	548,3721329	0,033243322	548,3721329	534,7627241	276,1177268	0,165130605	FALSE	32,0%	574,2624762	336,2477196	0,201090999	FALSE	34,3%
2461	3	1672,11721	Empty	789,4774847	528,6157643	237,5065254	0,1420394	FALSE	531,5906947	0,033243322	531,5906947	587,4123812	276,1177268	0,165130605	FALSE	35,1%	608,0426219	336,2477196	0,201090999	FALSE	36,4%
2462	1	1109,301506	Empty	565,1685622	423,4829329	132,297394	0,11926189	FALSE	447,1584557	0,172535504	447,1584557	349,3848905	206,3954363	0,186058917	FALSE	31,5%	428,5937637	159,1252916	0,143446386	FALSE	38,6%
2462	2	1109,301506	Empty	550,2777869	362,6755654	132,297394	0,11926189	FALSE	340,434496	0,172535504	340,434496	340,1794742	206,3954363	0,186058917	FALSE	30,7%	289,9310754	159,1252916	0,143446386	FALSE	26,1%
2462	3	1109,301506	Empty	489,9386134	323,1430078	132,297394	0,11926189	FALSE	321,7085543	0,172535504	321,7085543	419,7371413	206,3954363	0,186058917	FALSE	37,8%	390,7766669	159,1252916	0,143446386	FALSE	35,2%
2463	1	1008,497238	Non-Empty	818,8091237	331,8511513	0	0	TRUE	326,6412734	0	336,533711	336,6021875	0	0	TRUE	33,4%	304,8945139	0	0	TRUE	30,2%
2463	2	1008,497238	Non-Empty	798,2895933	320,6438587	0	0	TRUE	324,7462185	0	328,1001048	328,1668653	0	0	TRUE	32,5%	398,7082105	0	0	TRUE	39,5%
2463	3	1008,497238	Non-Empty	836,6428046	356,0022284	0	0	TRUE	357,1097465	0	343,8634227	343,7281855	0	0	TRUE	34,1%	304,8945139	0	0	TRUE	30,2%
2464	1	1005,426103	Empty	550,5645937	360,02699	123,1195138	0,12245506	FALSE	345,6055961	0,044475339	345,6055961	350,5027168	130,045553	0,129343721	FALSE	34,9%	359,8367106	145,9253356	0,145137803	FALSE	35,8%
2464	2	1005,426103	Empty	476,1629543	310,0628756	123,1195138	0,12245506	FALSE	320,0790068	0,044475339	320,0790068	303,1368363	130,045553	0,129343721	FALSE	30,2%	338,6698453	145,9253356	0,145137803	FALSE	33,7%
2464	3	1005,426103	Empty	507,0471849	335,3362376	123,1195138	0,12245506	FALSE	339,7415003	0,044475339	339,7415003	351,7865501	130,045553	0,129343721	FALSE	35,0%	306,9195473	145,9253356	0,145137803	FALSE	30,5%
2465	1	1133,425948	Non-Empty	857,1351125	299,7783314	0	0	TRUE	227,8565094	0	375,1351947	378,8873814	0	0	TRUE	33,4%	317,3592653	0	0	TRUE	28,0%
2465	2	1133,425948	Non-Empty	841,9326726	393,148554	0	0	TRUE	429,7993944	0	368,4816692	372,167306	0	0	TRUE	32,8%	396,6990816	0	0	TRUE	35,0%
2465	3	1133,425948	Non-Empty	890,6630396	440,4990621	0	0														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2481	1	1005,991017	Empty	524,0601625	349,0932231	120,7837671	0,120064459	FALSE	348,5391812	0,01754998	348,5391812	327,0431466	141,041382	0,140201433	FALSE	32,5%	397,7173786	157,0002791	0,156065289	FALSE	39,5%
2481	2	1005,991017	Empty	517,3734041	342,2761286	120,7837671	0,120064459	FALSE	341,5917507	0,01754998	341,5917507	322,8702316	141,041382	0,140201433	FALSE	32,1%	304,136819	157,0002791	0,156065289	FALSE	30,2%
2481	3	1005,991017	Empty	487,7961427	314,6216649	120,7837671	0,120064459	FALSE	315,8600846	0,01754998	315,8600846	356,0776383	141,041382	0,140201433	FALSE	35,4%	304,136819	157,0002791	0,156065289	FALSE	30,2%
2482	1	726,4319618	Non-Empty	511,5561015	229,8199327	0	0	TRUE	237,3765203	0	233,0855659	227,017766	0	0	TRUE	31,3%	237,2022732	0	0	TRUE	32,7%
2482	2	726,4319618	Non-Empty	552,5467701	255,2539466	0	0	TRUE	247,2538796	0	251,7625656	245,2085567	0	0	TRUE	33,8%	214,9645601	0	0	TRUE	29,6%
2482	3	726,4319618	Non-Empty	530,2073595	241,3580825	0	0	TRUE	241,8015619	0	241,5838303	254,205639	0	0	TRUE	35,0%	274,2651284	0	0	TRUE	37,8%
2483	1	1336,98545	Empty	694,5067997	458,3653746	147,1299933	0,110046069	FALSE	459,8713664	0,042995472	459,8713664	451,1691056	143,1980256	0,107105149	FALSE	33,7%	543,1503391	230,2902268	0,172245874	FALSE	40,6%
2483	2	1336,98545	Empty	618,9856801	398,1767168	147,1299933	0,110046069	FALSE	415,0151705	0,042995472	415,0151705	402,1086846	143,1980256	0,107105149	FALSE	30,1%	431,7348849	230,2902268	0,172245874	FALSE	32,3%
2483	3	1336,98545	Empty	736,4352213	480,4433588	147,1299933	0,110046069	FALSE	462,0989132	0,042995472	462,0989132	483,70766	143,1980256	0,107105149	FALSE	36,2%	362,1002261	230,2902268	0,172245874	FALSE	27,1%
2484	1	1009,141735	Non-Empty	799,5789058	357,2029127	0	0	TRUE	364,4791037	0	342,1776135	328,6606285	0	0	TRUE	32,6%	358,8059504	0	0	TRUE	35,6%
2484	2	1009,141735	Non-Empty	775,8969169	325,7890135	0	0	TRUE	325,3332943	0	332,0429709	318,926333	0	0	TRUE	31,6%	257,8917768	0	0	TRUE	25,6%
2484	3	1009,141735	Non-Empty	782,6224651	326,1498092	0	0	TRUE	319,3293375	0	334,921151	361,554774	0	0	TRUE	35,8%	392,4440082	0	0	TRUE	38,9%
2485	1	854,7449649	Non-Empty	523,877108	242,8294629	0	0	TRUE	268,1552841	0	252,4325292	242,874894	0	0	TRUE	28,4%	236,8570385	0	0	TRUE	27,7%
2485	2	854,7449649	Non-Empty	625,0177324	318,4933215	0	0	TRUE	318,3423768	0	301,1675918	289,7647429	0	0	TRUE	33,9%	288,347699	0	0	TRUE	33,7%
2485	3	854,7449649	Non-Empty	624,9705231	293,4221805	0	0	TRUE	268,247304	0	301,1448438	322,105328	0	0	TRUE	37,7%	329,5402274	0	0	TRUE	38,6%
2486	1	978,5528551	Empty	507,0076034	326,3427055	122,9135144	0,125607435	FALSE	317,7876108	0,093514382	317,7876108	302,2809534	115,380081	0,11790889	FALSE	30,9%	349,4831625	119,9464543	0,122575345	FALSE	35,7%
2486	2	978,5528551	Empty	560,3417166	370,5215191	122,9135144	0,125607435	FALSE	352,8111249	0,093514382	352,8111249	334,0790694	115,380081	0,11790889	FALSE	34,1%	329,5126961	119,9464543	0,122575345	FALSE	33,7%
2486	3	978,5528551	Empty	427,532945	281,6886306	122,9135144	0,125607435	FALSE	307,9541194	0,093514382	307,9541194	342,1928324	115,380081	0,11790889	FALSE	35,0%	299,5569965	119,9464543	0,122575345	FALSE	30,6%
2487	1	1280,593902	Empty	545,5465244	395,1242826	232,8012632	0,181791638	FALSE	402,7484023	0,022897409	402,7484023	401,6654775	236,4830266	0,184666682	FALSE	31,4%	422,3235209	253,8844499	0,198255239	FALSE	33,0%
2487	2	1280,593902	Empty	592,4149667	429,0763768	232,8012632	0,181791638	FALSE	423,7841485	0,022897409	423,7841485	436,1729565	236,4830266	0,184666682	FALSE	34,1%	395,0768421	253,8844499	0,198255239	FALSE	30,9%
2487	3	1280,593902	Empty	616,7714958	456,3932428	232,8012632	0,181791638	FALSE	454,0613513	0,022897409	454,0613513	442,7554682	236,4830266	0,184666682	FALSE	34,6%	463,1935391	253,8844499	0,198255239	FALSE	36,2%
2488	1	698,2040833	Non-Empty	448,8213851	166,231463	0	0	TRUE	194,2902653	0	192,2331531	194,0249104	0	0	TRUE	27,8%	227,5047013	0	0	TRUE	32,6%
2488	2	698,2040833	Non-Empty	575,9899354	252,9335455	0	0	TRUE	240,5258801	0	246,7002801	248,9997119	0	0	TRUE	35,7%	290,2646189	0	0	TRUE	41,6%
2488	3	698,2040833	Non-Empty	605,3389359	279,0390748	0	0	TRUE	263,387938	0	259,2706502	255,179461	0	0	TRUE	36,5%	180,4347631	0	0	TRUE	25,8%
2489	1	669,5442264	Non-Empty	534,4568872	232,6994517	0	0	TRUE	231,6710874	0	227,6740886	224,0000968	0	0	TRUE	33,5%	247,9793431	0	0	TRUE	37,0%
2489	2	669,5442264	Non-Empty	465,6597776	184,0225576	0	0	TRUE	203,1144089	0	198,367105	195,1660419	0	0	TRUE	29,1%	214,9154307	0	0	TRUE	32,1%
2489	3	669,5442264	Non-Empty	571,6147753	252,8222171	0	0	TRUE	234,7587301	0	243,5030329	250,3780878	0	0	TRUE	37,4%	206,6494526	0	0	TRUE	30,9%
2490	1	880,872487	Non-Empty	684,6223905	284,3729718	0	0	TRUE	285,7675923	0	289,1282464	287,0243279	0	0	TRUE	32,6%	253,25084	0	0	TRUE	28,8%
2490	2	880,872487	Non-Empty	685,8527865	290,2861319	0	0	TRUE	296,3635166	0	289,6478646	287,5401649	0	0	TRUE	32,6%	220,2181217	0	0	TRUE	25,0%
2490	3	880,872487	Non-Empty	715,329428	306,2133834	0	0	TRUE	298,7413781	0	302,096376	306,3079942	0	0	TRUE	34,8%	407,4035252	0	0	TRUE	46,3%
2491	1	1176,334809	Empty	579,9182625	414,326474	159,4372401	0,135537297	FALSE	439,1331855	0,24062706	439,1331855	390,2641324	183,4995817	0,155992648	FALSE	33,2%	438,2423797	174,0276116	0,147940544	FALSE	37,3%
2491	2	1176,334809	Empty	569,4094462	336,5855946	159,4372401	0,135537297	FALSE	294,160243	0,24062706	294,160243	383,192077	183,4995817	0,155992648	FALSE	32,6%	334,4481318	174,0276116	0,147940544	FALSE	28,4%
2491	3	1176,334809	Empty	598,2026	425,42274	159,4372401	0,135537297	FALSE	443,0413801	0,24062706	443,0413801	402,8785992	183,4995817	0,155992648	FALSE	34,2%	403,6442971	174,0276116	0,147940544	FALSE	34,3%
2492	1	727,6563352	Non-Empty	608,8348882	241,69302	0	0	TRUE	229,8565301	0	247,0056666	241,2181766	0	0	TRUE	33,2%	259,1652701	0	0	TRUE	35,6%
2492	2	727,6563352	Non-Empty	597,334656	240,2457648	0	0	TRUE	238,4622519	0	242,3399968	236,6618262	0	0	TRUE	32,5%	219,29369	0	0	TRUE	30,1%
2492	3	727,6563352	Non-Empty	587,4029257	245,7175503	0	0	TRUE	259,3375532	0	238,3106718	249,7763324	0	0	TRUE	34,3%	249,1973751	0	0	TRUE	34,2%
2493	1	1010,727183	Non-Empty	754,9837628	358,4485273	0	0	TRUE	382,8386664	0	335,6417426	329,3563365	0	0	TRUE	32,6%	368,4942855	0	0	TRUE	36,5%
2493	2	1010,727183	Non-Empty	733,4373246	279,8917613	0	0	TRUE	247,2715727	0	326,0628823	319,956855	0	0	TRUE	31,7%	263,210204	0	0	TRUE	26,0%
2493	3	1010,727183	Non-Empty	785,0822197	372,3868946	0	0	TRUE	380,6169441	0	349,025583	361,4139916	0	0	TRUE	35,8%	379,0226937	0	0	TRUE	37,5%
2494	1	1454,355546	Empty	679,2188479	449,8316962	186,1739126	0,128011278	FALSE	459,3842227	0,020621435	459,3842227	429,2231535	212,2014227	0,145907528	FALSE	29,5%	447,4940141	237,640613	0,163399255	FALSE	30,8%
2494	2	1454,355546	Empty	798,9680853	550,2527532	186,1739126	0,128011278	FALSE	540,4770992	0,020621435	540,4770992	504,8970625	212,2014227	0,145907528	FALSE	34,7%	479,4578723	237,640613	0,163399255	FALSE	33,0%
2494	3	1454,355546	Empty	692,987647	454,2710964	186,1739126	0,128011278	FALSE	454,494224	0,020621435	454,494224	520,2353298	212,2014227	0,145907528	FALSE	35,8%	527,4036595	237,640613	0,163399255	FALSE	36,3%
2495	1	928,8390471	Non-Empty	665,4249052	177,0619611	0	0	TRUE	307,7494762	0	317,6133998	315,6020981	0	0	TRUE	34,0%	275,5896074	0	0	TRUE	29,7%
2495	2	928,8390471	Non-Empty	619,6037372	289,0810521	0	0	TRUE	297,6088263	0	295,7425368	293,8697333	0	0	TRUE	31,6%	296,0036524	0	0	TRUE	31,9%
2495	3	928,8390471	Non-Empty	660,9617823	322,6960338	0	0	TRUE	323,4807446	0	315,4831104	319,3672156	0	0	TRUE	34,4%	357,2457873	0	0	TRUE	38,5%
2496	1	680,1638673	Non-Empty	477,878722	224,0684196	0	0	TRUE	207,6047814	0	233,4685667	216,3170404	0	0	TRUE	31,8%	210,359959	0	0	TRUE	30,9%
2496	2	680,1638673	Non-Empty	496,575895	256,4639462	0	0	TRUE	253,6986615	0	242,6031064	224,7805206	0	0	TRUE	33,0%	259,4439494	0	0	TRUE	38,1%
2496	3	680,1638673	Non-Empty	417,7492429	199,6315015	0	0	TRUE	218,8604244	0	204,0921942	239,0663063	0	0	TRUE	35,1%	210,359959	0	0	TRUE	30,9%
2497	1	975,5003119	Non-Empty	674,0748931	311,2534244	0	0	TRUE	290,149436	0	328,6728632	322,305815	0	0	TRUE	33,0%	396,6319949	6,942319235	0,007116676	FALSE	40,7%
2497	2	975,5003119	Non-Empty	654,816929	330,8620257	0	0	TRUE	348,6246027	0	319,2828528	313,0977079	0	0	TRUE	32,1%	321,5935094	6,942319235	0,007116676	FALSE	33,0%
2497	3	975,5003119	Non-Empty	671,7609307	333,3848618																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2512	1	892,8179599	Non-Empty	652,9457165	283,1028912	0	0	TRUE	294,0946473	0	286,4223682	278,7192194	0	0	TRUE	31,2%	256,4477119	0	0	TRUE	28,7%
2512	2	892,8179599	Non-Empty	717,3371428	320,1068255	0	0	TRUE	303,7110895	0	314,6684297	306,2056208	0	0	TRUE	34,3%	256,4477119	0	0	TRUE	28,7%
2512	3	892,8179599	Non-Empty	665,0388445	289,6082432	0	0	TRUE	295,0122231	0	291,727162	307,8931197	0	0	TRUE	34,5%	379,9225361	0	0	TRUE	42,6%
2513	1	1127,077938	Non-Empty	842,8781093	406,159682	0	0	TRUE	392,4024576	0	396,4960635	375,9201728	0	0	TRUE	33,4%	416,5288033	0	0	TRUE	37,0%
2513	2	1127,077938	Non-Empty	794,0875711	380,1432268	0	0	TRUE	389,1600855	0	373,5446353	354,1597933	0	0	TRUE	31,4%	343,0237203	0	0	TRUE	30,4%
2513	3	1127,077938	Non-Empty	758,9958666	340,7750294	0	0	TRUE	345,5153952	0	357,0372394	396,9979721	0	0	TRUE	35,2%	367,5254146	0	0	TRUE	32,6%
2514	1	932,13126	Non-Empty	695,8179479	293,1754731	0	0	TRUE	292,3022232	0	303,4442996	303,4545774	0	0	TRUE	32,6%	292,6458607	0	0	TRUE	31,4%
2514	2	932,13126	Non-Empty	713,1798378	309,8659955	0	0	TRUE	308,3213783	0	311,0157721	311,0263064	0	0	TRUE	33,4%	281,8071251	0	0	TRUE	30,2%
2514	3	932,13126	Non-Empty	728,4411492	329,0897913	0	0	TRUE	331,5076585	0	317,6711882	317,6503761	0	0	TRUE	34,1%	357,6782742	0	0	TRUE	38,4%
2515	1	870,6388043	Non-Empty	597,502396	309,9418359	0	0	TRUE	296,8481478	0	307,0818573	304,8030899	0	0	TRUE	35,0%	335,6679727	0	0	TRUE	38,6%
2515	2	870,6388043	Non-Empty	454,5338573	230,3065648	0	0	TRUE	280,5461444	0	233,6042534	231,8707425	0	0	TRUE	26,6%	241,2613554	0	0	TRUE	27,7%
2515	3	870,6388043	Non-Empty	642,0031672	330,3904036	0	0	TRUE	293,2445121	0	329,9526936	333,9649719	0	0	TRUE	38,4%	293,7094762	0	0	TRUE	33,7%
2516	1	763,3451375	Non-Empty	591,307006	267,3398297	0	0	TRUE	253,5679058	0	266,4638381	254,9978593	0	0	TRUE	33,4%	233,4938068	0	0	TRUE	30,6%
2516	2	763,3451375	Non-Empty	542,272487	254,1742629	0	0	TRUE	276,2712913	0	244,3671506	233,8519955	0	0	TRUE	30,6%	206,5522137	0	0	TRUE	27,1%
2516	3	763,3451375	Non-Empty	560,3514018	241,8310448	0	0	TRUE	233,5059403	0	252,5141487	274,4952827	0	0	TRUE	36,0%	323,299117	0	0	TRUE	42,4%
2517	1	1725,000514	Empty	925,1742976	624,454182	215,209682	0,124759199	FALSE	622,6022968	0,025910893	622,6022968	594,4155488	235,0971487	0,136288162	FALSE	34,5%	472,3215693	357,1911283	0,207067259	FALSE	27,4%
2517	2	1725,000514	Empty	813,1347722	522,5658231	215,209682	0,124759199	FALSE	530,8651043	0,025910893	530,8651043	522,4312361	235,0971487	0,136288162	FALSE	30,3%	616,0716121	357,1911283	0,207067259	FALSE	35,7%
2517	3	1725,000514	Empty	883,2961351	577,9805087	215,209682	0,124759199	FALSE	571,5331126	0,025910893	571,5331126	608,1537289	235,0971487	0,136288162	FALSE	35,3%	636,6073325	357,1911283	0,207067259	FALSE	36,9%
2518	1	765,85621	Non-Empty	556,1688563	226,6353922	0	0	TRUE	237,2702891	0	238,4430149	229,9751386	0	0	TRUE	30,0%	258,1537787	0	0	TRUE	33,7%
2518	2	765,85621	Non-Empty	647,2004403	299,3688898	0	0	TRUE	291,7057002	0	277,4704526	267,6165868	0	0	TRUE	34,9%	215,1281489	0	0	TRUE	28,1%
2518	3	765,85621	Non-Empty	582,9919962	239,851928	0	0	TRUE	236,8802207	0	249,9427425	268,2644846	0	0	TRUE	35,0%	292,5742825	0	0	TRUE	38,2%
2519	1	1421,609868	Empty	752,5045054	522,797419	175,6827986	0,123580177	FALSE	529,3571158	0,078045883	529,3571158	468,3181889	230,1620286	0,161902385	FALSE	32,9%	431,2749039	267,2053137	0,187959664	FALSE	30,3%
2519	2	1421,609868	Empty	702,0034507	467,6351689	175,6827986	0,123580177	FALSE	469,5336702	0,078045883	469,5336702	436,8890582	230,1620286	0,161902385	FALSE	30,7%	479,1943377	267,2053137	0,187959664	FALSE	33,7%
2519	3	1421,609868	Empty	675,9022617	431,1772805	175,6827986	0,123580177	FALSE	422,7190824	0,078045883	422,7190824	516,4026213	230,1620286	0,161902385	FALSE	36,3%	511,1406268	267,2053137	0,187959664	FALSE	36,0%
2520	1	577,485257	Non-Empty	486,8292097	219,0330402	0	0	TRUE	217,1848667	0	204,414101	192,7800855	0	0	TRUE	33,4%	210,4852806	0	0	TRUE	36,4%
2520	2	577,485257	Non-Empty	444,2328203	181,8984375	0	0	TRUE	185,5120507	0	186,528357	175,9122899	0	0	TRUE	30,5%	205,0882221	0	0	TRUE	35,5%
2520	3	577,485257	Non-Empty	444,2672151	176,5537793	0	0	TRUE	174,7883396	0	186,542799	208,7928816	0	0	TRUE	36,2%	161,9117543	0	0	TRUE	28,0%
2521	1	1555,203272	Empty	766,9622331	503,0519574	202,2051106	0,130018445	FALSE	501,7434179	0,01680664	501,7434179	501,32119	213,5248599	0,137297075	FALSE	32,2%	568,976807	347,8206202	0,22364962	FALSE	36,6%
2521	2	1555,203272	Empty	784,2503804	523,941254	202,2051106	0,130018445	FALSE	526,2338638	0,01680664	526,2338638	512,6215047	213,5248599	0,137297075	FALSE	33,0%	606,9085941	347,8206202	0,22364962	FALSE	39,0%
2521	3	1555,203272	Empty	791,7958674	528,210061	202,2051106	0,130018445	FALSE	527,2259907	0,01680664	527,2259907	541,2605777	213,5248599	0,137297075	FALSE	34,8%	379,3178713	347,8206202	0,22364962	FALSE	24,4%
2522	1	1269,54905	Empty	677,3157916	453,985695	171,668756	0,135220263	FALSE	444,3220444	0,027236569	444,3220444	432,6887011	188,5235894	0,148496499	FALSE	34,1%	387,546552	218,3892262	0,172021102	FALSE	30,5%
2522	2	1269,54905	Empty	610,4200369	406,808613	171,668756	0,135220263	FALSE	416,8636352	0,027236569	416,8636352	389,9537795	188,5235894	0,148496499	FALSE	30,7%	414,2739004	218,3892262	0,172021102	FALSE	32,6%
2522	3	1269,54905	Empty	622,8125595	408,7547417	171,668756	0,135220263	FALSE	408,36337	0,027236569	408,36337	446,906569	188,5235894	0,148496499	FALSE	35,2%	467,7285972	218,3892262	0,172021102	FALSE	36,8%
2523	1	883,1059978	Non-Empty	762,3102771	304,4797947	0	0	TRUE	305,8938597	0	297,7658238	291,2056132	0	0	TRUE	33,0%	331,1647492	0	0	TRUE	37,5%
2523	2	883,1059978	Non-Empty	746,156082	289,2165409	0	0	TRUE	291,5215471	0	291,4558378	285,0346452	0	0	TRUE	32,3%	231,8153244	0	0	TRUE	26,3%
2523	3	883,1059978	Non-Empty	752,3732806	289,4096621	0	0	TRUE	285,690591	0	293,8843362	306,8657394	0	0	TRUE	34,7%	320,1259242	0	0	TRUE	36,3%
2524	1	763,7295098	Non-Empty	557,0372878	321,2694925	0	0	TRUE	305,9496364	0	298,5290697	274,9760568	2,647209426	0,003466161	FALSE	36,0%	257,3436392	9,684455361	0,012680478	FALSE	33,7%
2524	2	763,7295098	Non-Empty	404,153829	212,3906303	0	0	TRUE	241,0753708	0	216,5953146	199,5066195	2,647209426	0,003466161	FALSE	26,1%	232,439416	9,684455361	0,012680478	FALSE	30,4%
2524	3	763,7295098	Non-Empty	463,8822106	230,069387	0	0	TRUE	216,7045026	0	248,6051254	289,2468334	2,647209426	0,003466161	FALSE	37,9%	273,9464546	9,684455361	0,012680478	FALSE	35,9%
2525	1	751,8725049	Non-Empty	595,8397648	248,4398657	0	0	TRUE	249,8025665	0	249,1410445	250,2692557	0	0	TRUE	33,3%	238,2170312	0	0	TRUE	31,7%
2525	2	751,8725049	Non-Empty	587,4558764	236,3172516	0	0	TRUE	233,9412268	0	245,6354531	246,7477897	0	0	TRUE	32,8%	260,5498779	0	0	TRUE	34,7%
2525	3	751,8725049	Non-Empty	614,8646637	267,1153876	0	0	TRUE	268,1287115	0	257,0960073	254,8554594	0	0	TRUE	33,9%	253,1055957	0	0	TRUE	33,7%
2526	1	1229,766844	Empty	573,9594842	384,2536504	173,8737807	0,141387598	FALSE	385,91834	0,023900125	385,91834	392,5142969	183,8396795	0,149491491	FALSE	31,9%	467,846082	218,7344478	0,1778666	FALSE	38,0%
2526	2	1229,766844	Empty	603,1397298	409,6021988	173,8737807	0,141387598	FALSE	407,4351915	0,023900125	407,4351915	412,4698231	183,8396795	0,149491491	FALSE	33,5%	360,9098347	218,7344478	0,1778666	FALSE	29,3%
2526	3	1229,766844	Empty	626,7792008	435,910995	173,8737807	0,141387598	FALSE	436,4133127	0,023900125	436,4133127	424,7827242	183,8396795	0,149491491	FALSE	34,5%	401,0109274	218,7344478	0,1778666	FALSE	32,6%
2527	1	1065,019581	Empty	609,874924	370,5578831	93,4605	0,087754725	FALSE	365,9843742	0,01942696	365,9843742	365,6047386	89,41333773	0,083954642	FALSE	34,3%	362,3262492	88,01712304	0,082643666	FALSE	34,0%
2527	2	1065,019581	Empty	547,1309275	323,9441223	93,4605	0,087754725	FALSE	335,500849	0,01942696	335,500849	327,9912846	89,41333773	0,083954642	FALSE	30,8%	329,3874993	88,01712304	0,082643666	FALSE	30,9%
2527	3	1065,019581	Empty	612,2443252	370,5175755	93,4605	0,087754725	FALSE	363,5343577	0,01942696	363,5343577	371,4235578	89,41333773	0,083954642	FALSE	34,9%	373,3058325	88,01712304	0,082643666	FALSE	35,1%
2528	1	1001,750824	Non-Empty	611,9119385	326,0853979	0	0	TRUE	347,6259789	0	318,622861	301,7617525	13,04662202	0,01302382	FALSE	30,1%	411,245075	0,034816751	0,034816751	FALSE	41,1%
2528	2	1001,750824	Non-Empty	686,5895535	365,812937	0	0	TRUE	352,403442	0	357,5075336	338,5886986	13,04662202	0,01302382	FALSE	33,8%					

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2543	1	1102,213422	Non-Empty	848,1029283	391,8004597	0	0	TRUE	393,2130297	0	377,6383973	371,8952098	0	0	TRUE	33,7%	390,3672537	0	0	TRUE	35,4%
2543	2	1102,213422	Non-Empty	780,8457947	337,9340249	0	0	TRUE	352,7372937	0	347,6905274	342,4027921	0	0	TRUE	31,1%	401,8486435	0	0	TRUE	36,5%
2543	3	1102,213422	Non-Empty	846,4098149	372,4789375	0	0	TRUE	356,2630987	0	376,8844975	387,9154202	0	0	TRUE	35,2%	309,997525	0	0	TRUE	28,1%
2544	1	1690,305939	Empty	835,8140628	321,6936095	231,3514916	0,136869596	FALSE	475,8656547	0,190862613	475,8656547	555,5892347	242,5549973	0,14349769	FALSE	32,9%	520,0941352	219,2850795	0,129731	FALSE	30,8%
2544	2	1690,305939	Empty	837,3764212	579,3198981	231,3514916	0,136869596	FALSE	589,5558736	0,190862613	589,5558736	556,6277785	242,5549973	0,14349769	FALSE	32,9%	568,8529603	219,2850795	0,129731	FALSE	33,7%
2544	3	1690,305939	Empty	821,992951	589,2924317	231,3514916	0,136869596	FALSE	624,8844109	0,190862613	624,8844109	578,088926	242,5549973	0,14349769	FALSE	34,2%	601,3588438	219,2850795	0,129731	FALSE	35,6%
2545	1	915,3178616	Non-Empty	671,9760755	292,9299503	0	0	TRUE	297,0496388	0	297,8821901	299,9381529	0	0	TRUE	32,8%	322,4415194	0	0	TRUE	35,2%
2545	2	915,3178616	Non-Empty	675,3503471	296,4384156	0	0	TRUE	300,6922979	0	299,3779805	301,4442672	0	0	TRUE	32,9%	270,4348228	0	0	TRUE	29,5%
2545	3	915,3178616	Non-Empty	717,4888802	325,9494957	0	0	TRUE	317,5759249	0	318,057691	313,9354415	0	0	TRUE	34,3%	322,4415194	0	0	TRUE	35,2%
2546	1	892,0280554	Non-Empty	637,2512808	275,7924053	0	0	TRUE	277,8392253	0	286,7253858	274,5134377	0	0	TRUE	30,8%	276,1039219	0	0	TRUE	31,0%
2546	2	892,0280554	Non-Empty	711,2101701	328,3967211	0	0	TRUE	309,0889678	0	320,0025117	306,3732544	0	0	TRUE	34,3%	307,9620668	0	0	TRUE	34,5%
2546	3	892,0280554	Non-Empty	634,0836914	287,838929	0	0	TRUE	305,0998623	0	285,3001579	311,1413633	0	0	TRUE	34,9%	307,9620668	0	0	TRUE	34,5%
2547	1	798,6859172	Non-Empty	620,6663306	287,8652618	0	0	TRUE	275,4298629	0	281,6923894	273,9586992	0	0	TRUE	34,3%	263,0965374	0	0	TRUE	32,9%
2547	2	798,6859172	Non-Empty	566,5996449	245,3125762	0	0	TRUE	244,3911774	0	257,1539649	250,093962	0	0	TRUE	31,3%	263,0965374	0	0	TRUE	32,9%
2547	3	798,6859172	Non-Empty	572,5169515	265,5080792	0	0	TRUE	278,8648769	0	259,8395629	274,6332559	0	0	TRUE	34,4%	272,4928423	0	0	TRUE	34,1%
2548	1	1292,897456	Empty	715,9973021	453,741931	160,5052787	0,124143858	FALSE	445,4604318	0,083815634	445,4604318	443,9254046	171,5840917	0,132712839	FALSE	34,3%	337,9163806	242,978018	0,187932938	FALSE	26,1%
2548	2	1292,897456	Empty	631,5463565	402,6437966	160,5052787	0,124143858	FALSE	427,7151086	0,083815634	427,7151086	391,5649836	171,5840917	0,132712839	FALSE	30,3%	455,452513	242,978018	0,187932938	FALSE	35,2%
2548	3	1292,897456	Empty	707,2754133	436,5117286	160,5052787	0,124143858	FALSE	419,7219158	0,083815634	419,7219158	457,4070679	171,5840917	0,132712839	FALSE	35,4%	499,5285626	242,978018	0,187932938	FALSE	38,6%
2549	1	1002,845207	Non-Empty	739,3436559	369,1641813	0	0	TRUE	361,3197373	0	354,7848581	340,7382562	0	0	TRUE	34,0%	284,7585156	14,07936286	0,014039418	FALSE	28,4%
2549	2	1002,845207	Non-Empty	687,9743365	325,2610271	0	0	TRUE	324,8827481	0	330,1345395	317,0638902	0	0	TRUE	31,6%	445,708981	14,07936286	0,014039418	FALSE	44,4%
2549	3	1002,845207	Non-Empty	662,5323064	308,4199988	0	0	TRUE	316,6427217	0	317,9258095	345,0430607	0	0	TRUE	34,4%	272,3777106	14,07936286	0,014039418	FALSE	27,2%
2550	1	1084,545189	Empty	483,4516097	297,4818004	60,84695796	0,056103663	FALSE	280,3540545	0,352316581	280,3540545	279,3796761	194,3022679	0,17915553	FALSE	25,8%	333,7062122	130,8199093	0,120621907	FALSE	30,8%
2550	2	1084,545189	Empty	593,9274931	476,6773974	60,84695796	0,056103663	FALSE	528,269365	0,352316581	528,269365	343,2220875	194,3022679	0,17915553	FALSE	31,6%	406,7044461	130,8199093	0,120621907	FALSE	37,5%
2550	3	1084,545189	Empty	513,6922766	310,3859917	60,84695796	0,056103663	FALSE	275,92177	0,352316581	275,92177	461,9434259	194,3022679	0,17915553	FALSE	42,6%	344,1345313	130,8199093	0,120621907	FALSE	31,7%
2551	1	917,9035018	Empty	440,5841273	262,0601118	95,01260775	0,103510454	FALSE	225,8951311	0,274236172	225,8951311	282,4617027	119,2604944	0,12992705	FALSE	30,8%	263,556451	107,6473951	0,117275285	FALSE	28,7%
2551	2	917,9035018	Empty	478,0358451	346,0795868	95,01260775	0,103510454	FALSE	356,4823634	0,274236172	356,4823634	306,4722726	119,2604944	0,12992705	FALSE	33,4%	318,0853719	107,6473951	0,117275285	FALSE	34,7%
2551	3	917,9035018	Empty	426,3606339	309,7638032	95,01260775	0,103510454	FALSE	335,5260073	0,274236172	335,5260073	328,9695266	119,2604944	0,12992705	FALSE	35,8%	336,2616789	107,6473951	0,117275285	FALSE	36,6%
2552	1	829,4746862	Non-Empty	569,8962088	264,4732831	0	0	TRUE	273,0480142	0	266,8490599	262,3065483	0	0	TRUE	31,6%	273,4531933	0	0	TRUE	33,0%
2552	2	829,4746862	Non-Empty	598,4802119	281,7543856	0	0	TRUE	279,0262162	0	280,2332766	275,4629285	0	0	TRUE	33,2%	282,5682997	0	0	TRUE	34,1%
2552	3	829,4746862	Non-Empty	603,0912362	283,2470175	0	0	TRUE	277,4004557	0	282,3923496	291,7052093	0	0	TRUE	35,2%	273,4531933	0	0	TRUE	33,0%
2553	1	838,2345872	Non-Empty	504,7728035	232,8965282	0	0	TRUE	228,5663002	0	257,8615727	242,8943097	0	0	TRUE	29,0%	293,3821055	7,532499334	0,008986147	FALSE	35,0%
2553	2	838,2345872	Non-Empty	586,3852214	331,8308331	0	0	TRUE	344,8224923	0	299,5530154	282,165823	0	0	TRUE	33,7%	259,852722	7,532499334	0,008986147	FALSE	31,0%
2553	3	838,2345872	Non-Empty	549,7147046	273,5072259	0	0	TRUE	264,8457947	0	280,8199991	313,1744545	0	0	TRUE	37,4%	284,9997596	7,532499334	0,008986147	FALSE	34,0%
2554	1	732,4621397	Non-Empty	584,6996869	264,1468509	0	0	TRUE	270,2939052	0	250,0758694	247,8393395	0	0	TRUE	33,8%	271,0109917	0	0	TRUE	37,0%
2554	2	732,4621397	Non-Empty	550,7771856	195,0276221	0	0	TRUE	165,9779489	0	235,5672265	233,4604532	0	0	TRUE	31,9%	197,7647777	0	0	TRUE	27,0%
2554	3	732,4621397	Non-Empty	577,0849382	273,2876667	0	0	TRUE	296,1902857	0	246,8190438	251,1623469	0	0	TRUE	34,3%	263,6863703	0	0	TRUE	36,0%
2555	1	1022,07405	Non-Empty	659,0046052	293,9792906	0	0	TRUE	305,4952502	0	313,0325658	299,9367944	0	0	TRUE	29,3%	340,6913501	7,879246546	0,007709076	FALSE	33,3%
2555	2	1022,07405	Non-Empty	791,9808811	408,342488	0	0	TRUE	401,2453692	0	376,1973821	360,4590997	0	0	TRUE	35,3%	305,4474173	7,879246546	0,007709076	FALSE	29,9%
2555	3	1022,07405	Non-Empty	700,7123868	319,7522717	0	0	TRUE	315,3334309	0	332,841024	361,6781561	0	0	TRUE	35,4%	375,9352829	7,879246546	0,007709076	FALSE	36,8%
2556	1	808,0666518	Non-Empty	591,6354249	312,2644118	0	0	TRUE	316,5086741	0	288,1893187	269,6611073	0	0	TRUE	33,4%	277,7729116	0	0	TRUE	34,4%
2556	2	808,0666518	Non-Empty	492,0611137	232,9106704	0	0	TRUE	257,3755026	0	239,6860485	224,2761998	0	0	TRUE	27,8%	328,2770773	0	0	TRUE	40,6%
2556	3	808,0666518	Non-Empty	575,2159395	262,8915696	0	0	TRUE	234,1824752	0	280,1912846	314,1293447	0	0	TRUE	38,9%	202,016663	0	0	TRUE	25,0%
2557	1	969,3820439	Non-Empty	639,1218368	274,8416698	0	0	TRUE	259,5159546	0	307,2806677	304,9027899	0	0	TRUE	31,5%	313,895138	0	0	TRUE	32,4%
2557	2	969,3820439	Non-Empty	663,4114801	298,5250913	0	0	TRUE	282,5931543	0	318,9587819	316,4905335	0	0	TRUE	32,6%	286,1985082	0	0	TRUE	29,5%
2557	3	969,3820439	Non-Empty	713,7120822	396,0152828	0	0	TRUE	427,272935	0	343,1425943	347,9887204	0	0	TRUE	35,9%	369,2883977	0	0	TRUE	38,1%
2558	1	1541,641756	Empty	676,2023086	459,3459253	179,8333369	0,116650536	FALSE	494,9841503	0,124257522	494,9841503	454,4288783	184,7503838	0,119840023	FALSE	29,5%	465,7042803	173,4749818	0,112526131	FALSE	30,2%
2558	2	1541,641756	Empty	788,0665263	507,2590768	179,8333369	0,116650536	FALSE	478,9462355	0,124257522	478,9462355	529,6050946	184,7503838	0,119840023	FALSE	34,4%	481,7630486	173,4749818	0,112526131	FALSE	31,3%
2558	3	1541,641756	Empty	834,8567455	575,0367535	179,8333369	0,116650536	FALSE	567,7113697	0,124257522	567,7113697	557,6077826	184,7503838	0,119840023	FALSE	36,2%	594,1744266	173,4749818	0,112526131	FALSE	38,5%
2559	1	1025,005597	Empty	525,9971088	368,9727464	126,5371376	0,123450192	FALSE	366,7825054	0,108577555	366,7825054	336,994029	139,1856764	0,135790162	FALSE	32,9%	265,7421918	210,4375135	0,20530377	FALSE	25,9%
2559	2	1025,005597	Empty	500,6155108	330,8316928	126,5371376	0,123450192	FALSE	315,8819962	0,108577555	315,8819962	320,7326336	139,1856764	0,135790162	FALSE	31,3%	379,6317026	210,4375135	0,205303		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2574	1	1002,201386	Empty	542,2241498	377,4672863	118,4822829	0,118222031	FALSE	366,5804455	0,22657976	366,5804455	340,7065122	108,9684764	0,108729122	FALSE	34,0%	253,5690253	196,1059634	0,195675207	FALSE	25,3%
2574	2	1002,201386	Empty	486,0675402	307,6966186	118,4822829	0,118222031	FALSE	283,1957196	0,22657976	283,1957196	305,4205099	108,9684764	0,108729122	FALSE	30,5%	350,1667492	196,1059634	0,195675207	FALSE	34,9%
2574	3	1002,201386	Empty	435,5197635	317,0374806	118,4822829	0,118222031	FALSE	352,4252204	0,22657976	352,4252204	356,0743634	108,9684764	0,108729122	FALSE	35,5%	398,4656111	196,1059634	0,195675207	FALSE	39,8%
2575	1	899,0632639	Non-Empty	684,7835174	286,0054212	0	0	TRUE	278,0825615	0	297,1882089	300,6691045	0	0	TRUE	33,4%	352,2103508	0	0	TRUE	39,2%
2575	2	899,0632639	Non-Empty	654,5708783	280,9671013	0	0	TRUE	298,2185608	0	284,0762693	287,4035878	0	0	TRUE	32,0%	250,2547229	0	0	TRUE	27,8%
2575	3	899,0632639	Non-Empty	732,274578	322,0907415	0	0	TRUE	322,7621415	0	317,7987856	310,9905716	0	0	TRUE	34,6%	296,5981902	0	0	TRUE	33,0%
2576	1	970,9434161	Non-Empty	667,4819149	324,8848036	0	0	TRUE	326,7974886	0	323,3205105	317,0814861	0	0	TRUE	32,7%	358,8269147	0	0	TRUE	37,0%
2576	2	970,9434161	Non-Empty	678,6352929	329,1965394	0	0	TRUE	324,2675822	0	328,7230777	322,3798014	0	0	TRUE	33,2%	316,6119835	0	0	TRUE	32,6%
2576	3	970,9434161	Non-Empty	658,3555973	316,8620732	0	0	TRUE	319,8783453	0	318,899828	331,4821287	0	0	TRUE	34,1%	295,504518	0	0	TRUE	30,4%
2577	1	1743,032695	Empty	861,2555191	567,2201354	231,1233676	0,132598412	FALSE	564,1375473	0,059934293	564,1375473	540,5840929	228,6809808	0,131197184	FALSE	31,0%	475,3725531	293,8925206	0,168609873	FALSE	27,3%
2577	2	1743,032695	Empty	946,7517958	632,8857473	231,1233676	0,132598412	FALSE	609,9724944	0,059934293	609,9724944	594,2475252	228,6809808	0,131197184	FALSE	34,1%	653,6372605	293,8925206	0,168609873	FALSE	37,5%
2577	3	1743,032695	Empty	807,8837664	542,926812	231,1233676	0,132598412	FALSE	568,9226532	0,059934293	568,9226532	608,2010767	228,6809808	0,131197184	FALSE	34,9%	614,0228811	293,8925206	0,168609873	FALSE	35,2%
2578	1	1214,980073	Empty	573,6298893	398,5768092	175,0530801	0,144078972	FALSE	415,939761	0,076830783	415,939761	369,9916774	203,6382119	0,167606215	FALSE	30,5%	501,8395955	286,3274034	0,235664279	FALSE	41,3%
2578	2	1214,980073	Empty	632,6324956	429,696226	175,0530801	0,144078972	FALSE	419,1759882	0,076830783	419,1759882	408,0483995	203,6382119	0,167606215	FALSE	33,6%	290,5387132	286,3274034	0,235664279	FALSE	23,9%
2578	3	1214,980073	Empty	585,9657841	386,7070382	175,0530801	0,144078972	FALSE	379,8643242	0,076830783	379,8643242	436,9399965	203,6382119	0,167606215	FALSE	36,0%	422,6017647	286,3274034	0,235664279	FALSE	34,8%
2579	1	1433,401302	Empty	712,316669	485,6283432	204,4893109	0,142660196	FALSE	476,4925395	0,040615403	476,4925395	470,9623121	209,9144417	0,146444992	FALSE	32,9%	489,4541031	272,3840773	0,190026392	FALSE	34,1%
2579	2	1433,401302	Empty	696,6950741	477,8266077	204,4893109	0,142660196	FALSE	476,5106633	0,040615403	476,5106633	460,6337843	209,9144417	0,146444992	FALSE	32,1%	541,8956142	272,3840773	0,190026392	FALSE	37,8%
2579	3	1433,401302	Empty	677,047125	469,9463511	204,4893109	0,142660196	FALSE	480,3980992	0,040615403	480,3980992	501,8052056	209,9144417	0,146444992	FALSE	35,0%	402,0515847	272,3840773	0,190026392	FALSE	28,0%
2580	1	884,2089811	Non-Empty	571,6911127	282,3089282	0	0	TRUE	297,1473003	0	281,3193126	293,6050523	3,615019892	0,004088422	FALSE	33,2%	300,6310536	0	0	TRUE	34,0%
2580	2	884,2089811	Non-Empty	568,1922988	218,0270877	0	0	TRUE	172,0824333	0	279,5976067	291,8081563	3,615019892	0,004088422	FALSE	33,0%	256,4206045	0	0	TRUE	29,0%
2580	3	884,2089811	Non-Empty	656,9872394	383,8729651	0	0	TRUE	414,9792475	0	292,5902618	298,7957725	3,615019892	0,004088422	FALSE	33,8%	327,157323	0	0	TRUE	37,0%
2581	1	1109,553659	Empty	504,8088451	354,7245513	157,1507964	0,141634246	FALSE	353,5762104	0,103343163	353,5762104	331,0999248	209,1203717	0,188472518	FALSE	29,8%	264,1794427	236,4790338	0,213129876	FALSE	23,8%
2581	2	1109,553659	Empty	554,5840958	415,7166732	157,1507964	0,141634246	FALSE	425,7852035	0,103343163	425,7852035	363,7470979	209,1203717	0,188472518	FALSE	32,8%	449,1050526	236,4790338	0,213129876	FALSE	40,5%
2581	3	1109,553659	Empty	496,968571	339,1124348	157,1507964	0,141634246	FALSE	330,1922454	0,103343163	330,1922454	414,7066366	209,1203717	0,188472518	FALSE	37,4%	396,269164	236,4790338	0,213129876	FALSE	35,7%
2582	1	1003,871289	Non-Empty	703,7257694	322,389472	0	0	TRUE	330,4715966	0	325,2343164	313,6412172	0	0	TRUE	31,2%	304,5452226	0	0	TRUE	30,3%
2582	2	1003,871289	Non-Empty	717,787064	342,3601048	0	0	TRUE	356,3515676	0	331,7328927	319,9081492	0	0	TRUE	31,9%	360,942486	0	0	TRUE	36,0%
2582	3	1003,871289	Non-Empty	750,6137218	339,1217124	0	0	TRUE	317,0481251	0	346,9040802	370,3219229	0	0	TRUE	36,9%	338,3835807	0	0	TRUE	33,7%
2583	1	946,4467396	Non-Empty	721,0592463	325,9848217	0	0	TRUE	317,1736779	0	324,1650741	314,8255161	0	0	TRUE	33,3%	268,7441359	0	0	TRUE	28,4%
2583	2	946,4467396	Non-Empty	714,1202795	315,7584946	0	0	TRUE	303,6599906	0	321,0455376	311,7958569	0	0	TRUE	32,9%	373,9048848	0	0	TRUE	39,5%
2583	3	946,4467396	Non-Empty	670,0570563	304,7034233	0	0	TRUE	325,6130711	0	301,2361279	319,8253665	0	0	TRUE	33,8%	303,7977189	0	0	TRUE	32,1%
2584	1	988,4204918	Non-Empty	765,6062508	320,4793858	0	0	TRUE	308,8565343	0	332,789516	322,6542333	0	0	TRUE	32,6%	366,8364712	0	0	TRUE	37,1%
2584	2	988,4204918	Non-Empty	701,1236019	317,2467299	0	0	TRUE	361,8738714	0	304,7605527	295,478907	0	0	TRUE	29,9%	326,0768633	0	0	TRUE	33,0%
2584	3	988,4204918	Non-Empty	807,2026796	350,6943761	0	0	TRUE	322,6900861	0	350,870423	370,2873515	0	0	TRUE	37,5%	295,5071573	0	0	TRUE	29,9%
2585	1	699,21828	Non-Empty	505,5430427	265,0467598	0	0	TRUE	270,8596283	0	245,7921533	217,6505113	0	0	TRUE	31,1%	207,1757867	0	0	TRUE	29,6%
2585	2	699,21828	Non-Empty	512,2347412	256,4991362	0	0	TRUE	247,0726827	0	249,045619	220,5314758	0	0	TRUE	31,5%	241,7050845	0	0	TRUE	34,6%
2585	3	699,21828	Non-Empty	420,3679506	177,6723841	0	0	TRUE	181,2859691	0	204,3805077	261,0362929	0	0	TRUE	37,3%	250,3374089	0	0	TRUE	35,8%
2586	1	731,3540562	Non-Empty	581,6721115	252,7881277	0	0	TRUE	242,3577344	0	252,2111333	245,3810016	0	0	TRUE	33,6%	259,2140959	0	0	TRUE	35,4%
2586	2	731,3540562	Non-Empty	550,8682383	229,3897722	0	0	TRUE	226,3648965	0	238,8546741	232,3862489	0	0	TRUE	31,8%	240,6988033	0	0	TRUE	32,9%
2586	3	731,3540562	Non-Empty	554,1744776	249,1761562	0	0	TRUE	262,6314253	0	240,2882488	253,5868056	0	0	TRUE	34,7%	231,441157	0	0	TRUE	31,6%
2587	1	1681,48977	Empty	837,1562926	607,389868	261,778336	0,155682384	FALSE	597,0925308	0,041905268	597,0925308	589,6867484	261,8865743	0,155746754	FALSE	35,1%	538,0767265	320,6607994	0,190700416	FALSE	32,0%
2587	2	1681,48977	Empty	710,4249044	493,95561	261,778336	0,155682384	FALSE	496,9554031	0,041905268	496,9554031	500,4180887	261,8865743	0,155746754	FALSE	29,8%	622,151215	320,6607994	0,190700416	FALSE	37,0%
2587	3	1681,48977	Empty	792,3158354	580,1442921	261,778336	0,155682384	FALSE	587,4418363	0,041905268	587,4418363	591,3849331	261,8865743	0,155746754	FALSE	35,2%	521,2618288	320,6607994	0,190700416	FALSE	31,0%
2588	1	564,5771412	Non-Empty	445,2162286	220,9380162	0	0	TRUE	219,3023567	0	203,9415227	183,8264843	0	0	TRUE	32,6%	195,4305489	0	0	TRUE	34,6%
2588	2	564,5771412	Non-Empty	410,1453267	188,3813445	0	0	TRUE	189,2599152	0	187,8764903	169,3459686	0	0	TRUE	30,0%	152,001538	0	0	TRUE	26,9%
2588	3	564,5771412	Non-Empty	377,1432444	155,2577804	0	0	TRUE	156,0148692	0	172,7591282	211,4046883	0	0	TRUE	37,4%	217,1450543	0	0	TRUE	38,5%
2589	1	1022,298281	Non-Empty	785,3100867	316,9442945	0	0	TRUE	320,6324069	0	329,2328574	312,3868151	0	0	TRUE	30,6%	366,0080266	0	0	TRUE	35,8%
2589	2	1022,298281	Non-Empty	888,0646054	400,8177316	0	0	TRUE	385,6247625	0	372,3115907	353,2613147	0	0	TRUE	34,6%	366,0080266	0	0	TRUE	35,8%
2589	3	1022,298281	Non-Empty	765,085303	304,5362551	0	0	TRUE	316,0411119	0	320,7538331	356,6501514	0	0	TRUE	34,9%	290,282228	0	0	TRUE	28,4%
2590	1	709,3805376	Non-Empty	645,1591608	269,6649888	0	0	TRUE	258,4618039	0	253,9395	245,8030375	0	0	TRUE	34,7%	236,4601792	0	0	TRUE	33,3%
2590	2	709,3805376	Non-Empty	565,3869247	209,8796455	0	0	TRUE	218,6633534	0	222,5405476	215,4101374	0	0	TRUE	30,4%	236,4601792	0	0	TRUE	33,3%
2590	3	709,38																			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2605	1	1064,588903	Non-Empty	773,0819679	338,0553223	0	0	TRUE	329,3058256	0	351,2022435	362,3220093	0	0	TRUE	34,0%	347,6208663	0	0	TRUE	32,7%
2605	2	1064,588903	Non-Empty	723,1135993	301,5323189	0	0	TRUE	306,2281874	0	328,5021885	338,9032251	0	0	TRUE	31,8%	358,4840183	0	0	TRUE	33,7%
2605	3	1064,588903	Non-Empty	847,2247823	425,0012617	0	0	TRUE	429,05489	0	384,884471	363,3636685	0	0	TRUE	34,1%	358,4840183	0	0	TRUE	33,7%
2606	1	1373,233744	Empty	657,9279946	468,3358771	190,6248205	0,138814547	FALSE	494,0579719	0,123393845	494,0579719	442,3610602	216,5996374	0,15772962	FALSE	32,2%	523,1366646	212,1175273	0,154465711	FALSE	38,1%
2606	2	1373,233744	Empty	648,4285034	420,013361	190,6248205	0,138814547	FALSE	406,912431	0,123393845	406,912431	435,9740315	216,5996374	0,15772962	FALSE	31,7%	425,04854	212,1175273	0,154465711	FALSE	31,0%
2606	3	1373,233744	Empty	712,8198834	484,8845064	190,6248205	0,138814547	FALSE	472,2633416	0,123393845	472,2633416	494,8986527	216,5996374	0,15772962	FALSE	36,0%	425,04854	212,1175273	0,154465711	FALSE	31,0%
2607	1	990,555243	Non-Empty	727,886677	357,6575234	0	0	TRUE	378,4310238	0	333,252092	302,5711586	0	0	TRUE	30,5%	361,9336465	0	0	TRUE	36,5%
2607	2	990,555243	Non-Empty	721,8663917	347,537931	0	0	TRUE	364,2121243	0	330,4957939	300,0686198	0	0	TRUE	30,3%	361,9336465	0	0	TRUE	36,5%
2607	3	990,555243	Non-Empty	713,8101364	285,3597886	0	0	TRUE	247,9120949	0	326,8073572	387,9154645	0	0	TRUE	39,2%	266,68795	0	0	TRUE	26,9%
2608	1	726,7570628	Non-Empty	488,055874	204,0106762	0	0	TRUE	196,8159627	0	227,7635099	249,043779	0	0	TRUE	34,3%	250,3274328	8,447318402	0,011623304	FALSE	34,4%
2608	2	726,7570628	Non-Empty	443,9763448	182,1549125	0	0	TRUE	197,1839646	0	207,1926924	226,5510008	0	0	TRUE	31,2%	250,3274328	8,447318402	0,011623304	FALSE	34,4%
2608	3	726,7570628	Non-Empty	625,2762971	340,5914741	0	0	TRUE	332,7571355	0	291,8008606	251,1622831	0	0	TRUE	34,6%	226,1021973	8,447318402	0,011623304	FALSE	31,1%
2609	1	876,0298028	Non-Empty	647,9260013	301,4096341	0	0	TRUE	292,2260697	0	300,6324184	288,5732347	0	0	TRUE	32,9%	316,0932278	0	0	TRUE	36,1%
2609	2	876,0298028	Non-Empty	652,2134138	300,8971358	0	0	TRUE	286,9136605	0	302,6217431	290,4827621	0	0	TRUE	33,2%	261,9058173	0	0	TRUE	29,9%
2609	3	876,0298028	Non-Empty	587,8887959	273,7230329	0	0	TRUE	296,8900725	0	272,7756413	296,973806	0	0	TRUE	33,9%	298,0307577	0	0	TRUE	34,0%
2610	1	917,2274407	Empty	481,3585126	306,0411712	111,7002001	0,121780264	FALSE	296,7007429	0,11423844	296,7007429	308,577624	123,9331018	0,135117089	FALSE	33,6%	364,9184442	152,2110216	0,165946869	FALSE	39,8%
2610	2	917,2274407	Empty	428,737208	287,0773379	111,7002001	0,121780264	FALSE	311,3943809	0,11423844	311,3943809	274,8444361	123,9331018	0,135117089	FALSE	30,0%	246,5665163	152,2110216	0,165946869	FALSE	26,9%
2610	3	917,2274407	Empty	505,0624597	324,1089317	111,7002001	0,121780264	FALSE	309,1323169	0,11423844	309,1323169	333,8053806	123,9331018	0,135117089	FALSE	36,4%	305,7424802	152,2110216	0,165946869	FALSE	33,3%
2611	1	767,9195586	Non-Empty	546,4558787	241,8013429	0	0	TRUE	237,9789682	0	251,2153539	232,922083	0	0	TRUE	30,3%	265,4536746	0	0	TRUE	34,6%
2611	2	767,9195586	Non-Empty	598,2998604	298,9776619	0	0	TRUE	300,4876246	0	275,0489418	255,020131	0	0	TRUE	33,2%	293,8951397	0	0	TRUE	38,3%
2611	3	767,9195586	Non-Empty	525,6603028	227,1405538	0	0	TRUE	229,4529658	0	241,6552629	279,9773446	0	0	TRUE	36,5%	208,5707443	0	0	TRUE	27,2%
2612	1	1134,208785	Empty	571,1929357	395,2389128	159,3585536	0,140501957	FALSE	386,7941912	0,052122801	386,7941912	391,4038545	162,5888689	0,143350035	FALSE	34,5%	300,6336538	227,3906041	0,200483903	FALSE	26,5%
2612	2	1134,208785	Empty	484,848126	335,4673117	159,3585536	0,140501957	FALSE	353,5957987	0,052122801	353,5957987	332,2369964	162,5888689	0,143350035	FALSE	29,3%	478,2808128	227,3906041	0,200483903	FALSE	42,2%
2612	3	1134,208785	Empty	580,6956265	403,5025601	159,3585536	0,140501957	FALSE	393,8187949	0,052122801	393,8187949	410,5679338	162,5888689	0,143350035	FALSE	36,2%	355,2943181	227,3906041	0,200483903	FALSE	31,3%
2613	1	774,4604932	Non-Empty	512,6801109	208,5164571	0	0	TRUE	210,4149389	0	234,5737268	238,9348369	0	0	TRUE	30,9%	261,1552826	0	0	TRUE	33,7%
2613	2	774,4604932	Non-Empty	574,4534874	259,0568091	0	0	TRUE	249,7222663	0	262,8377668	267,7243517	0	0	TRUE	34,6%	261,1552826	0	0	TRUE	33,7%
2613	3	774,4604932	Non-Empty	605,5133017	306,8872271	0	0	TRUE	314,3232881	0	277,0489996	267,8013046	0	0	TRUE	34,6%	252,149928	0	0	TRUE	32,6%
2614	1	619,9629271	Non-Empty	412,3642922	162,0235107	0	0	TRUE	158,8354058	0	187,7821641	192,0782826	0	0	TRUE	31,0%	181,1127652	0	0	TRUE	29,2%
2614	2	619,9629271	Non-Empty	456,7851648	206,5424145	0	0	TRUE	203,4523408	0	208,0105102	212,7694169	0	0	TRUE	34,3%	202,010392	0	0	TRUE	32,6%
2614	3	619,9629271	Non-Empty	492,2715	251,3970019	0	0	TRUE	257,6751804	0	224,1702528	215,1152276	0	0	TRUE	34,7%	236,8397699	0	0	TRUE	38,2%
2615	1	1646,105699	Empty	848,9532818	580,6124534	224,5682112	0,136423932	FALSE	588,872555	0,047452993	588,872555	537,059728	268,1209366	0,162881969	FALSE	32,6%	605,464165	247,3662728	0,150273626	FALSE	36,8%
2615	2	1646,105699	Empty	838,633401	551,9755118	224,5682112	0,136423932	FALSE	541,9185525	0,047452993	541,9185525	530,531227	268,1209366	0,162881969	FALSE	32,2%	510,8603892	247,3662728	0,150273626	FALSE	31,0%
2615	3	1646,105699	Empty	788,3218056	513,5177334	224,5682112	0,136423932	FALSE	515,3145912	0,047452993	515,3145912	578,5147436	268,1209366	0,162881969	FALSE	35,1%	529,7811444	247,3662728	0,150273626	FALSE	32,2%
2616	1	776,8048845	Non-Empty	590,3339832	244,5347093	0	0	TRUE	238,8226121	0	255,1793956	260,3178577	0	0	TRUE	33,5%	220,7761251	0	0	TRUE	28,4%
2616	2	776,8048845	Non-Empty	573,5959091	238,5533897	0	0	TRUE	243,5944472	0	247,9457057	252,9385053	0	0	TRUE	32,6%	278,0143797	0	0	TRUE	35,8%
2616	3	776,8048845	Non-Empty	633,1329225	293,7167854	0	0	TRUE	294,3878252	0	273,6797831	263,5485215	0	0	TRUE	33,9%	278,0143797	0	0	TRUE	35,8%
2617	1	1417,165304	Empty	685,0996558	447,8786109	206,1430145	0,145461517	FALSE	456,1720904	0,016610941	456,1720904	451,3958423	202,625783	0,142979639	FALSE	31,9%	472,3884347	243,7330924	0,171986353	FALSE	33,3%
2617	2	1417,165304	Empty	732,132798	480,9729313	206,1430145	0,145461517	FALSE	475,327589	0,016610941	475,327589	482,3848592	202,625783	0,142979639	FALSE	34,0%	429,4440316	243,7330924	0,171986353	FALSE	30,3%
2617	3	1417,165304	Empty	736,4764239	488,3137621	206,1430145	0,145461517	FALSE	485,6656248	0,016610941	485,6656248	483,3846027	202,625783	0,142979639	FALSE	34,1%	515,3328379	243,7330924	0,171986353	FALSE	36,4%
2618	1	1304,124652	Empty	550,1277981	387,1405814	216,9252024	0,166337782	FALSE	380,2491986	0,10409437	380,2491986	401,1139523	229,1099604	0,175681029	FALSE	30,8%	457,1158575	253,2725226	0,19420883	FALSE	35,1%
2618	2	1304,124652	Empty	616,7703001	451,4935242	216,9252024	0,166337782	FALSE	442,3125823	0,10409437	442,3125823	449,7049114	229,1099604	0,175681029	FALSE	34,5%	389,8929373	253,2725226	0,19420883	FALSE	29,9%
2618	3	1304,124652	Empty	605,5140557	465,4905466	216,9252024	0,166337782	FALSE	481,5628713	0,10409437	481,5628713	453,3057886	229,1099604	0,175681029	FALSE	34,8%	457,1158575	253,2725226	0,19420883	FALSE	35,1%
2619	1	1098,312071	Non-Empty	724,711509	337,0950695	0	0	TRUE	336,0732294	0	352,4914107	359,6615206	0	0	TRUE	32,7%	423,4456179	0	0	TRUE	38,6%
2619	2	1098,312071	Non-Empty	710,9858905	323,2461793	0	0	TRUE	322,1010674	0	345,8154265	352,8497386	0	0	TRUE	32,1%	330,816889	0	0	TRUE	30,1%
2619	3	1098,312071	Non-Empty	822,39847	437,9708226	0	0	TRUE	440,1377745	0	400,0052342	385,8008121	0	0	TRUE	35,1%	344,0495645	0	0	TRUE	31,3%
2620	1	1243,052029	Empty	557,3750666	362,8600549	155,5092766	0,12510279	FALSE	384,5570653	0,063115403	384,5570653	360,8742234	157,4951082	0,126700335	FALSE	29,0%	397,7766491	152,5588964	0,122729293	FALSE	32,0%
2620	2	1243,052029	Empty	669,818941	447,7893013	155,5092766	0,12510279	FALSE	441,9716838	0,063115403	441,9716838	433,6763601	157,4951082	0,126700335	FALSE	34,9%	447,4987303	152,5588964	0,122729293	FALSE	36,0%
2620	3	1243,052029	Empty	664,4940873	432,4026723	155,5092766	0,12510279	FALSE	416,5232794	0,063115403	416,5232794	448,501445	157,4951082	0,126700335	FALSE	36,1%	397,7766491	152,5588964	0,122729293	FALSE	32,0%
2621	1	1163,634914	Non-Empty	857,1294994	392,9015292	0	0	TRUE	374,7089392	0	398,6794665	385,6794665	0	0	TRUE	33,1%	344,340944	0	0	TRUE	29,6%
2621	2	1163,634914	Non-Empty	822,7574977																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2636	1	887,580243	Non-Empty	600,7083977	327,6566138	0	0	TRUE	353,0867281	0	299,0292482	277,3850828	0	0	TRUE	31,3%	295,860081	0	0	TRUE	33,3%
2636	2	887,580243	Non-Empty	599,3220333	288,2653512	0	0	TRUE	275,6905673	0	298,3391238	276,7449106	0	0	TRUE	31,2%	316,2642245	0	0	TRUE	35,6%
2636	3	887,580243	Non-Empty	582,9955066	271,658278	0	0	TRUE	258,8029476	0	290,211871	333,4502496	0	0	TRUE	37,6%	275,4559375	0	0	TRUE	31,0%
2637	1	1253,538217	Empty	619,1820228	394,9834922	145,9002278	0,11639073	FALSE	403,3610592	0,028052723	403,3610592	376,915326	167,7169503	0,133794844	FALSE	30,1%	443,3244913	173,0040135	0,138012556	FALSE	35,4%
2637	2	1253,538217	Empty	711,1503992	470,833962	145,9002278	0,11639073	FALSE	463,0936222	0,028052723	463,0936222	432,8993328	167,7169503	0,133794844	FALSE	34,5%	458,6115427	173,0040135	0,138012556	FALSE	36,6%
2637	3	1253,538217	Empty	620,9340872	387,7207625	145,9002278	0,11639073	FALSE	387,0835353	0,028052723	387,0835353	443,7235579	167,7169503	0,133794844	FALSE	35,4%	351,6021827	173,0040135	0,138012556	FALSE	28,0%
2638	1	855,6420932	Non-Empty	614,3875035	249,5602728	0	0	TRUE	258,031417	0	266,1027111	264,3405375	0	0	TRUE	30,9%	333,2500784	0	0	TRUE	38,9%
2638	2	855,6420932	Non-Empty	682,3827239	289,8721318	0	0	TRUE	270,6599146	0	295,5527119	293,5955158	0	0	TRUE	34,3%	261,1960074	0	0	TRUE	30,5%
2638	3	855,6420932	Non-Empty	678,7669903	316,2096885	0	0	TRUE	326,9507616	0	293,9866701	297,7060398	0	0	TRUE	34,8%	261,1960074	0	0	TRUE	30,5%
2639	1	790,4734523	Non-Empty	544,7936129	254,0933535	0	0	TRUE	260,4262886	0	256,0964518	246,968912	0	0	TRUE	31,2%	260,5956436	0	0	TRUE	33,0%
2639	2	790,4734523	Non-Empty	584,2667279	277,7232775	0	0	TRUE	268,2130216	0	274,6519644	264,863087	0	0	TRUE	33,5%	330,0878153	0	0	TRUE	41,8%
2639	3	790,4734523	Non-Empty	552,512695	258,6568213	0	0	TRUE	261,8341421	0	259,7250361	278,6414533	0	0	TRUE	35,2%	199,7899934	0	0	TRUE	25,3%
2640	1	1104,018075	Non-Empty	873,6653066	418,7376948	0	0	TRUE	419,7388557	0	390,2178881	374,4290452	0	0	TRUE	33,9%	382,726266	0	0	TRUE	34,7%
2640	2	1104,018075	Non-Empty	804,3897068	338,5906044	0	0	TRUE	328,7202747	0	359,2763158	344,7394187	0	0	TRUE	31,2%	412,166748	0	0	TRUE	37,3%
2640	3	1104,018075	Non-Empty	793,7493798	346,6897759	0	0	TRUE	355,589447	0	354,5238712	384,8496112	0	0	TRUE	34,9%	309,125061	0	0	TRUE	28,0%
2641	1	1229,930453	Empty	601,1343949	416,9718765	213,9024872	0,173914295	FALSE	405,9735943	0,09678473	405,9735943	409,0863903	200,6442483	0,163134629	FALSE	33,3%	428,4027419	216,6872773	0,17617848	FALSE	34,8%
2641	2	1229,930453	Empty	593,7148003	409,4099308	213,9024872	0,173914295	FALSE	398,2692974	0,09678473	398,2692974	404,0371781	200,6442483	0,163134629	FALSE	32,9%	400,7638554	216,6872773	0,17617848	FALSE	32,6%
2641	3	1229,930453	Empty	554,5739661	403,5486454	213,9024872	0,173914295	FALSE	425,687561	0,09678473	425,687561	416,8068843	200,6442483	0,163134629	FALSE	33,9%	400,7638554	216,6872773	0,17617848	FALSE	32,6%
2642	1	686,3295547	Non-Empty	548,9339214	223,1457673	0	0	TRUE	215,5462887	0	239,5999686	220,2455517	0	0	TRUE	32,1%	304,1687799	0	0	TRUE	44,3%
2642	2	686,3295547	Non-Empty	573,1765609	247,1019018	0	0	TRUE	239,2159181	0	239,7398216	229,9722843	0	0	TRUE	33,5%	187,1807876	0	0	TRUE	27,3%
2642	3	686,3295547	Non-Empty	518,7850986	216,0818855	0	0	TRUE	231,5673479	0	216,9897645	236,1171787	0	0	TRUE	34,4%	194,9799871	0	0	TRUE	28,4%
2643	1	1514,918669	Empty	724,2861298	475,5999279	222,7179153	0,147016417	FALSE	468,4226028	0,064363978	468,4226028	469,9573413	223,7138927	0,147673863	FALSE	31,0%	484,1492655	230,6894152	0,152278416	FALSE	32,0%
2643	2	1514,918669	Empty	805,0481013	552,5373254	222,7179153	0,147016417	FALSE	541,5354261	0,064363978	541,5354261	522,3602245	223,7138927	0,147673863	FALSE	34,5%	515,384702	230,6894152	0,152278416	FALSE	34,0%
2643	3	1514,918669	Empty	710,1110686	486,7814161	222,7179153	0,147016417	FALSE	504,9606404	0,064363978	504,9606404	522,6011035	223,7138927	0,147673863	FALSE	34,5%	515,384702	230,6894152	0,152278416	FALSE	34,0%
2644	1	710,3910064	Non-Empty	497,7827757	248,4970885	0	0	TRUE	267,4481274	0	233,3972217	219,7360871	0	0	TRUE	30,9%	231,9644103	0	0	TRUE	32,7%
2644	2	710,3910064	Non-Empty	523,8205941	240,1158562	0	0	TRUE	224,6478442	0	245,6056684	231,2299527	0	0	TRUE	32,5%	217,4666346	0	0	TRUE	30,6%
2644	3	710,3910064	Non-Empty	493,4978147	221,7780617	0	0	TRUE	218,2950348	0	231,3881164	259,4249666	0	0	TRUE	36,5%	260,9599615	0	0	TRUE	36,7%
2645	1	924,7132593	Non-Empty	645,3986762	318,1712041	0	0	TRUE	330,3596145	0	307,1645504	301,2327325	0	0	TRUE	32,6%	296,3824549	0	0	TRUE	32,1%
2645	2	924,7132593	Non-Empty	615,4182802	282,1518709	0	0	TRUE	288,3013441	0	292,8959825	287,2397124	0	0	TRUE	31,1%	284,5271567	0	0	TRUE	30,8%
2645	3	924,7132593	Non-Empty	682,1439503	324,3901843	0	0	TRUE	306,0523007	0	324,6527264	336,2408144	0	0	TRUE	36,4%	343,8036477	0	0	TRUE	37,2%
2646	1	723,541598	Non-Empty	517,6018814	258,2135167	0	0	TRUE	291,8550185	0	233,6822676	225,7570219	0	0	TRUE	31,2%	257,8960151	0	0	TRUE	35,6%
2646	2	723,541598	Non-Empty	546,0514653	207,7267155	0	0	TRUE	162,4318323	0	246,5264313	238,1655807	0	0	TRUE	32,9%	200,5857895	0	0	TRUE	27,7%
2646	3	723,541598	Non-Empty	538,977851	257,6013658	0	0	TRUE	269,2547472	0	243,3328991	259,6189954	0	0	TRUE	35,9%	265,0597933	0	0	TRUE	36,6%
2647	1	1834,82035	Empty	881,8553891	621,9114245	259,9439647	0,141672706	FALSE	630,7015186	0,062088732	630,7015186	601,1338473	280,7215418	0,152996745	FALSE	32,8%	670,7945365	322,9865806	0,176031719	FALSE	36,6%
2647	2	1834,82035	Empty	865,190118	580,7600231	259,9439647	0,141672706	FALSE	565,063987	0,062088732	565,063987	589,7736417	280,7215418	0,152996745	FALSE	32,1%	493,2312768	322,9865806	0,176031719	FALSE	26,9%
2647	3	1834,82035	Empty	893,9770192	632,1489023	259,9439647	0,141672706	FALSE	639,0548442	0,062088732	639,0548442	643,9128608	280,7215418	0,152996745	FALSE	35,1%	670,7945365	322,9865806	0,176031719	FALSE	36,6%
2648	1	1073,55241	Non-Empty	711,4879649	311,4902254	0	0	TRUE	325,9078226	0	329,6875606	320,7554024	0	0	TRUE	29,9%	308,6463179	0	0	TRUE	28,8%
2648	2	1073,55241	Non-Empty	821,7217652	406,1914447	0	0	TRUE	405,0764608	0	380,7674305	370,4513758	0	0	TRUE	34,5%	335,4851282	0	0	TRUE	31,3%
2648	3	1073,55241	Non-Empty	783,5886901	355,87074	0	0	TRUE	342,5681267	0	363,097419	382,3456319	0	0	TRUE	35,6%	429,4209641	0	0	TRUE	40,0%
2649	1	1128,961362	Non-Empty	843,9814001	362,7485946	0	0	TRUE	351,7182036	0	375,190648	359,2226147	0	0	TRUE	31,8%	392,6822127	0	0	TRUE	34,8%
2649	2	1128,961362	Non-Empty	884,2390439	417,4779606	0	0	TRUE	420,9192917	0	393,0871224	376,357419	0	0	TRUE	33,3%	343,5969361	0	0	TRUE	30,4%
2649	3	1128,961362	Non-Empty	811,3481607	348,7348063	0	0	TRUE	356,3238662	0	360,6835911	393,3813278	0	0	TRUE	34,8%	392,6822127	0	0	TRUE	34,8%
2650	1	683,2444356	Non-Empty	562,7389329	249,2102941	0	0	TRUE	248,0433536	0	237,2901545	232,7071582	0	0	TRUE	34,1%	280,4898209	0	0	TRUE	41,1%
2650	2	683,2444356	Non-Empty	502,3884444	201,2308711	0	0	TRUE	212,4349962	0	211,8421609	207,7506644	0	0	TRUE	30,4%	208,569354	0	0	TRUE	30,5%
2650	3	683,2444356	Non-Empty	555,2021534	232,8032704	0	0	TRUE	222,7660858	0	234,1121202	242,786613	0	0	TRUE	35,5%	194,1852606	0	0	TRUE	28,4%
2651	1	1018,763635	Non-Empty	720,7266957	349,8384517	0	0	TRUE	342,8270412	0	347,9208627	336,7063296	0	0	TRUE	33,1%	323,0226159	0	0	TRUE	31,7%
2651	2	1018,763635	Non-Empty	685,5172038	330,758628	0	0	TRUE	339,8768857	0	330,9239666	320,2572944	0	0	TRUE	31,4%	273,3268288	0	0	TRUE	26,8%
2651	3	1018,763635	Non-Empty	704,1502357	338,166555	0	0	TRUE	336,0597078	0	339,9188055	361,8000107	0	0	TRUE	35,5%	422,41419	0	0	TRUE	41,5%
2652	1	928,7143235	Non-Empty	619,8855099	336,1006776	0	0	TRUE	342,620808	0	319,8973146	306,5474923	3,53974751	0,003811449	FALSE	33,0%	316,6071557	0	0	TRUE	34,1%
2652	2	928,7143235	Non-Empty	582,4590528	296,3281652	0	0	TRUE	300,5022403	0	300,5830655	288,0392575	3,53974751	0,003811449	FALSE	31,0%	316,6071557	0	0	TRUE	34,1%
2652	3	928,7143235	Non-Empty	597,2846486	296,2854806	0	0	TRUE	285,5912752	0	308,239433	334,1275737	3,53974751	0,003811449	FALSE	36,0%	295,500012	0	0	TRUE	31,8%
2653	1	959,132019	Empty	448,118407	326,2354522	114,307495	0,119178062	FALSE	342,6897289	0,111353134	342,6897289	306,8436282	133,699319	0,139396159	FALSE	32,0%	309,0536506</				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2667	1	1466,543011	Empty	728,3767909	492,0423098	178,520771	0,121728971	FALSE	501,5149519	0,035560484	501,5149519	453,37743	217,1856508	0,148093611	FALSE	30,9%	447,1167718	228,0436197	0,155497396	FALSE	30,5%
2667	2	1466,543011	Empty	782,6718639	524,7172751	178,520771	0,121728971	FALSE	512,5698095	0,035560484	512,5698095	487,1733457	217,1856508	0,148093611	FALSE	33,2%	625,9634805	228,0436197	0,155497396	FALSE	42,7%
2667	3	1466,543011	Empty	692,9157261	449,7834264	178,520771	0,121728971	FALSE	452,45825	0,035560484	452,45825	525,9922357	217,1856508	0,148093611	FALSE	35,9%	393,4627591	228,0436197	0,155497396	FALSE	26,8%
2668	1	878,8038373	Non-Empty	596,1038793	280,5734861	0	0	TRUE	269,9441194	0	292,0860643	270,0483074	0	0	TRUE	30,7%	319,5650317	0	0	TRUE	36,4%
2668	2	878,8038373	Non-Empty	667,1591542	351,453779	0	0	TRUE	340,6494302	0	326,9025725	302,2379263	0	0	TRUE	34,4%	299,5922173	0	0	TRUE	34,1%
2668	3	878,8038373	Non-Empty	530,2438831	246,7765722	0	0	TRUE	268,2102877	0	259,8152005	306,5176036	0	0	TRUE	34,9%	259,6465883	0	0	TRUE	29,5%
2669	1	1541,856462	Empty	789,5866355	506,2280133	214,2527798	0,138957669	FALSE	481,4344841	0,139502606	481,4344841	532,4417304	220,7005879	0,143139516	FALSE	34,5%	503,4633345	234,8917345	0,152343451	FALSE	32,7%
2669	2	1541,856462	Empty	677,6810707	463,428291	214,2527798	0,138957669	FALSE	507,7406043	0,139502606	507,7406043	456,9804828	220,7005879	0,143139516	FALSE	29,6%	550,6630221	234,8917345	0,152343451	FALSE	35,7%
2669	3	1541,856462	Empty	850,284035	572,2001576	214,2527798	0,138957669	FALSE	552,6813734	0,139502606	552,6813734	552,4342487	220,7005879	0,143139516	FALSE	35,8%	487,7301053	234,8917345	0,152343451	FALSE	31,6%
2670	1	827,2644229	Non-Empty	574,2591861	265,9433256	0	0	TRUE	263,7252501	0	272,1560983	272,4989284	0	0	TRUE	32,9%	275,7548076	0	0	TRUE	33,3%
2670	2	827,2644229	Non-Empty	574,2398122	255,8920122	0	0	TRUE	243,6419971	0	272,1469165	272,4897351	0	0	TRUE	32,9%	296,9667159	0	0	TRUE	35,9%
2670	3	827,2644229	Non-Empty	597,0587798	305,4290852	0	0	TRUE	319,8971756	0	282,9614081	282,2757594	0	0	TRUE	34,1%	254,5428993	0	0	TRUE	30,8%
2671	1	681,7322123	Non-Empty	503,8520552	219,7002709	0	0	TRUE	210,7842363	0	227,8646573	231,1467082	0	0	TRUE	33,9%	214,4775499	0	0	TRUE	31,5%
2671	2	681,7322123	Non-Empty	462,5435292	198,9655875	0	0	TRUE	210,6233957	0	209,183076	212,1960465	0	0	TRUE	31,1%	229,7973749	0	0	TRUE	33,7%
2671	3	681,7322123	Non-Empty	541,0438772	263,0663539	0	0	TRUE	260,3245803	0	244,6844791	238,3894576	0	0	TRUE	35,0%	237,4572874	0	0	TRUE	34,8%
2672	1	746,0193794	Empty	384,5746808	265,3521724	43,92086421	0,058873624	FALSE	259,9628063	0,108299675	259,9628063	244,2201819	48,58853651	0,065130395	FALSE	32,7%	248,6731265	44,57627744	0,059752171	FALSE	33,3%
2672	2	746,0193794	Empty	344,1365002	224,617772	43,92086421	0,058873624	FALSE	218,9321861	0,108299675	218,9321861	218,5403327	48,58853651	0,065130395	FALSE	29,3%	241,9522312	44,57627744	0,059752171	FALSE	32,4%
2672	3	746,0193794	Empty	358,8076252	256,049435	43,92086421	0,058873624	FALSE	267,1243871	0,108299675	267,1243871	283,2588648	48,58853651	0,065130395	FALSE	38,0%	255,3940218	44,57627744	0,059752171	FALSE	34,2%
2673	1	851,8265437	Non-Empty	657,2878891	368,1082694	0	0	TRUE	381,6103241	0	318,145529	272,637398	0	0	TRUE	32,0%	315,1758212	0	0	TRUE	37,0%
2673	2	851,8265437	Non-Empty	569,7185562	290,5025085	0	0	TRUE	313,9681353	0	275,7595484	236,3143873	0	0	TRUE	27,7%	289,6210249	0	0	TRUE	34,0%
2673	3	851,8265437	Non-Empty	532,8651219	193,2157658	0	0	TRUE	156,2480843	0	257,9214663	342,8747584	0	0	TRUE	40,3%	247,0296977	0	0	TRUE	29,0%
2674	1	1483,651413	Empty	709,9609743	470,0703702	185,2143318	0,124836825	FALSE	485,4175133	0,043038954	485,4175133	472,5545866	182,7301155	0,123162431	FALSE	31,9%	524,7059875	209,612474	0,141281484	FALSE	35,4%
2674	2	1483,651413	Empty	733,5415242	474,1365119	185,2143318	0,124836825	FALSE	469,9692467	0,043038954	469,9692467	488,2499521	182,7301155	0,123162431	FALSE	32,9%	470,4260577	209,612474	0,141281484	FALSE	31,7%
2674	3	1483,651413	Empty	805,8621559	539,4445308	185,2143318	0,124836825	FALSE	528,2646528	0,043038954	528,2646528	522,8468742	182,7301155	0,123162431	FALSE	35,2%	488,5193676	209,612474	0,141281484	FALSE	32,9%
2675	1	815,2662107	Non-Empty	634,6886362	280,7356459	0	0	TRUE	283,7636122	0	274,3281244	268,5209104	0	0	TRUE	32,9%	222,3453302	0	0	TRUE	27,3%
2675	2	815,2662107	Non-Empty	613,9195769	247,5382466	0	0	TRUE	238,1378729	0	265,3512234	259,7340401	0	0	TRUE	31,9%	296,4604403	0	0	TRUE	36,4%
2675	3	815,2662107	Non-Empty	637,6008676	286,9923182	0	0	TRUE	293,3647255	0	275,5868629	287,0112602	0	0	TRUE	35,2%	296,4604403	0	0	TRUE	36,4%
2676	1	597,9729919	Non-Empty	473,2986941	215,0030057	0	0	TRUE	212,3894316	0	207,3376025	194,6917831	0	0	TRUE	32,6%	173,6050622	0	0	TRUE	29,0%
2676	2	597,9729919	Non-Empty	470,6994026	209,784787	0	0	TRUE	204,5522857	0	206,1989328	193,6225625	0	0	TRUE	32,4%	199,3243306	0	0	TRUE	33,3%
2676	3	597,9729919	Non-Empty	421,021238	173,1851991	0	0	TRUE	181,0312745	0	184,4364566	209,6586462	0	0	TRUE	35,1%	225,0435991	0	0	TRUE	37,6%
2677	1	658,960163	Non-Empty	410,7271276	189,7185152	0	0	TRUE	188,2259095	0	205,4278056	210,2016318	0	0	TRUE	31,9%	224,326864	0	0	TRUE	34,0%
2677	2	658,960163	Non-Empty	400,182194	197,4406427	0	0	TRUE	214,2150982	0	200,1536895	204,8049533	0	0	TRUE	31,1%	217,3166495	0	0	TRUE	33,0%
2677	3	658,960163	Non-Empty	506,5988615	271,8010051	0	0	TRUE	256,5191553	0	253,3786679	243,9535779	0	0	TRUE	37,0%	217,3166495	0	0	TRUE	33,0%
2678	1	1046,683376	Non-Empty	806,6990046	382,1518436	0	0	TRUE	362,013811	0	373,6246812	352,0251037	0	0	TRUE	33,6%	326,2389743	0	0	TRUE	31,2%
2678	2	1046,683376	Non-Empty	769,9139834	355,00410769	0	0	TRUE	344,5772987	0	356,5876057	335,9729569	0	0	TRUE	32,1%	407,7987178	0	0	TRUE	39,0%
2678	3	1046,683376	Non-Empty	683,2977726	309,4904552	0	0	TRUE	340,0922661	0	316,4710889	358,6853152	0	0	TRUE	34,3%	312,6456837	0	0	TRUE	29,9%
2679	1	911,8236232	Non-Empty	712,6252109	300,0897119	0	0	TRUE	289,0318435	0	307,0461908	287,9796833	0	0	TRUE	31,6%	311,0927656	0	0	TRUE	34,1%
2679	2	911,8236232	Non-Empty	764,3640189	344,0596942	0	0	TRUE	325,2330002	0	329,3386998	308,8879045	0	0	TRUE	33,9%	311,0927656	0	0	TRUE	34,1%
2679	3	911,8236232	Non-Empty	639,2672853	267,6742171	0	0	TRUE	297,5587795	0	275,4387325	314,9560353	0	0	TRUE	34,5%	289,6380921	0	0	TRUE	31,8%
2680	1	948,4439004	Empty	368,0108142	245,9702995	89,48580825	0,094350133	FALSE	257,4110138	0,118022584	257,4110138	248,8790681	120,6615413	0,127220536	FALSE	26,2%	339,5663347	143,9970738	0,151824556	FALSE	35,8%
2680	2	948,4439004	Empty	484,6711038	360,7903187	89,48580825	0,094350133	FALSE	370,3907627	0,118022584	370,3907627	327,7743153	120,6615413	0,127220536	FALSE	34,6%	304,4387828	143,9970738	0,151824556	FALSE	32,1%
2680	3	948,4439004	Empty	496,2056694	341,6832822	89,48580825	0,094350133	FALSE	320,6421239	0,118022584	320,6421239	371,790517	120,6615413	0,127220536	FALSE	39,2%	304,4387828	143,9970738	0,151824556	FALSE	32,1%
2681	1	635,8845603	Non-Empty	426,4565007	203,000259	0	0	TRUE	198,836116	0	209,6037325	204,896304	0	0	TRUE	32,2%	211,9615201	0	0	TRUE	33,3%
2681	2	635,8845603	Non-Empty	432,4287719	210,8410146	0	0	TRUE	208,5453559	0	212,5391089	207,7657556	0	0	TRUE	32,7%	184,6116466	0	0	TRUE	29,0%
2681	3	635,8845603	Non-Empty	434,8755834	222,0432867	0	0	TRUE	228,5030884	0	213,7417189	223,2225008	0	0	TRUE	35,1%	239,3113937	0	0	TRUE	37,6%
2682	1	875,5408461	Non-Empty	658,1066647	305,6369221	0	0	TRUE	307,9751733	0	297,0153159	285,1416949	0	0	TRUE	32,6%	344,6277799	0	0	TRUE	39,4%
2682	2	875,5408461	Non-Empty	665,0156436	296,6093582	0	0	TRUE	283,0110666	0	300,1334617	288,1351883	0	0	TRUE	32,9%	288,7421939	0	0	TRUE	33,0%
2682	3	875,5408461	Non-Empty	616,8425192	273,2945658	0	0	TRUE	284,5546062	0	278,3920685	302,2639629	0	0	TRUE	34,5%	242,1708723	0	0	TRUE	27,7%
2683	1	1510,459489	Empty	701,2309857	504,2052639	212,0660744	0,140398386	FALSE	536,9180172	0,171688242	536,9180172	456,3000183	259,9713201	0,172114063	FALSE	30,2%	527,9275884	190,1424587	0,125883852	FALSE	35,0%
2683	2	1510,459489	Empty	739,6297606	516,3519814	212,0660744	0,140398386	FALSE	522,8126772	0,171688242	522,8126772	481,2865948	259,9713201	0,172114063	FALSE	31,9%	542,5922437	190,1424587	0,125883852	FALSE	35,9%
2683	3	1510,459489	Empty	758,8141683	489,9022439	212,0660744	0,140398386	FALSE	450,7287947	0,171688242</											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2698	1	744,2593615	Non-Empty	572,2814947	268,2067747	0	0	TRUE	251,2827332	0	265,2567956	252,2173509	0	0	TRUE	33,9%	242,108467	0	0	TRUE	32,5%
2698	2	744,2593615	Non-Empty	528,4998072	242,9509161	0	0	TRUE	244,5527035	0	244,9636527	232,9217746	0	0	TRUE	31,3%	224,1745065	0	0	TRUE	30,1%
2698	3	744,2593615	Non-Empty	504,9300951	233,1016707	0	0	TRUE	248,4239249	0	234,0389132	259,120236	0	0	TRUE	34,8%	277,976388	0	0	TRUE	37,3%
2699	1	1224,037517	Empty	598,0815992	418,4135079	176,4103327	0,144121671	FALSE	433,4422077	0,089791371	433,4422077	394,0972267	200,7266139	0,163987305	FALSE	32,2%	437,156256	171,3079377	0,139953176	FALSE	35,7%
2699	2	1224,037517	Empty	590,3342224	396,3796385	176,4103327	0,144121671	FALSE	397,1218457	0,089791371	397,1218457	388,9922047	200,7266139	0,163987305	FALSE	31,8%	387,195541	171,3079377	0,139953176	FALSE	31,6%
2699	3	1224,037517	Empty	619,7120684	409,2443704	176,4103327	0,144121671	FALSE	393,4734634	0,089791371	393,4734634	440,9480854	200,7266139	0,163987305	FALSE	36,0%	399,6857198	171,3079377	0,139953176	FALSE	32,7%
2700	1	1387,852175	Empty	658,2407135	461,220292	220,0812899	0,158576896	FALSE	467,9973989	0,042121692	467,9973989	455,2849827	226,0165992	0,162853511	FALSE	32,8%	418,0277637	263,2738182	0,189698747	FALSE	30,1%
2700	2	1387,852175	Empty	655,292237	444,8968878	220,0812899	0,158576896	FALSE	438,2990668	0,042121692	438,2990668	453,2456117	226,0165992	0,162853511	FALSE	32,7%	401,3066531	263,2738182	0,189698747	FALSE	28,9%
2700	3	1387,852175	Empty	685,7118098	481,7349956	220,0812899	0,158576896	FALSE	481,5557097	0,042121692	481,5557097	479,321581	226,0165992	0,162853511	FALSE	34,5%	568,5177586	263,2738182	0,189698747	FALSE	41,0%
2701	1	895,208392	Non-Empty	655,387342	299,0569126	0	0	TRUE	291,003106	0	302,4209679	287,9529869	0	0	TRUE	32,2%	289,6262445	0	0	TRUE	32,4%
2701	2	895,208392	Non-Empty	619,3993788	296,6523675	0	0	TRUE	322,1819791	0	285,8147353	272,1412053	0	0	TRUE	30,4%	280,8496916	0	0	TRUE	31,4%
2701	3	895,208392	Non-Empty	665,2515398	299,4991119	0	0	TRUE	282,0233069	0	306,9726888	335,1141998	0	0	TRUE	37,4%	324,7324559	0	0	TRUE	36,3%
2702	1	1351,486724	Empty	723,3725576	469,5804794	167,8421481	0,124190749	FALSE	442,4549962	0,122633232	442,4549962	453,3903898	211,3524239	0,156385128	FALSE	33,5%	510,5616513	214,8788459	0,158994419	FALSE	37,8%
2702	2	1351,486724	Empty	652,5048744	452,482715	167,8421481	0,124190749	FALSE	479,1271507	0,122633232	479,1271507	408,9724392	211,3524239	0,156385128	FALSE	30,3%	405,4460172	214,8788459	0,158994419	FALSE	30,0%
2702	3	1351,486724	Empty	655,6090773	429,4235297	167,8421481	0,124190749	FALSE	429,9045771	0,122633232	429,9045771	489,123895	211,3524239	0,156385128	FALSE	36,2%	435,4790555	214,8788459	0,158994419	FALSE	32,2%
2703	1	1060,869302	Non-Empty	785,5182127	331,9713437	0	0	TRUE	313,0802101	0	352,3846808	361,7690323	0	0	TRUE	34,1%	284,6234713	0	0	TRUE	26,8%
2703	2	1060,869302	Non-Empty	712,2816156	300,9049922	0	0	TRUE	324,1841044	0	319,5306304	328,0400462	0	0	TRUE	30,9%	323,4357628	0	0	TRUE	30,5%
2703	3	1060,869302	Non-Empty	867,0366802	427,9929662	0	0	TRUE	423,6049877	0	388,9539909	371,0602237	0	0	TRUE	35,0%	452,810068	0	0	TRUE	42,7%
2704	1	768,2303049	Non-Empty	532,5314328	266,7649243	0	0	TRUE	255,1142689	0	267,2891034	255,2540199	0	0	TRUE	33,2%	247,2465349	0	0	TRUE	32,2%
2704	2	768,2303049	Non-Empty	491,0142219	232,8685771	0	0	TRUE	228,8387856	0	246,4507126	235,3539082	0	0	TRUE	30,6%	238,4163015	0	0	TRUE	31,0%
2704	3	768,2303049	Non-Empty	507,0322096	268,5968035	0	0	TRUE	284,2772505	0	254,4904889	277,6223768	0	0	TRUE	36,1%	282,5674685	0	0	TRUE	36,8%
2705	1	1016,895151	Non-Empty	794,9291597	368,8548123	0	0	TRUE	371,22609	0	351,1199561	344,1440555	0	0	TRUE	33,8%	281,7902226	0	0	TRUE	27,7%
2705	2	1016,895151	Non-Empty	719,935153	298,2821676	0	0	TRUE	305,0748073	0	317,9951272	311,6773365	0	0	TRUE	30,6%	392,0559618	0	0	TRUE	38,6%
2705	3	1016,895151	Non-Empty	787,3677137	349,7581712	0	0	TRUE	340,5942537	0	347,7800678	361,0737591	0	0	TRUE	35,5%	343,0489666	0	0	TRUE	33,7%
2706	1	1444,879147	Empty	781,2984993	486,343442	168,535412	0,116643259	FALSE	482,0045659	0,049719984	482,0045659	481,732146	166,8130259	0,115451196	FALSE	33,3%	492,5724364	177,5213107	0,122862394	FALSE	34,1%
2706	2	1444,879147	Empty	771,4831003	472,7912685	168,535412	0,116643259	FALSE	464,715618	0,049719984	464,715618	475,6801784	166,8130259	0,115451196	FALSE	32,9%	443,3151927	177,5213107	0,122862394	FALSE	30,7%
2706	3	1444,879147	Empty	763,9460907	485,7444361	168,535412	0,116643259	FALSE	498,1589627	0,049719984	498,1589627	487,4668223	166,8130259	0,115451196	FALSE	33,7%	508,9915176	177,5213107	0,122862394	FALSE	35,2%
2707	1	1496,63308	Empty	805,3688841	568,3028809	151,7275607	0,101379264	FALSE	603,6357937	0,30546123	603,6357937	466,3889524	245,2973262	0,163899442	FALSE	31,2%	617,1682804	178,952134	0,119569811	FALSE	41,2%
2707	2	1496,63308	Empty	734,2518308	505,5299906	151,7275607	0,101379264	FALSE	549,2070664	0,30546123	549,2070664	425,2050816	245,2973262	0,163899442	FALSE	28,4%	478,3054173	178,952134	0,119569811	FALSE	32,0%
2707	3	1496,63308	Empty	774,2091131	422,8002085	151,7275607	0,101379264	FALSE	343,7902199	0,30546123	343,7902199	605,039046	245,2973262	0,163899442	FALSE	40,4%	401,1593823	178,952134	0,119569811	FALSE	26,8%
2708	1	559,42674	Non-Empty	466,4365781	198,1103685	0	0	TRUE	180,215142	0	199,0792512	189,548149	0	0	TRUE	33,9%	196,0877233	0	0	TRUE	35,1%
2708	2	559,42674	Non-Empty	428,3890314	183,8922397	0	0	TRUE	189,8264312	0	182,8402222	174,0865785	0	0	TRUE	31,1%	201,8550093	0	0	TRUE	36,1%
2708	3	559,42674	Non-Empty	415,8940799	177,4241318	0	0	TRUE	189,3851667	0	177,5072666	195,7920125	0	0	TRUE	35,0%	161,4840074	0	0	TRUE	28,9%
2709	1	1053,011314	Empty	480,8857418	362,7728888	192,8159163	0,183109064	FALSE	359,052843	0,052721434	359,052843	342,2207752	219,0954629	0,20806563	FALSE	32,5%	307,6212829	236,9450593	0,225016632	FALSE	29,2%
2709	2	1053,011314	Empty	462,5227447	355,4323546	192,8159163	0,183109064	FALSE	362,7347717	0,052721434	362,7347717	329,152808	219,0954629	0,20806563	FALSE	31,3%	378,6108097	236,9450593	0,225016632	FALSE	36,0%
2709	3	1053,011314	Empty	452,7812497	334,8060711	192,8159163	0,183109064	FALSE	331,2236998	0,052721434	331,2236998	381,6377313	219,0954629	0,20806563	FALSE	36,2%	366,7792219	236,9450593	0,225016632	FALSE	34,8%
2710	1	1346,113693	Empty	702,3318928	492,2131981	173,35719	0,128783468	FALSE	487,1445646	0,023872979	487,1445646	472,1640921	182,7953999	0,135794919	FALSE	35,1%	457,9562048	258,7514719	0,192221113	FALSE	34,0%
2710	2	1346,113693	Empty	587,3066796	387,7988809	173,35719	0,128783468	FALSE	393,3411435	0,023872979	393,3411435	394,8348751	182,7953999	0,135794919	FALSE	29,3%	513,4660478	258,7514719	0,192221113	FALSE	38,1%
2710	3	1346,113693	Empty	671,6253042	466,1016138	173,35719	0,128783468	FALSE	465,6279847	0,023872979	465,6279847	479,1147256	182,7953999	0,135794919	FALSE	35,6%	374,6914403	258,7514719	0,192221113	FALSE	27,8%
2711	1	1116,512602	Non-Empty	821,5365965	386,2533743	0	0	TRUE	370,4806115	0	386,2058853	372,6353349	0	0	TRUE	33,4%	313,6271354	0	0	TRUE	28,1%
2711	2	1116,512602	Non-Empty	785,0800824	372,4261338	0	0	TRUE	379,2826446	0	369,0676101	356,0992665	0	0	TRUE	31,9%	363,807477	0	0	TRUE	32,6%
2711	3	1116,512602	Non-Empty	768,427301	357,8330938	0	0	TRUE	366,7493459	0	361,2391065	387,7780006	0	0	TRUE	34,7%	439,0779895	0	0	TRUE	39,3%
2712	1	905,4270444	Non-Empty	767,4785414	329,4096686	0	0	TRUE	301,5771138	0	325,3050498	306,9732302	0	0	TRUE	33,9%	264,0828879	0	0	TRUE	29,2%
2712	2	905,4270444	Non-Empty	684,3882229	298,5596282	0	0	TRUE	322,9673515	0	290,0862147	273,7390717	0	0	TRUE	30,2%	311,2405465	0	0	TRUE	34,4%
2712	3	905,4270444	Non-Empty	684,269234	277,4577475	0	0	TRUE	280,8825791	0	290,0357798	324,7147424	0	0	TRUE	35,9%	330,1036099	0	0	TRUE	36,5%
2713	1	955,7882815	Non-Empty	706,157276	303,2714075	0	0	TRUE	310,5488316	0	308,7149942	310,0174299	0	0	TRUE	32,4%	266,0441608	0	0	TRUE	27,8%
2713	2	955,7882815	Non-Empty	691,1214224	289,6190475	0	0	TRUE	298,2799652	0	302,1416803	303,4163838	0	0	TRUE	31,7%	325,1650855	0	0	TRUE	34,0%
2713	3	955,7882815	Non-Empty	788,999461	362,8978265	0	0	TRUE	346,9594847	0	344,931607	342,3544678	0	0	TRUE	35,8%	364,5790352	0	0	TRUE	38,1%
2714	1	956,8000369	Non-Empty	784,5864928	305,4070693	0	0	TRUE	302,1193293	0	314,8250067	307,2971686	0	0	TRUE	32,1%	354,370384	0	0	TRUE	37,0%
2714	2	956,8000369	Non-Empty	827,6965702	337,1524726	0	0	TRUE	322,5000584	0	3										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2729	1	1425,491551	Empty	780,5430228	521,8817659	198,9113224	0,139538759	FALSE	494,3660329	0,138419021	494,3660329	482,9108961	165,1669389	0,115866656	FALSE	33,9%	385,7212432	262,3565918	0,184046403	FALSE	27,1%
2729	2	1425,491551	Empty	724,689791	475,8604798	198,9113224	0,139538759	FALSE	458,1766925	0,138419021	458,1766925	448,3552939	165,1669389	0,115866656	FALSE	31,5%	402,491732	262,3565918	0,184046403	FALSE	28,2%
2729	3	1425,491551	Empty	613,6953084	427,749305	198,9113224	0,139538759	FALSE	472,9488254	0,138419021	472,9488254	494,2253608	165,1669389	0,115866656	FALSE	34,7%	637,2785756	262,3565918	0,184046403	FALSE	44,7%
2730	1	1084,377141	Non-Empty	826,1809017	408,6549257	0	0	TRUE	411,5016407	0	381,5626997	366,3264688	0	0	TRUE	33,8%	345,5707372	0	0	TRUE	31,9%
2730	2	1084,377141	Non-Empty	756,4605717	327,3658651	0	0	TRUE	318,6438493	0	349,7293651	335,4126553	0	0	TRUE	30,9%	345,5707372	0	0	TRUE	31,9%
2730	3	1084,377141	Non-Empty	762,85374	348,3563499	0	0	TRUE	354,2316507	0	352,6850759	382,6380166	0	0	TRUE	35,3%	393,2356664	0	0	TRUE	36,3%
2731	1	892,5205632	Non-Empty	519,1876539	277,4733725	0	0	TRUE	294,0688973	0	277,900784	265,0055512	0	0	TRUE	29,7%	241,5055641	4,892200592	0,005481331	FALSE	27,1%
2731	2	892,5205632	Non-Empty	605,3899845	314,6755011	0	0	TRUE	282,270824	0	324,04151	309,0052418	0	0	TRUE	34,6%	346,5079833	4,892200592	0,005481331	FALSE	38,8%
2731	3	892,5205632	Non-Empty	542,8723433	300,3716895	0	0	TRUE	316,1808418	0	290,5782692	318,5097701	0	0	TRUE	35,7%	304,5070157	4,892200592	0,005481331	FALSE	34,1%
2732	1	751,4157071	Non-Empty	659,3415005	278,6515957	0	0	TRUE	265,4582876	0	267,2410004	263,4792118	0	0	TRUE	35,1%	222,0091862	0	0	TRUE	29,5%
2732	2	751,4157071	Non-Empty	553,0374964	213,414098	0	0	TRUE	241,2872965	0	224,154393	220,9991082	0	0	TRUE	29,4%	324,4749644	0	0	TRUE	43,2%
2732	3	751,4157071	Non-Empty	641,5265007	259,3500135	0	0	TRUE	244,670123	0	260,0203138	266,9373871	0	0	TRUE	35,5%	204,9315565	0	0	TRUE	27,3%
2733	1	1311,629266	Empty	653,5974496	440,1699848	153,5987608	0,117105317	FALSE	450,8830501	0,043256233	450,8830501	417,746331	176,0224146	0,134201347	FALSE	31,8%	366,6920528	227,0766928	0,173125668	FALSE	28,0%
2733	2	1311,629266	Empty	662,3096544	433,2066265	153,5987608	0,117105317	FALSE	428,2441287	0,043256233	428,2441287	423,3147303	176,0224146	0,134201347	FALSE	32,3%	423,1062148	227,0766928	0,173125668	FALSE	32,3%
2733	3	1311,629266	Empty	668,143752	438,2526545	153,5987608	0,117105317	FALSE	432,502087	0,043256233	432,502087	470,5682045	176,0224146	0,134201347	FALSE	35,9%	521,8309982	227,0766928	0,173125668	FALSE	39,8%
2734	1	870,0754854	Non-Empty	653,7660991	256,7854762	0	0	TRUE	247,8488637	0	279,6302006	275,0310774	0	0	TRUE	31,6%	323,7490178	0	0	TRUE	37,2%
2734	2	870,0754854	Non-Empty	692,7745985	303,2414666	0	0	TRUE	301,7523451	0	296,3149974	291,4414567	0	0	TRUE	33,5%	232,6946066	0	0	TRUE	26,7%
2734	3	870,0754854	Non-Empty	687,6668191	310,0485426	0	0	TRUE	320,4742766	0	294,1302873	303,6029513	0	0	TRUE	34,9%	313,631861	0	0	TRUE	36,0%
2735	1	1316,617675	Empty	579,7251099	396,2484154	207,7623964	0,157800097	FALSE	387,2132027	0,084161909	390,2406602	227,5515539	0,172830396	FALSE	29,6%	369,2952015	254,7878182	0,193516936	FALSE	28,0%	
2735	2	1316,617675	Empty	684,4807997	503,2199081	207,7623964	0,157800097	FALSE	496,4004983	0,084161909	496,4004983	460,7567183	227,5515539	0,172830396	FALSE	35,0%	433,520454	254,7878182	0,193516936	FALSE	32,9%
2735	3	1316,617675	Empty	575,7362109	417,1493516	207,7623964	0,157800097	FALSE	433,003974	0,084161909	433,003974	465,6202965	227,5515539	0,172830396	FALSE	35,4%	513,8020195	254,7878182	0,193516936	FALSE	39,0%
2736	1	1660,971458	Empty	865,6711679	560,9823787	219,4090688	0,132096833	FALSE	547,0615957	0,037938214	547,0615957	546,808513	237,6092298	0,143054373	FALSE	32,9%	459,4176374	295,7576288	0,178063041	FALSE	27,7%
2736	2	1660,971458	Empty	855,2192957	567,0766743	219,4090688	0,132096833	FALSE	569,7020589	0,037938214	569,7020589	540,2064996	237,6092298	0,143054373	FALSE	32,5%	636,1167288	295,7576288	0,178063041	FALSE	38,3%
2736	3	1660,971458	Empty	812,3850133	532,9124054	219,4090688	0,132096833	FALSE	544,2078037	0,037938214	544,2078037	573,9564458	237,6092298	0,143054373	FALSE	34,6%	565,4370922	295,7576288	0,178063041	FALSE	34,0%
2737	1	1576,737341	Empty	833,0600341	567,4976052	209,0583781	0,132589222	FALSE	566,7466379	0,055354757	566,7466379	527,4275486	236,5872671	0,150048623	FALSE	33,5%	584,6329465	295,4065111	0,187353025	FALSE	37,1%
2737	2	1576,737341	Empty	764,5569918	511,5357305	209,0583781	0,132589222	FALSE	523,3259307	0,055354757	523,3259307	484,0568548	236,5872671	0,150048623	FALSE	30,7%	425,1875975	295,4065111	0,187353025	FALSE	27,0%
2737	3	1576,737341	Empty	773,5546994	497,7040049	209,0583781	0,132589222	FALSE	486,664772	0,055354757	486,664772	565,2529373	236,5872671	0,150048623	FALSE	35,8%	566,9167966	295,4065111	0,187353025	FALSE	36,0%
2738	1	867,7708816	Non-Empty	672,536631	310,8228179	0	0	TRUE	310,5213063	0	298,9781646	291,965163	0	0	TRUE	33,6%	307,5643631	0	0	TRUE	35,4%
2738	2	867,7708816	Non-Empty	629,1642728	270,0127505	0	0	TRUE	272,2735296	0	279,6968535	273,1361252	0	0	TRUE	31,5%	318,5488046	0	0	TRUE	36,7%
2738	3	867,7708816	Non-Empty	650,3068822	286,9353132	0	0	TRUE	284,9760457	0	289,0958635	302,6695934	0	0	TRUE	34,9%	241,6577139	0	0	TRUE	27,8%
2739	1	1202,114	Non-Empty	817,7263995	381,7522216	0	0	TRUE	386,0853521	0	389,6101241	378,9669972	0	0	TRUE	31,5%	414,522069	0	0	TRUE	34,5%
2739	2	1202,114	Non-Empty	833,6489997	414,3201321	0	0	TRUE	435,2985841	0	397,1965322	386,3461646	0	0	TRUE	32,1%	428,3394713	0	0	TRUE	35,6%
2739	3	1202,114	Non-Empty	871,6605598	406,041652	0	0	TRUE	380,7300638	0	415,3073437	436,8008382	0	0	TRUE	36,3%	359,2524598	0	0	TRUE	29,9%
2740	1	689,1303673	Non-Empty	502,9771505	242,7601525	0	0	TRUE	249,7290949	0	232,5213489	224,8998178	0	0	TRUE	32,6%	263,2632864	0	0	TRUE	38,2%
2740	2	689,1303673	Non-Empty	491,11393	213,2806677	0	0	TRUE	202,6333461	0	227,0370997	219,595533	0	0	TRUE	31,9%	263,2632864	0	0	TRUE	38,2%
2740	3	689,1303673	Non-Empty	496,5971084	233,0895471	0	0	TRUE	236,7679263	0	229,5719187	244,6352195	0	0	TRUE	35,5%	162,6037945	0	0	TRUE	23,6%
2741	1	1357,837521	Empty	752,9473688	530,3791794	180,7468502	0,133113754	FALSE	519,6730947	0,054825826	519,6730947	460,5080093	217,9943618	0,160545248	FALSE	33,9%	537,1664918	202,8639407	0,14940222	FALSE	39,6%
2741	2	1357,837521	Empty	670,3038503	447,2302566	180,7468502	0,133113754	FALSE	436,0187675	0,054825826	436,0187675	409,9626409	217,9943618	0,160545248	FALSE	30,2%	462,5600346	202,8639407	0,14940222	FALSE	34,1%
2741	3	1357,837521	Empty	570,172616	380,228085	180,7468502	0,133113754	FALSE	402,1456588	0,054825826	402,1456588	487,3668709	217,9943618	0,160545248	FALSE	35,9%	358,1109946	202,8639407	0,14940222	FALSE	26,4%
2742	1	685,0611071	Non-Empty	479,9988287	253,0262685	0	0	TRUE	265,7442784	0	234,1862002	214,9780898	0	0	TRUE	31,4%	266,8132733	0	0	TRUE	38,9%
2742	2	685,0611071	Non-Empty	480,681597	232,6638201	0	0	TRUE	224,3366131	0	234,5193154	215,2838827	0	0	TRUE	31,4%	201,9127473	0	0	TRUE	29,5%
2742	3	685,0611071	Non-Empty	443,4523913	199,3710185	0	0	TRUE	194,9802156	0	216,3555915	254,7991346	0	0	TRUE	37,2%	216,3350864	0	0	TRUE	31,6%
2743	1	1049,148102	Empty	460,8607212	313,6993802	131,5744217	0,125410723	FALSE	325,4267332	0,118305953	325,4267332	290,4715112	179,5168345	0,171107239	FALSE	27,7%	316,9301557	170,7615216	0,162762075	FALSE	30,2%
2743	2	1049,148102	Empty	575,6452742	419,6221595	131,5744217	0,125410723	FALSE	422,4877388	0,118305953	422,4877388	362,8179731	179,5168345	0,171107239	FALSE	34,6%	371,573286	170,7615216	0,162762075	FALSE	35,4%
2743	3	1049,148102	Empty	489,3081882	315,8265619	131,5744217	0,125410723	FALSE	301,2336295	0,118305953	301,2336295	395,8586172	179,5168345	0,171107239	FALSE	37,7%	360,6446599	170,7615216	0,162762075	FALSE	34,4%
2744	1	1363,707693	Empty	626,7006031	418,2194267	182,1587667	0,133576108	FALSE	423,3331989	0,076788075	423,3331989	423,2480577	197,97693	0,145175488	FALSE	31,0%	542,5503726	264,1020939	0,193664739	FALSE	39,8%
2744	2	1363,707693	Empty	659,5148599	461,2276334	182,1587667	0,133576108	FALSE	476,5353555	0,076788075	476,5353555	445,40947	197,97693	0,145175488	FALSE	32,7%	454,5692311	264,1020939	0,193664739	FALSE	33,3%
2744	3	1363,707693	Empty	718,2770765	484,2606333	182,1587667	0,133576108	FALSE	463,8391389	0,076788075	463,8391389	495,0501656	197,97693	0,145175488	FALSE	36,3%	366,5880896	264,1020939	0,193664739	FALSE	26,9%
2745	1	896,5049414	Non-Empty	752,6093294	332,0990144	0															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2760	1	922,9263594	Non-Empty	686,2941242	316,1116513	0	0	TRUE	305,5262839	0	316,4277087	299,2378773	0	0	TRUE	32,4%	307,6421198	0	0	TRUE	33,3%
2760	2	922,9263594	Non-Empty	705,2693448	327,0946687	0	0	TRUE	308,5170981	0	325,1765604	307,5114506	0	0	TRUE	33,3%	307,6421198	0	0	TRUE	33,3%
2760	3	922,9263594	Non-Empty	610,1542069	279,7200394	0	0	TRUE	308,8829774	0	281,3220903	316,1770315	0	0	TRUE	34,3%	307,6421198	0	0	TRUE	33,3%
2761	1	789,8433822	Non-Empty	684,8818574	282,2271242	0	0	TRUE	279,7333039	0	271,7893299	265,9635692	0	0	TRUE	33,7%	259,816902	0	0	TRUE	32,9%
2761	2	789,8433822	Non-Empty	631,3842247	244,8561513	0	0	TRUE	258,4889908	0	250,5592658	245,1885681	0	0	TRUE	31,0%	249,4242259	0	0	TRUE	31,6%
2761	3	789,8433822	Non-Empty	674,0600387	262,7601066	0	0	TRUE	251,6210875	0	267,4947865	278,6912449	0	0	TRUE	35,3%	280,6022542	0	0	TRUE	35,5%
2762	1	1014,770622	Non-Empty	734,3892173	320,2101578	0	0	TRUE	332,7735455	0	324,7221194	327,4298553	0	0	TRUE	32,3%	385,3559324	0	0	TRUE	38,0%
2762	2	1014,770622	Non-Empty	758,1133554	329,4096098	0	0	TRUE	327,4483112	0	335,2121324	338,0073406	0	0	TRUE	33,3%	333,9751414	0	0	TRUE	32,9%
2762	3	1014,770622	Non-Empty	802,4953907	365,1508544	0	0	TRUE	354,5487653	0	354,8363701	349,3334261	0	0	TRUE	34,4%	295,4395482	0	0	TRUE	29,1%
2763	1	797,5195488	Non-Empty	533,9237244	238,9853821	0	0	TRUE	255,6499881	0	245,8047846	252,92563	0	0	TRUE	31,7%	221,533208	0	0	TRUE	27,8%
2763	2	797,5195488	Non-Empty	556,547619	235,6660106	0	0	TRUE	226,3873505	0	256,2202453	263,6428215	0	0	TRUE	33,1%	283,5625062	0	0	TRUE	35,6%
2763	3	797,5195488	Non-Empty	641,8570502	322,868156	0	0	TRUE	315,4822101	0	295,4945188	280,9510973	0	0	TRUE	35,2%	292,4238345	0	0	TRUE	36,7%
2764	1	882,2338033	Empty	498,3209328	313,1646018	75,41117302	0,085477538	FALSE	304,1005305	0,082982071	304,1005305	303,3213876	83,75888137	0,094939551	FALSE	34,4%	362,1801929	116,8301781	0,132425416	FALSE	41,1%
2764	2	882,2338033	Empty	417,8473513	262,6858869	75,41117302	0,085477538	FALSE	283,6166821	0,082982071	283,6166821	254,3381786	83,75888137	0,094939551	FALSE	28,8%	287,88682	116,8301781	0,132425416	FALSE	32,6%
2764	3	882,2338033	Empty	494,342298	306,3833145	75,41117302	0,085477538	FALSE	294,5165907	0,082982071	294,5165907	324,5742372	83,75888137	0,094939551	FALSE	36,8%	232,1667903	116,8301781	0,132425416	FALSE	26,3%
2765	1	1108,177137	Empty	548,4175833	364,0249182	141,1083377	0,127333738	FALSE	354,3631902	0,061007527	354,3631902	345,7179235	159,1443056	0,143609086	FALSE	31,2%	343,9170425	182,6334563	0,164805292	FALSE	31,0%
2765	2	1108,177137	Empty	582,8220143	403,7620146	141,1083377	0,127333738	FALSE	399,4329519	0,061007527	399,4329519	367,4061932	159,1443056	0,143609086	FALSE	33,2%	343,9170425	182,6334563	0,164805292	FALSE	31,0%
2765	3	1108,177137	Empty	501,1303503	340,390204	141,1083377	0,127333738	FALSE	354,3809948	0,061007527	354,3809948	395,0530202	159,1443056	0,143609086	FALSE	35,6%	420,3430519	182,6334563	0,164805292	FALSE	37,9%
2766	1	1116,27739	Non-Empty	749,3130594	378,294857	0	0	TRUE	391,570118	0	368,6130747	383,0808357	0	0	TRUE	34,3%	390,1552043	0	0	TRUE	35,0%
2766	2	1116,27739	Non-Empty	680,0277564	248,2285929	0	0	TRUE	200,7228928	0	334,5292318	347,6592299	0	0	TRUE	31,1%	314,2916923	0	0	TRUE	28,2%
2766	3	1116,27739	Non-Empty	839,8169644	489,7539401	0	0	TRUE	523,9843793	0	413,1350836	385,5373244	0	0	TRUE	34,5%	411,8304934	0	0	TRUE	36,9%
2767	1	1014,074441	Non-Empty	645,9421309	324,6284624	0	0	TRUE	337,3612865	0	324,8828903	324,3300076	0	0	TRUE	32,0%	356,004857	0	0	TRUE	35,1%
2767	2	1014,074441	Non-Empty	656,3125025	321,476284	0	0	TRUE	320,6865581	0	330,0987698	329,5370108	0	0	TRUE	32,5%	356,004857	0	0	TRUE	35,1%
2767	3	1014,074441	Non-Empty	713,9592854	367,9696947	0	0	TRUE	356,0265965	0	359,0927811	360,2074227	0	0	TRUE	35,5%	302,0647271	0	0	TRUE	29,8%
2768	1	829,0706599	Non-Empty	499,5499676	220,3979854	0	0	TRUE	239,3205875	0	240,3316683	244,4806776	0	0	TRUE	29,5%	292,6131741	0	0	TRUE	35,3%
2768	2	829,0706599	Non-Empty	587,1049358	276,2923109	0	0	TRUE	263,5542704	0	282,4540443	287,3302408	0	0	TRUE	34,7%	282,8594016	0	0	TRUE	34,1%
2768	3	829,0706599	Non-Empty	636,6395097	332,3803636	0	0	TRUE	326,195802	0	306,2849472	297,2597415	0	0	TRUE	35,9%	253,5980842	0	0	TRUE	30,6%
2769	1	1098,146487	Non-Empty	822,6665963	395,4696119	0	0	TRUE	394,0486149	0	380,3065249	370,8674927	0	0	TRUE	33,8%	405,2683464	0	0	TRUE	36,9%
2769	2	1098,146487	Non-Empty	768,5590516	345,496265	0	0	TRUE	348,2094656	0	355,2934122	346,4751939	0	0	TRUE	31,6%	313,7561391	0	0	TRUE	28,6%
2769	3	1098,146487	Non-Empty	784,2488008	357,18061	0	0	TRUE	355,8884065	0	362,5465498	380,8038003	0	0	TRUE	34,7%	379,1220014	0	0	TRUE	34,5%
2770	1	752,2111016	Non-Empty	456,8061514	264,1112432	0	0	TRUE	287,3620213	0	245,4305988	235,3911533	0	0	TRUE	31,3%	285,8402186	0	0	TRUE	38,0%
2770	2	752,2111016	Non-Empty	456,956061	222,4998277	0	0	TRUE	203,9892806	0	245,5111415	235,4684014	0	0	TRUE	31,3%	225,6633305	0	0	TRUE	30,0%
2770	3	752,2111016	Non-Empty	486,2859481	265,6000307	0	0	TRUE	260,8597997	0	261,2693613	281,3515469	0	0	TRUE	37,4%	240,7075525	0	0	TRUE	32,0%
2771	1	1165,938692	Non-Empty	835,172848	383,3587344	0	0	TRUE	375,7198706	0	389,7435249	379,1713984	0	0	TRUE	32,5%	384,7597685	0	0	TRUE	33,0%
2771	2	1165,938692	Non-Empty	844,3250992	404,6377089	0	0	TRUE	409,1255683	0	394,0145338	383,3265525	0	0	TRUE	32,9%	384,7597685	0	0	TRUE	33,0%
2771	3	1165,938692	Non-Empty	818,9664945	377,9422492	0	0	TRUE	381,0932536	0	382,1806338	403,4407417	0	0	TRUE	34,6%	396,4191554	0	0	TRUE	34,0%
2772	1	1052,752058	Empty	501,9338831	358,0813616	133,4877514	0,126798851	FALSE	379,2111138	0,138168529	379,2111138	314,8288532	176,7402598	0,167884032	FALSE	29,9%	308,381916	183,187197	0,174007921	FALSE	29,3%
2772	2	1052,752058	Empty	545,1361623	372,3204167	133,4877514	0,126798851	FALSE	364,4869449	0,138168529	364,4869449	341,9266931	176,7402598	0,167884032	FALSE	32,5%	404,0866485	183,187197	0,174007921	FALSE	38,4%
2772	3	1052,752058	Empty	500,6288337	322,3502797	133,4877514	0,126798851	FALSE	309,0539994	0,138168529	309,0539994	395,9965118	176,7402598	0,167884032	FALSE	37,6%	340,2834935	183,187197	0,174007921	FALSE	32,3%
2773	1	1630,920724	Empty	865,5391057	634,3041826	235,7542606	0,144552863	FALSE	630,0338769	0,045870068	630,0338769	572,113658	289,1765215	0,177308754	FALSE	35,1%	476,4487508	384,8414288	0,235965748	FALSE	29,2%
2773	2	1630,920724	Empty	715,2450006	488,052731	235,7542606	0,144552863	FALSE	487,8250787	0,045870068	487,8250787	472,7705901	289,1765215	0,177308754	FALSE	29,0%	476,4487508	384,8414288	0,235965748	FALSE	29,2%
2773	3	1630,920724	Empty	731,0304697	508,5638102	235,7542606	0,144552863	FALSE	513,0617681	0,045870068	513,0617681	586,0364757	289,1765215	0,177308754	FALSE	35,9%	678,0232222	384,8414288	0,235965748	FALSE	41,6%
2774	1	798,2714516	Non-Empty	653,4025926	304,8286205	0	0	TRUE	323,0060404	0	310,0057602	292,3345682	0	0	TRUE	36,6%	289,4830539	0	0	TRUE	36,3%
2774	2	798,2714516	Non-Empty	464,4487343	206,2614258	0	0	TRUE	242,8255092	0	220,3569202	207,7959619	0	0	TRUE	26,0%	254,3941989	0	0	TRUE	31,9%
2774	3	798,2714516	Non-Empty	564,6743004	251,1814053	0	0	TRUE	232,439902	0	267,9087713	298,1409215	0	0	TRUE	37,3%	254,3941989	0	0	TRUE	31,9%
2775	1	1024,579546	Non-Empty	719,5040618	330,9016193	0	0	TRUE	336,8527286	0	333,8355784	341,7614005	0	0	TRUE	33,4%	371,4100854	0	0	TRUE	36,3%
2775	2	1024,579546	Non-Empty	692,8298361	297,947624	0	0	TRUE	297,6189637	0	321,4592681	329,0912556	0	0	TRUE	32,1%	281,7593751	0	0	TRUE	27,5%
2775	3	1024,579546	Non-Empty	795,9063033	395,7303025	0	0	TRUE	390,1078536	0	369,2846993	353,7268898	0	0	TRUE	34,5%	371,4100854	0	0	TRUE	36,3%
2776	1	983,3447525	Non-Empty	756,7742716	342,7621828	0	0	TRUE	353,7086355	0	329,5382578	324,1334234	0	0	TRUE	33,0%	319,5870446	0	0	TRUE	32,5%
2776	2	983,3447525	Non-Empty	720,8989908	296,8800719	0	0	TRUE	297,8196945	0	313,916324	308,7677086	0	0	TRUE	31,4%	295,0034257	0	0	TRUE	30,0%
2776	3	983,3447525	Non-Empty	780,5471147	343,7024978	0	0	TRUE	331,8164224	0	339,8901706	350,4436205	0	0	TRUE	35,6%	368,7542822	0	0	TRUE	37,5%
2777	1	1246,044647	Empty	641,0488855	417,1330556	133,4793334	0,107122432	FALSE	412,0179392	0,035817961	412,0179392	409,5235948	129,5229563	0,103947284	FALSE	32,9%	455,5432042	157,7931538	0,12663523		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2791	1	958,5709479	Non-Empty	753,1073142	315,4643281	0	0	TRUE	303,132611	0	323,0723902	318,2682414	0	0	TRUE	33,2%	312,577483	0	0	TRUE	32,6%
2791	2	958,5709479	Non-Empty	731,8119286	308,4346001	0	0	TRUE	310,3685406	0	313,9369709	309,2686675	0	0	TRUE	32,3%	333,4159819	0	0	TRUE	34,8%
2791	3	958,5709479	Non-Empty	749,5855119	334,6720196	0	0	TRUE	345,0697962	0	321,5615868	331,0340389	0	0	TRUE	34,5%	312,577483	0	0	TRUE	32,6%
2792	1	1098,722221	Empty	530,7597229	349,5203723	104,6563903	0,09525282	FALSE	364,3065441	0,086330085	364,3065441	324,6103389	129,5664237	0,117924641	FALSE	29,5%	389,1307868	118,2747784	0,107647571	FALSE	35,4%
2792	2	1098,722221	Empty	619,5333802	397,631556	104,6563903	0,09525282	FALSE	371,7552541	0,086330085	371,7552541	378,9039218	129,5664237	0,117924641	FALSE	34,5%	343,3506942	118,2747784	0,107647571	FALSE	31,3%
2792	3	1098,722221	Empty	536,5056854	351,5702931	104,6563903	0,09525282	FALSE	362,6604232	0,086330085	362,6604232	395,2079607	129,5664237	0,117924641	FALSE	36,0%	366,2407405	118,2747784	0,107647571	FALSE	33,3%
2793	1	1198,55102	Non-Empty	870,9305253	403,7103453	0	0	TRUE	413,7937722	0	396,8332304	385,544549	0	0	TRUE	32,2%	403,4726207	0	0	TRUE	33,7%
2793	2	1198,55102	Non-Empty	901,9484926	409,8853409	0	0	TRUE	395,125796	0	410,9663441	399,2756192	0	0	TRUE	33,3%	391,6057789	0	0	TRUE	32,7%
2793	3	1198,55102	Non-Empty	857,5828229	384,9553341	0	0	TRUE	389,6314521	0	390,7514458	413,7308521	0	0	TRUE	34,5%	403,4726207	0	0	TRUE	33,7%
2794	1	703,3694919	Non-Empty	537,9459557	245,6807276	0	0	TRUE	241,1436359	0	241,533198	229,771757	0	0	TRUE	32,7%	246,1793222	0	0	TRUE	35,0%
2794	2	703,3694919	Non-Empty	535,1586994	238,5910572	0	0	TRUE	229,7515514	0	240,2817434	228,5812419	0	0	TRUE	32,5%	254,9714408	0	0	TRUE	36,3%
2794	3	703,3694919	Non-Empty	493,4492459	219,0977071	0	0	TRUE	232,4743046	0	221,5545505	245,0164931	0	0	TRUE	34,8%	202,2187289	0	0	TRUE	28,8%
2795	1	932,2075164	Non-Empty	675,9464912	291,0759237	0	0	TRUE	268,6350403	0	312,0195446	277,3108334	0	0	TRUE	29,7%	310,7358388	0	0	TRUE	33,3%
2795	2	932,2075164	Non-Empty	719,5064913	374,2937206	0	0	TRUE	391,510634	0	332,1270111	295,1815674	0	0	TRUE	31,7%	302,1042877	0	0	TRUE	32,4%
2795	3	932,2075164	Non-Empty	624,0435863	266,8378721	0	0	TRUE	272,0618421	0	288,0609607	359,7151156	0	0	TRUE	38,6%	319,3673899	0	0	TRUE	34,3%
2796	1	896,1567472	Non-Empty	677,5068381	334,7598106	0	0	TRUE	349,5267591	0	308,4028713	297,3631435	0	0	TRUE	33,2%	310,5493678	0	0	TRUE	34,7%
2796	2	896,1567472	Non-Empty	661,4773923	246,8057108	0	0	TRUE	189,6480054	0	301,1062259	290,3276921	0	0	TRUE	32,4%	266,1851724	0	0	TRUE	29,7%
2796	3	896,1567472	Non-Empty	629,7144451	314,5912259	0	0	TRUE	356,9819827	0	286,6476499	308,4659115	0	0	TRUE	34,4%	319,4222069	0	0	TRUE	35,6%
2797	1	990,089738	Non-Empty	789,9409577	349,0771148	0	0	TRUE	329,1161548	0	347,1737376	340,1780447	0	0	TRUE	34,4%	330,0299127	0	0	TRUE	33,3%
2797	2	990,089738	Non-Empty	680,5772618	297,6391132	0	0	TRUE	335,6038474	0	299,1091289	293,0819575	0	0	TRUE	29,6%	363,0329039	0	0	TRUE	36,7%
2797	3	990,089738	Non-Empty	782,2801668	343,3735099	0	0	TRUE	325,3697357	0	343,8068715	356,8297357	0	0	TRUE	36,0%	297,0269214	0	0	TRUE	30,0%
2798	1	1175,674574	Empty	527,4928012	347,3552458	160,238691	0,136295106	FALSE	348,2456007	0,058454237	348,2456007	344,1650855	200,2864153	0,17035872	FALSE	29,3%	374,6655236	237,4085872	0,20193393	FALSE	31,9%
2798	2	1175,674574	Empty	631,1362023	451,8354199	160,238691	0,136295106	FALSE	453,5625479	0,058454237	453,5625479	411,7876955	200,2864153	0,17035872	FALSE	35,0%	374,6655236	237,4085872	0,20193393	FALSE	31,9%
2798	3	1175,674574	Empty	560,1293019	376,4839085	160,238691	0,136295106	FALSE	373,8664256	0,058454237	373,8664256	419,7217931	200,2864153	0,17035872	FALSE	35,7%	426,3435269	237,4085872	0,20193393	FALSE	36,3%
2799	1	783,221377	Non-Empty	567,034834	252,3002129	0	0	TRUE	255,5923702	0	255,6342403	245,443518	0	0	TRUE	31,3%	223,7775363	0	0	TRUE	28,6%
2799	2	783,221377	Non-Empty	599,7972831	282,4022958	0	0	TRUE	283,0340871	0	270,4044154	259,6248879	0	0	TRUE	33,1%	325,4945982	0	0	TRUE	41,6%
2799	3	783,221377	Non-Empty	570,4695955	248,5188684	0	0	TRUE	244,5949197	0	257,1827213	278,1529711	0	0	TRUE	35,5%	233,9492425	0	0	TRUE	29,9%
2800	1	1266,521143	Empty	595,2404757	410,6500701	166,8010618	0,131700179	FALSE	417,6459756	0,033986442	417,6459756	403,8938503	173,5572816	0,13703465	FALSE	31,9%	379,956343	197,4947889	0,155934853	FALSE	30,0%
2800	2	1266,521143	Empty	597,5518231	410,936965	166,8010618	0,131700179	FALSE	415,9084179	0,033986442	415,9084179	405,4621896	173,5572816	0,13703465	FALSE	32,0%	468,612823	197,4947889	0,155934853	FALSE	37,0%
2800	3	1266,521143	Empty	648,4877779	444,9341083	166,8010618	0,131700179	FALSE	432,9667498	0,033986442	432,9667498	457,1651034	173,5572816	0,13703465	FALSE	36,1%	417,9519773	197,4947889	0,155934853	FALSE	33,0%
2801	1	1038,316036	Non-Empty	859,5463706	407,8061793	0	0	TRUE	402,0778396	0	375,5676491	356,1151596	0	0	TRUE	34,3%	342,30199	0	0	TRUE	33,0%
2801	2	1038,316036	Non-Empty	774,2261265	323,612604	0	0	TRUE	319,0109331	0	338,288074	320,7664764	0	0	TRUE	30,9%	387,9422554	0	0	TRUE	37,4%
2801	3	1038,316036	Non-Empty	742,5790942	306,8972532	0	0	TRUE	317,22272638	0	324,4603133	361,4344003	0	0	TRUE	34,8%	308,071791	0	0	TRUE	29,7%
2802	1	908,8576778	Non-Empty	688,2893576	345,9874124	0	0	TRUE	324,9772944	0	334,0342771	312,1991038	0	0	TRUE	34,4%	241,7174675	0	0	TRUE	26,6%
2802	2	908,8576778	Non-Empty	609,080136	290,318388	0	0	TRUE	292,8484673	0	295,5931843	276,2708307	0	0	TRUE	30,4%	348,0731532	0	0	TRUE	38,3%
2802	3	908,8576778	Non-Empty	575,3636659	272,5518774	0	0	TRUE	291,0319161	0	279,2302163	320,3877432	0	0	TRUE	35,3%	319,0670571	0	0	TRUE	35,1%
2803	1	915,9535597	Non-Empty	663,4085104	312,3373311	0	0	TRUE	302,9718783	0	313,0495836	294,3817989	0	0	TRUE	32,1%	327,1262713	0	0	TRUE	35,7%
2803	2	915,9535597	Non-Empty	683,0553128	324,3391553	0	0	TRUE	307,3287244	0	322,3205278	303,0998978	0	0	TRUE	33,1%	348,9346894	0	0	TRUE	38,1%
2803	3	915,9535597	Non-Empty	594,6069162	279,2770733	0	0	TRUE	305,652957	0	280,5834483	318,4718631	0	0	TRUE	34,8%	239,892599	0	0	TRUE	26,2%
2804	1	1613,976344	Empty	881,6547462	587,0103137	219,7454256	0,136151578	FALSE	570,5362713	0,106364625	570,5362713	562,8638294	243,4414778	0,150833362	FALSE	34,9%	537,9921145	214,4100427	0,13284584	FALSE	33,3%
2804	2	1613,976344	Empty	730,0876324	489,7967819	219,7454256	0,136151578	FALSE	527,6763216	0,106364625	527,6763216	466,1007297	243,4414778	0,150833362	FALSE	28,9%	500,8892101	214,4100427	0,13284584	FALSE	31,0%
2804	3	1613,976344	Empty	836,7451355	537,1692481	219,7454256	0,136151578	FALSE	515,7637508	0,106364625	515,7637508	585,0117846	243,4414778	0,150833362	FALSE	36,2%	575,095019	214,4100427	0,13284584	FALSE	35,6%
2805	1	1181,64701	Non-Empty	793,3922461	391,5134068	0	0	TRUE	404,804093	0	386,2585409	383,4095873	0	0	TRUE	32,4%	377,6397662	0	0	TRUE	32,0%
2805	2	1181,64701	Non-Empty	802,7533977	371,2992497	0	0	TRUE	355,0146272	0	390,8159648	387,9333967	0	0	TRUE	32,8%	414,1855501	0	0	TRUE	35,1%
2805	3	1181,64701	Non-Empty	831,0099434	418,834354	0	0	TRUE	421,8282903	0	404,5725047	410,3040265	0	0	TRUE	34,7%	389,8216942	0	0	TRUE	33,0%
2806	1	987,5995927	Non-Empty	645,2920593	324,5293905	0	0	TRUE	318,2993324	0	329,9974237	301,3831913	0	0	TRUE	30,5%	229,6743239	12,53479539	0,012692184	FALSE	23,3%
2806	2	987,5995927	Non-Empty	701,7793496	380,1684693	0	0	TRUE	373,0901997	0	358,884592	327,7655395	0	0	TRUE	33,2%	367,4789182	12,53479539	0,012692184	FALSE	37,2%
2806	3	987,5995927	Non-Empty	584,1260159	282,9017329	0	0	TRUE	296,2100606	0	298,7175769	358,4508619	0	0	TRUE	36,3%	390,4463506	12,53479539	0,012692184	FALSE	39,5%
2807	1	1353,3494	Empty	617,7174603	456,6612983	238,9683325	0,176575489	FALSE	470,9688511	0,066655225	470,9688511	423,5779147	272,0517161	0,201021049	FALSE	31,3%	501,80371	272,0205908	0,20099805	FALSE	37,1%
2807	2	1353,3494	Empty	651,681466	467,1221171	238,9683325	0,176575489	FALSE	457,9264829	0,066655225	457,9264829	446,8675311	272,0517161	0,201021049	FALSE	33,0%	410,5666718	272,0205908	0,20099805	FALSE	30,3%
2807	3	1353,3494	Empty	610,0416175	429,5659843	238,9683325	0,176575489	FALSE	424,4540657	0,066655225	424,4540657	482,9039539	272,0517161	0,201021049	FALSE	35,7%	440,9790179	272,0205908	0,20099805	FALSE	32,6%
2808	1	1032,449366																			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2822	1	1115,564883	Empty	505,3602476	328,4792104	131,9195956	0,118253629	FALSE	334,8150868	0,055627478	334,8150868	332,1299125	150,9172963	0,135283298	FALSE	29,8%	386,5818902	158,8799193	0,142421048	FALSE	34,7%
2822	2	1115,564883	Empty	577,7704403	399,8030103	131,9195956	0,118253629	FALSE	405,0524937	0,055627478	405,0524937	379,7189167	150,9172963	0,135283298	FALSE	34,0%	386,5818902	158,8799193	0,142421048	FALSE	34,7%
2822	3	1115,564883	Empty	582,0849358	387,2826625	131,9195956	0,118253629	FALSE	375,6973028	0,055627478	375,6973028	403,7160541	150,9172963	0,135283298	FALSE	36,2%	342,4011028	158,8799193	0,142421048	FALSE	30,7%
2823	1	1434,008048	Empty	747,0670963	546,0150861	237,6843994	0,165748302	FALSE	534,2657141	0,016426135	534,2657141	507,1966479	255,7398155	0,178339177	FALSE	35,4%	472,5708339	288,9225798	0,20147905	FALSE	33,0%
2823	2	1434,008048	Empty	613,2415403	434,3956018	237,6843994	0,165748302	FALSE	444,8523015	0,016426135	444,8523015	416,3401856	255,7398155	0,178339177	FALSE	29,0%	521,4574719	288,9225798	0,20147905	FALSE	36,4%
2823	3	1434,008048	Empty	641,6073258	453,5973599	237,6843994	0,165748302	FALSE	454,8900322	0,016426135	454,8900322	510,4712143	255,7398155	0,178339177	FALSE	35,0%	439,9797419	288,9225798	0,20147905	FALSE	30,7%
2824	1	998,9634074	Empty	505,3244566	324,9762919	107,5073897	0,107618947	FALSE	324,5349497	0,019905674	324,5349497	336,5563836	125,1486834	0,125278546	FALSE	33,7%	255,5487786	170,7305652	0,170907727	FALSE	25,6%
2824	2	998,9634074	Empty	470,0824956	295,9386686	107,5073897	0,107618947	FALSE	301,7016642	0,019905674	301,7016642	313,0845195	125,1486834	0,125278546	FALSE	31,3%	325,2439001	170,7305652	0,170907727	FALSE	32,6%
2824	3	998,9634074	Empty	563,2769228	378,0484469	107,5073897	0,107618947	FALSE	372,7267936	0,019905674	372,7267936	349,3225043	125,1486834	0,125278546	FALSE	35,0%	418,1707287	170,7305652	0,170907727	FALSE	41,9%
2825	1	949,437508	Empty	479,9934984	332,5770031	114,7031756	0,120811717	FALSE	328,2807458	0,141778919	328,2807458	303,3878179	154,8197772	0,163064737	FALSE	32,0%	373,3743009	128,9411029	0,135807888	FALSE	39,3%
2825	2	949,437508	Empty	448,5107133	323,6052052	114,7031756	0,120811717	FALSE	341,8199351	0,141778919	341,8199351	283,4886036	154,8197772	0,163064737	FALSE	29,9%	309,3672779	128,9411029	0,135807888	FALSE	32,6%
2825	3	949,437508	Empty	450,2940101	293,2552997	114,7031756	0,120811717	FALSE	279,3368272	0,141778919	279,3368272	362,5610866	154,8197772	0,163064737	FALSE	38,2%	266,6959292	128,9411029	0,135807888	FALSE	28,1%
2826	1	990,3377472	Non-Empty	834,7996711	341,3214483	0	0	TRUE	336,9285309	0	336,3996408	322,1359515	0	0	TRUE	32,5%	361,3394483	0	0	TRUE	36,5%
2826	2	990,3377472	Non-Empty	839,6688442	349,8154667	0	0	TRUE	349,0473946	0	338,3617739	324,0148882	0	0	TRUE	32,7%	294,4247357	0	0	TRUE	29,7%
2826	3	990,3377472	Non-Empty	783,1251481	299,2008322	0	0	TRUE	304,3618218	0	315,5763325	344,1869075	0	0	TRUE	34,8%	334,5735633	0	0	TRUE	33,8%
2827	1	901,4002016	Non-Empty	648,5352328	292,5637908	0	0	TRUE	272,085616	0	306,408049	296,1278651	0	0	TRUE	32,9%	244,945707	0	0	TRUE	27,2%
2827	2	901,4002016	Non-Empty	639,2455572	298,9955052	0	0	TRUE	294,2387205	0	302,0190332	291,8861035	0	0	TRUE	32,4%	333,1261615	0	0	TRUE	37,0%
2827	3	901,4002016	Non-Empty	620,0992134	309,8409056	0	0	TRUE	335,0758651	0	292,9731194	313,386233	0	0	TRUE	34,8%	323,3283332	0	0	TRUE	35,9%
2828	1	684,444414	Non-Empty	473,0443277	122,8674242	0	0	TRUE	208,5939747	0	222,960818	229,9981845	0	0	TRUE	33,6%	217,0189605	0	0	TRUE	31,7%
2828	2	684,444414	Non-Empty	424,6141788	185,2034391	0	0	TRUE	201,6961535	0	200,1334896	206,4510333	0	0	TRUE	30,2%	250,4064929	0	0	TRUE	36,6%
2828	3	684,444414	Non-Empty	554,4962697	286,3735507	0	0	TRUE	274,1542858	0	261,3508426	247,9951962	0	0	TRUE	36,2%	217,0189605	0	0	TRUE	31,7%
2829	1	1128,041236	Non-Empty	768,1970598	356,8749545	0	0	TRUE	366,3314738	0	362,519352	354,1449115	0	0	TRUE	31,4%	387,7641749	0	0	TRUE	34,4%
2829	2	1128,041236	Non-Empty	835,0051173	386,7741373	0	0	TRUE	359,321782	0	394,0466969	384,9439536	0	0	TRUE	34,1%	352,5128863	0	0	TRUE	31,3%
2829	3	1128,041236	Non-Empty	787,1749329	384,3921442	0	0	TRUE	402,3879802	0	371,4751871	388,9523709	0	0	TRUE	34,5%	387,7641749	0	0	TRUE	34,4%
2830	1	735,7870611	Non-Empty	466,3324378	224,1410173	0	0	TRUE	232,9769352	0	230,4577208	208,9362267	0	0	TRUE	28,4%	243,1296376	0	0	TRUE	33,0%
2830	2	735,7870611	Non-Empty	534,173442	268,8794376	0	0	TRUE	254,6127716	0	263,9841966	239,3318035	0	0	TRUE	32,5%	249,5277859	0	0	TRUE	33,9%
2830	3	735,7870611	Non-Empty	488,3631967	242,7666063	0	0	TRUE	248,1973543	0	241,3451437	287,5190308	0	0	TRUE	39,1%	243,1296376	0	0	TRUE	33,0%
2831	1	699,2037644	Non-Empty	471,3379859	182,6936454	0	0	TRUE	147,6735616	0	225,7150816	215,4647693	0	0	TRUE	30,8%	198,7932271	0	0	TRUE	28,4%
2831	2	699,2037644	Non-Empty	508,7658151	262,6110411	0	0	TRUE	270,0805238	0	243,6385797	232,5743145	0	0	TRUE	33,3%	239,9228603	0	0	TRUE	34,3%
2831	3	699,2037644	Non-Empty	479,9727336	253,8990779	0	0	TRUE	281,4496789	0	229,8501032	251,1646806	0	0	TRUE	35,9%	260,4876769	0	0	TRUE	37,3%
2832	1	803,3833159	Non-Empty	694,7838555	308,348229	0	0	TRUE	289,8188476	0	292,3954313	281,9888452	0	0	TRUE	35,1%	229,5380903	0	0	TRUE	28,6%
2832	2	803,3833159	Non-Empty	578,4441432	232,5820417	0	0	TRUE	255,2529974	0	243,4345925	234,7705616	0	0	TRUE	29,2%	281,705838	0	0	TRUE	35,1%
2832	3	803,3833159	Non-Empty	635,7544887	262,7664512	0	0	TRUE	258,311471	0	267,5532922	286,6239091	0	0	TRUE	35,7%	292,1393876	0	0	TRUE	36,4%
2833	1	1173,41409	Empty	514,554449	342,4914312	143,7852232	0,122535791	FALSE	348,8069882	0,055079447	348,8069882	378,9208309	207,6989867	0,177003999	FALSE	32,3%	421,5176829	275,485468	0,234772592	FALSE	35,9%
2833	2	1173,41409	Empty	522,7223011	344,5819662	143,7852232	0,122535791	FALSE	344,820206	0,055079447	344,820206	384,9356838	207,6989867	0,177003999	FALSE	32,8%	410,1253131	275,485468	0,234772592	FALSE	35,0%
2833	3	1173,41409	Empty	671,2730645	486,3406929	143,7852232	0,122535791	FALSE	479,7868961	0,055079447	479,7868961	409,5575756	207,6989867	0,177003999	FALSE	34,9%	341,7710943	275,485468	0,234772592	FALSE	29,1%
2834	1	735,4325252	Non-Empty	568,1726442	267,5925175	0	0	TRUE	245,4904014	0	266,0013612	258,460687	0	0	TRUE	35,1%	213,7885248	0	0	TRUE	29,1%
2834	2	735,4325252	Non-Empty	462,5678621	121,2781556	0	0	TRUE	238,4664598	0	216,5603751	210,4212666	0	0	TRUE	28,6%	265,0977707	0	0	TRUE	36,0%
2834	3	735,4325252	Non-Empty	540,1260508	256,5618521	0	0	TRUE	251,475664	0	252,8707888	266,5505716	0	0	TRUE	36,2%	256,5462297	0	0	TRUE	34,9%
2835	1	810,845005	Non-Empty	636,9166931	287,1452967	0	0	TRUE	297,3239449	0	273,1485941	267,6750485	0	0	TRUE	33,0%	297,8614304	0	0	TRUE	36,7%
2835	2	810,845005	Non-Empty	602,3981162	237,1417218	0	0	TRUE	231,8353721	0	258,3449301	253,1680308	0	0	TRUE	31,2%	256,4917873	0	0	TRUE	31,6%
2835	3	810,845005	Non-Empty	651,3803298	286,5579865	0	0	TRUE	281,6856879	0	279,3514807	290,0019256	0	0	TRUE	35,8%	256,4917873	0	0	TRUE	31,6%
2836	1	984,7101019	Non-Empty	678,5052279	320,9849961	0	0	TRUE	323,290872	0	323,6773077	306,5655675	0	0	TRUE	31,1%	391,359143	0	0	TRUE	39,7%
2836	2	984,7101019	Non-Empty	734,3387338	363,4023877	0	0	TRUE	352,2921492	0	350,3123846	331,7925366	0	0	TRUE	33,7%	277,7387467	0	0	TRUE	28,2%
2836	3	984,7101019	Non-Empty	651,3444633	300,3227181	0	0	TRUE	309,1270807	0	310,7204095	346,3519978	0	0	TRUE	35,2%	315,6122121	0	0	TRUE	32,1%
2837	1	1260,51785	Empty	645,9415102	415,2323349	182,018964	0,144400148	FALSE	392,4673612	0,190171668	392,4673612	418,7458422	187,2310165	0,148534998	FALSE	33,2%	415,0485603	163,5661712	0,129761091	FALSE	32,9%
2837	2	1260,51785	Empty	647,3269049	417,9454097	182,018964	0,144400148	FALSE	396,5081159	0,190171668	396,5081159	419,6439549	187,2310165	0,148534998	FALSE	33,3%	399,6763914	163,5661712	0,129761091	FALSE	31,7%
2837	3	1260,51785	Empty	591,0820393	427,3401053	182,018964	0,144400148	FALSE	471,5423728	0,190171668	471,5423728	422,1280529	187,2310165	0,148534998	FALSE	33,5%	445,7928981	163,5661712	0,129761091	FALSE	35,4%
2838	1	1021,014721	Empty	529,5046465	335,6136443	102,5537477	0,100442967	FALSE	324,6955544	0,07986664	324,6955544	322,0298421	140,4504933	0,137559714	FALSE	31,5%	374,3720645	175,6036413	0,171989333	FALSE	36,7%
2838	2	1021,014721	Empty	542,7954849	368,009702	102,5537477	0,100442967	FALSE	376,1968313	0,07986664	376,1968313	330,1129564	140,4504933	0,137559714	FALSE	32,3%	294,9598084</				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2853	1	852,9322203	Non-Empty	607,2810995	290,8280366	0	0	TRUE	282,6549007	0	291,358856	281,3548815	0	0	TRUE	33,0%	237,4141232	0	0	TRUE	27,8%
2853	2	852,9322203	Non-Empty	598,0295311	289,8652052	0	0	TRUE	289,9808061	0	286,9201762	277,0686064	0	0	TRUE	32,5%	263,7934702	0	0	TRUE	30,9%
2853	3	852,9322203	Non-Empty	572,4613704	272,2389785	0	0	TRUE	280,2965135	0	274,6531881	294,5087324	0	0	TRUE	34,5%	351,7246269	0	0	TRUE	41,2%
2854	1	1134,032758	Empty	609,4050351	385,4178245	114,8625768	0,101286824	FALSE	373,2958021	0,043859375	373,2958021	384,4731507	118,1466257	0,104182727	FALSE	33,9%	290,1014033	188,0144017	0,165792743	FALSE	25,6%
2854	2	1134,032758	Empty	555,6928206	353,8702063	114,8625768	0,101286824	FALSE	363,9127802	0,043859375	363,9127802	350,5861574	118,1466257	0,104182727	FALSE	30,9%	369,2199679	188,0144017	0,165792743	FALSE	32,6%
2854	3	1134,032758	Empty	604,5304671	394,7447275	114,8625768	0,101286824	FALSE	396,8241762	0,043859375	396,8241762	398,9734504	118,1466257	0,104182727	FALSE	35,2%	474,7113872	188,0144017	0,165792743	FALSE	41,9%
2855	1	728,5157905	Non-Empty	463,8623168	221,9585583	0	0	TRUE	228,6339341	0	229,2218351	225,5226787	0	0	TRUE	31,0%	258,2081283	0	0	TRUE	35,4%
2855	2	728,5157905	Non-Empty	513,7486532	254,3612954	0	0	TRUE	243,5530721	0	253,8736275	249,7766433	0	0	TRUE	34,3%	202,8778151	0	0	TRUE	27,8%
2855	3	728,5157905	Non-Empty	496,6422238	252,1959368	0	0	TRUE	256,3287843	0	245,4203279	253,2164685	0	0	TRUE	34,8%	267,4298472	0	0	TRUE	36,7%
2856	1	1472,41651	Empty	791,7724975	519,245312	202,8372489	0,137758065	FALSE	500,5932789	0,072983031	500,5932789	502,3006479	186,8665467	0,126911472	FALSE	34,1%	501,9601738	193,3784129	0,131334043	FALSE	34,1%
2856	2	1472,41651	Empty	735,3759522	477,4018658	202,8372489	0,137758065	FALSE	473,3029318	0,072983031	473,3029318	466,522667	186,8665467	0,126911472	FALSE	31,7%	485,228168	193,3784129	0,131334043	FALSE	33,0%
2856	3	1472,41651	Empty	706,8935174	475,769332	202,8372489	0,137758065	FALSE	498,520299	0,072983031	498,520299	503,5931948	186,8665467	0,126911472	FALSE	34,2%	485,228168	193,3784129	0,131334043	FALSE	33,0%
2857	1	1086,183577	Non-Empty	788,3405444	347,8416672	0	0	TRUE	339,3153527	0	359,4652188	354,5818739	0	0	TRUE	32,6%	410,3360179	0	0	TRUE	37,8%
2857	2	1086,183577	Non-Empty	778,9200442	365,3666622	0	0	TRUE	383,785863	0	355,1696776	350,3446878	0	0	TRUE	32,3%	325,8550731	0	0	TRUE	30,0%
2857	3	1086,183577	Non-Empty	814,8407166	372,9752475	0	0	TRUE	363,0823611	0	371,5486805	381,2570152	0	0	TRUE	35,1%	349,9924859	0	0	TRUE	32,2%
2858	1	984,2075276	Non-Empty	763,3580161	400,4738117	0	0	TRUE	392,3718527	0	366,7477689	348,6856473	0	0	TRUE	35,4%	367,8351366	0	0	TRUE	37,4%
2858	2	984,2075276	Non-Empty	622,3595516	283,0643782	0	0	TRUE	298,5514504	0	299,0064585	284,2805584	0	0	TRUE	28,9%	318,1276857	0	0	TRUE	32,3%
2858	3	984,2075276	Non-Empty	662,8366962	300,6693376	0	0	TRUE	293,2842245	0	318,4533002	351,2413219	0	0	TRUE	35,7%	298,2447053	0	0	TRUE	30,3%
2859	1	1617,508429	Empty	918,1651783	553,9409548	178,0363404	0,110068261	FALSE	536,0314324	0,072835363	536,0314324	562,3266713	178,1277637	0,110124782	FALSE	34,8%	647,0033715	240,4441787	0,148650959	FALSE	40,0%
2859	2	1617,508429	Empty	802,5413884	491,6047568	178,0363404	0,110068261	FALSE	526,9828262	0,072835363	526,9828262	491,5133335	178,1277637	0,110124782	FALSE	30,4%	513,796795	240,4441787	0,148650959	FALSE	31,8%
2859	3	1617,508429	Empty	935,7459653	571,9627171	178,0363404	0,110068261	FALSE	554,49417	0,072835363	554,49417	563,6684239	178,1277637	0,110124782	FALSE	34,8%	456,7082622	240,4441787	0,148650959	FALSE	28,2%
2860	1	640,0812687	Non-Empty	411,6146218	148,6953825	0	0	TRUE	153,6710225	0	182,4858227	180,0294361	0	0	TRUE	28,1%	205,3090862	0	0	TRUE	32,1%
2860	2	640,0812687	Non-Empty	519,5871807	249,0621277	0	0	TRUE	246,431954	0	230,3545334	227,2538006	0	0	TRUE	35,5%	217,3860913	0	0	TRUE	34,0%
2860	3	640,0812687	Non-Empty	512,5641043	242,3237586	0	0	TRUE	239,9782922	0	227,2409126	232,798032	0	0	TRUE	36,4%	217,3860913	0	0	TRUE	34,0%
2861	1	1302,278901	Empty	592,8800363	402,6951257	176,2302101	0,135324476	FALSE	422,4202306	0,05647783	422,4202306	400,2002141	178,7251216	0,137240281	FALSE	30,7%	482,8674575	200,1219783	0,153670599	FALSE	37,1%
2861	2	1302,278901	Empty	646,4191739	430,2835293	176,2302101	0,135324476	FALSE	424,0579003	0,05647783	424,0579003	436,3396909	178,7251216	0,137240281	FALSE	33,5%	380,4410271	200,1219783	0,153670599	FALSE	29,2%
2861	3	1302,278901	Empty	692,7097371	469,3002456	176,2302101	0,135324476	FALSE	455,8007697	0,05647783	455,8007697	465,7389956	178,7251216	0,137240281	FALSE	35,8%	438,9704159	200,1219783	0,153670599	FALSE	33,7%
2862	1	1293,901949	Empty	637,37078	416,1290561	166,7363428	0,128863198	FALSE	407,2209855	0,062543589	407,2209855	397,8398913	213,7098183	0,165166934	FALSE	30,7%	406,2250304	213,2566278	0,164816683	FALSE	31,4%
2862	2	1293,901949	Empty	698,2861209	487,8830213	166,7363428	0,128863198	FALSE	489,8135751	0,062543589	489,8135751	435,8625829	213,7098183	0,165166934	FALSE	33,7%	436,3157734	213,2566278	0,164816683	FALSE	33,7%
2862	3	1293,901949	Empty	595,246008	389,8898714	166,7363428	0,128863198	FALSE	396,8673881	0,062543589	396,8673881	460,1994746	213,7098183	0,165166934	FALSE	35,6%	451,3611449	213,2566278	0,164816683	FALSE	34,9%
2863	1	789,154179	Non-Empty	645,477227	274,2681228	0	0	TRUE	275,4558937	0	267,2030002	254,3707513	0	0	TRUE	32,2%	269,0298337	0	0	TRUE	34,1%
2863	2	789,154179	Non-Empty	650,5480802	270,7449448	0	0	TRUE	263,3386845	0	269,3021404	256,3690817	0	0	TRUE	32,5%	340,7711227	0	0	TRUE	43,2%
2863	3	789,154179	Non-Empty	610,3194973	244,1411114	0	0	TRUE	250,3596008	0	252,6490384	278,414346	0	0	TRUE	35,3%	179,3532225	0	0	TRUE	22,7%
2864	1	996,540485	Non-Empty	742,6871073	333,0229036	0	0	TRUE	311,4163362	0	342,539854	332,6923571	0	0	TRUE	33,4%	348,7891697	0	0	TRUE	35,0%
2864	2	996,540485	Non-Empty	711,1310673	326,6353457	0	0	TRUE	330,1972603	0	327,9800555	318,5565882	0	0	TRUE	32,0%	338,8237649	0	0	TRUE	34,0%
2864	3	996,540485	Non-Empty	706,8952191	336,8822356	0	0	TRUE	354,9268884	0	326,0264441	345,2915397	0	0	TRUE	34,6%	308,9275503	0	0	TRUE	31,0%
2865	1	1011,927147	Empty	533,2897301	342,0805045	81,81719279	0,080852849	FALSE	368,2120582	0,125308212	368,2120582	308,8099641	115,0877332	0,113731244	FALSE	30,5%	333,9359584	89,96173894	0,088901399	FALSE	33,0%
2865	2	1011,927147	Empty	576,1123529	342,1795384	81,81719279	0,080852849	FALSE	325,5875032	0,125308212	325,5875032	333,6070901	115,0877332	0,113731244	FALSE	33,0%	303,578144	89,96173894	0,088901399	FALSE	30,0%
2865	3	1011,927147	Empty	554,5474013	327,6671036	81,81719279	0,080852849	FALSE	318,1275852	0,125308212	318,1275852	369,5100924	115,0877332	0,113731244	FALSE	36,5%	374,4130442	89,96173894	0,088901399	FALSE	37,0%
2866	1	803,7022066	Non-Empty	678,5849348	282,2579073	0	0	TRUE	264,3258889	0	281,2851619	269,2127152	0	0	TRUE	33,5%	225,4286677	0	0	TRUE	28,0%
2866	2	803,7022066	Non-Empty	666,0723789	270,9642579	0	0	TRUE	254,251146	0	276,0984916	264,2486511	0	0	TRUE	32,9%	323,4411319	0	0	TRUE	40,2%
2866	3	803,7022066	Non-Empty	594,2299202	250,4800414	0	0	TRUE	285,1251717	0	246,3185531	270,2408403	0	0	TRUE	33,6%	254,832407	0	0	TRUE	31,7%
2867	1	614,6114197	Non-Empty	427,2040355	188,4612089	0	0	TRUE	184,7269901	0	198,9671632	203,0733414	0	0	TRUE	33,0%	195,8651777	0	0	TRUE	31,9%
2867	2	614,6114197	Non-Empty	416,8030001	190,7262527	0	0	TRUE	199,658113	0	194,1229569	198,1291629	0	0	TRUE	32,2%	229,6350359	0	0	TRUE	37,4%
2867	3	614,6114197	Non-Empty	475,6302075	235,4239582	0	0	TRUE	230,2263166	0	221,5212996	213,4089154	0	0	TRUE	34,7%	189,1112061	0	0	TRUE	30,8%
2868	1	713,0768183	Non-Empty	524,0272346	219,3970148	0	0	TRUE	230,0565563	0	225,2464216	230,8054144	0	0	TRUE	32,4%	269,8128502	0	0	TRUE	37,8%
2868	2	713,0768183	Non-Empty	531,674638	212,8042259	0	0	TRUE	209,2235752	0	228,5335603	234,1736785	0	0	TRUE	32,8%	250,5405037	0	0	TRUE	35,1%
2868	3	713,0768183	Non-Empty	603,2442299	280,8755776	0	0	TRUE	273,7966867	0	259,2968364	248,0977253	0	0	TRUE	34,8%	192,7234644	0	0	TRUE	27,0%
2869	1	804,5497023	Non-Empty	611,1498492	224,5103423	0	0	TRUE	252,3387106	0	240,0935717	234,5221845	0	0	TRUE	29,1%	344,8070153	0	0	TRUE	42,9%
2869	2	804,5497023	Non-Empty	725,6302063	302,2962016	0	0	TRUE	293,4300721	0	285,0678081	278,4527908	0	0	TRUE	34,6%	208,9739486	0	0	TRUE	26,0%
2869	3	804,5497023	Non-Empty	711,1732726	277,7431584	0															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2884	1	1153,31851	Non-Empty	795,7081841	363,9151546	0	0	TRUE	360,8910923	0	376,1663463	371,3090918	0	0	TRUE	32,2%	380,2148934	0	0	TRUE	33,0%
2884	2	1153,31851	Non-Empty	808,0461185	393,5486205	0	0	TRUE	407,8200897	0	381,9990319	377,0664627	0	0	TRUE	32,7%	430,9102125	0	0	TRUE	37,4%
2884	3	1153,31851	Non-Empty	835,8711088	395,8547348	0	0	TRUE	384,6073279	0	395,1531318	404,9429554	0	0	TRUE	35,1%	342,1934041	0	0	TRUE	29,7%
2885	1	791,0771004	Non-Empty	642,6870593	286,4924929	0	0	TRUE	287,2643113	0	273,0512884	260,5573228	0	0	TRUE	32,9%	275,957128	0	0	TRUE	34,9%
2885	2	791,0771004	Non-Empty	617,3868838	258,2719027	0	0	TRUE	256,1233063	0	262,3022848	250,3001597	0	0	TRUE	31,6%	285,155699	0	0	TRUE	36,0%
2885	3	791,0771004	Non-Empty	601,9023116	246,3127048	0	0	TRUE	247,6894828	0	255,7235272	280,2196178	0	0	TRUE	35,4%	229,9642734	0	0	TRUE	29,1%
2886	1	1141,287515	Non-Empty	792,4688939	397,7435121	0	0	TRUE	389,4450459	0	393,1354135	375,192274	0	0	TRUE	32,9%	375,7897916	0	0	TRUE	32,9%
2886	2	1141,287515	Non-Empty	755,4274057	373,1586585	0	0	TRUE	377,3168269	0	374,759524	357,6550806	0	0	TRUE	31,3%	417,5442129	0	0	TRUE	36,6%
2886	3	1141,287515	Non-Empty	752,6719624	370,3853446	0	0	TRUE	374,5256425	0	373,3925778	408,4401606	0	0	TRUE	35,8%	347,9535107	0	0	TRUE	30,5%
2887	1	803,2434862	Non-Empty	643,7986837	267,6228855	0	0	TRUE	270,3928085	0	266,5492794	252,3601068	0	0	TRUE	31,4%	299,2475733	0	0	TRUE	37,3%
2887	2	803,2434862	Non-Empty	689,3111047	299,193874	0	0	TRUE	288,0223644	0	285,3925969	270,2003412	0	0	TRUE	33,6%	251,9979565	0	0	TRUE	31,4%
2887	3	803,2434862	Non-Empty	606,9708612	236,4267266	0	0	TRUE	244,8283132	0	251,3016099	280,6830381	0	0	TRUE	34,9%	251,9979565	0	0	TRUE	31,4%
2888	1	1179,25999	Non-Empty	832,0690315	400,4766645	0	0	TRUE	403,6046199	0	395,1105087	380,3669209	0	0	TRUE	32,3%	345,1492653	0	0	TRUE	29,3%
2888	2	1179,25999	Non-Empty	836,4626204	395,0063515	0	0	TRUE	388,2704049	0	397,1968178	382,3753791	0	0	TRUE	32,4%	503,3426786	0	0	TRUE	42,7%
2888	3	1179,25999	Non-Empty	814,889305	383,7769739	0	0	TRUE	387,3849651	0	386,9526634	416,5176898	0	0	TRUE	35,3%	330,7680459	0	0	TRUE	28,0%
2889	1	1099,257552	Empty	527,0000801	360,8205884	147,4076137	0,134097431	FALSE	383,7575414	0,110341087	383,7575414	341,7055632	166,5226388	0,151486463	FALSE	31,1%	312,1348603	196,0933418	0,178387077	FALSE	28,4%
2889	2	1099,257552	Empty	561,8921446	359,9707966	147,4076137	0,134097431	FALSE	347,1658933	0,110341087	347,1658933	364,3294925	166,5226388	0,151486463	FALSE	33,1%	352,848103	196,0933418	0,178387077	FALSE	32,1%
2889	3	1099,257552	Empty	577,7146609	378,4661665	147,4076137	0,134097431	FALSE	368,3341168	0,110341087	368,3341168	393,2224957	166,5226388	0,151486463	FALSE	35,8%	434,2745883	196,0933418	0,178387077	FALSE	39,5%
2890	1	1563,519911	Empty	751,6022412	491,8037052	223,934774	0,143224766	FALSE	497,4726989	0,021260349	497,4726989	482,3910396	244,4499538	0,156345917	FALSE	30,9%	479,8922498	235,8462294	0,150843125	FALSE	30,7%
2890	2	1563,519911	Empty	839,9783162	569,9036301	223,934774	0,143224766	FALSE	565,2964737	0,021260349	565,2964737	539,1123003	244,4499538	0,156345917	FALSE	34,5%	572,7746207	235,8462294	0,150843125	FALSE	36,6%
2890	3	1563,519911	Empty	768,3419422	501,8125752	223,934774	0,143224766	FALSE	500,7507379	0,021260349	500,7507379	542,0165707	244,4499538	0,156345917	FALSE	34,7%	510,8530401	235,8462294	0,150843125	FALSE	32,7%
2891	1	1059,851065	Empty	513,920862	333,3126827	115,0312451	0,108535292	FALSE	324,4609367	0,083824291	324,4609367	338,2961295	130,6454754	0,123267768	FALSE	31,9%	267,751848	158,3795924	0,149435706	FALSE	25,3%
2891	2	1059,851065	Empty	509,1955325	300,7998407	115,0312451	0,108535292	FALSE	364,1605821	0,083824291	364,1605821	335,1856104	130,6454754	0,123267768	FALSE	31,6%	401,627772	158,3795924	0,149435706	FALSE	37,9%
2891	3	1059,851065	Empty	552,0039704	375,7385416	115,0312451	0,108535292	FALSE	371,2295462	0,083824291	371,2295462	386,3693252	130,6454754	0,123267768	FALSE	36,5%	390,471445	158,3795924	0,149435706	FALSE	36,8%
2892	1	924,7416688	Non-Empty	777,8629198	382,0196712	0	0	TRUE	381,929107	0	340,5882335	318,0684331	0	0	TRUE	34,4%	396,3178581	0	0	TRUE	42,9%
2892	2	924,7416688	Non-Empty	681,4591581	280,3099148	0	0	TRUE	274,9133559	0	298,3777282	278,6488996	0	0	TRUE	30,1%	240,1926412	0	0	TRUE	26,0%
2892	3	924,7416688	Non-Empty	652,6776444	262,4120829	0	0	TRUE	267,8992059	0	285,7757071	328,0243361	0	0	TRUE	35,5%	288,2311695	0	0	TRUE	31,2%
2893	1	1058,036523	Non-Empty	726,8812376	400,9321236	0	0	TRUE	329,7123321	0	352,4233646	328,0488132	0	0	TRUE	31,0%	379,5131006	0	0	TRUE	35,9%
2893	2	1058,036523	Non-Empty	803,3409953	417,8347413	0	0	TRUE	407,0578098	0	389,4943518	362,5558709	0	0	TRUE	34,3%	368,0127036	0	0	TRUE	34,8%
2893	3	1058,036523	Non-Empty	652,0022574	299,2696579	0	0	TRUE	321,2663809	0	316,1188064	367,4318386	0	0	TRUE	34,7%	310,5107186	0	0	TRUE	29,3%
2894	1	968,6505418	Empty	471,1797252	317,606198	44,82794162	0,046278756	FALSE	337,339136	0,211755841	337,339136	300,0529907	62,38114898	0,064400056	FALSE	31,0%	339,0276896	39,03817167	0,040301605	FALSE	35,0%
2894	2	968,6505418	Empty	488,3880851	282,1813259	44,82794162	0,046278756	FALSE	249,2810319	0,211755841	249,2810319	311,0114839	62,38114898	0,064400056	FALSE	32,1%	261,5356463	39,03817167	0,040301605	FALSE	27,0%
2894	3	968,6505418	Empty	529,0021269	368,8630178	44,82794162	0,046278756	FALSE	382,0303739	0,211755841	382,0303739	357,5860672	62,38114898	0,064400056	FALSE	36,9%	368,0872059	39,03817167	0,040301605	FALSE	38,0%
2895	1	1234,67372	Empty	604,2508617	405,6361091	153,2102813	0,124089692	FALSE	405,1214746	0,044162033	405,1214746	407,8346257	165,1779259	0,133782653	FALSE	33,0%	470,9580168	227,0176165	0,183868509	FALSE	38,1%
2895	2	1234,67372	Empty	586,5241999	386,1010191	153,2102813	0,124089692	FALSE	383,7779563	0,044162033	383,7779563	395,8701471	165,1779259	0,133782653	FALSE	32,1%	394,5864465	227,0176165	0,183868509	FALSE	32,0%
2895	3	1234,67372	Empty	638,1990124	442,9365916	153,2102813	0,124089692	FALSE	445,7742889	0,044162033	445,7742889	430,968947	165,1779259	0,133782653	FALSE	34,9%	369,1292564	227,0176165	0,183868509	FALSE	29,9%
2896	1	1048,531582	Non-Empty	796,7245206	368,966133	0	0	TRUE	374,3739321	0	355,7836874	348,0477903	0	0	TRUE	33,2%	341,9124725	0	0	TRUE	32,6%
2896	2	1048,531582	Non-Empty	766,9748779	332,369823	0	0	TRUE	330,930955	0	342,4987472	335,051708	0	0	TRUE	32,0%	364,7066373	0	0	TRUE	34,8%
2896	3	1048,531582	Non-Empty	784,330744	347,1956262	0	0	TRUE	343,2266952	0	350,2491476	365,432084	0	0	TRUE	34,9%	341,9124725	0	0	TRUE	32,6%
2897	1	1058,59178	Non-Empty	698,1033712	347,9999312	0	0	TRUE	381,0021771	0	334,7087878	328,9990646	0	0	TRUE	31,1%	395,6353118	0	0	TRUE	37,4%
2897	2	1058,59178	Non-Empty	768,5209508	320,1702471	0	0	TRUE	254,9252292	0	368,4708117	362,1851496	0	0	TRUE	34,2%	288,7068492	0	0	TRUE	27,3%
2897	3	1058,59178	Non-Empty	741,2845157	390,421602	0	0	TRUE	422,6643741	0	355,4121809	367,407566	0	0	TRUE	34,7%	374,2496193	0	0	TRUE	35,4%
2898	1	834,4836039	Empty	428,3634239	308,1768158	76,8763352	0,092124441	FALSE	317,8245632	0,115153956	317,8245632	281,9063131	103,1468379	0,12360559	FALSE	33,8%	314,0529692	85,6678304	0,102659693	FALSE	37,6%
2898	2	834,4836039	Empty	351,054029	229,6120771	76,8763352	0,092124441	FALSE	238,0044807	0,115153956	238,0044807	231,0289383	103,1468379	0,12360559	FALSE	27,7%	260,2153173	85,6678304	0,102659693	FALSE	31,2%
2898	3	834,4836039	Empty	444,5692173	296,6947109	76,8763352	0,092124441	FALSE	278,6545599	0,115153956	278,6545599	321,5483524	103,1468379	0,12360559	FALSE	38,5%	260,2153173	85,6678304	0,102659693	FALSE	31,2%
2899	1	1053,8262	Non-Empty	786,0395415	370,0493493	0	0	TRUE	350,8083753	0	369,1273624	367,6567747	0	0	TRUE	34,9%	292,7295	0	0	TRUE	27,8%
2899	2	1053,8262	Non-Empty	678,3043793	311,0032234	0	0	TRUE	340,4512856	0	318,5344925	317,2654646	0	0	TRUE	30,1%	398,11212	0	0	TRUE	37,8%
2899	3	1053,8262	Non-Empty	779,7299336	372,7736272	0	0	TRUE	362,566539	0	366,1643449	368,9039606	0	0	TRUE	35,0%	362,98458	0	0	TRUE	34,4%
2900	1	1228,313637	Non-Empty	814,2661449	403,6754194	0	0	TRUE	414,0262898	0	401,4928275	386,3838998	0	0	TRUE	31,5%	368,494091	0	0	TRUE	30,0%
2900	2	1228,313637	Non-Empty	851,8986633	432,6853287	0	0	TRUE	434,4135901	0	420,0484144	404,2412052	0	0	TRUE	32,9%	417,6266365	0	0	TRUE	34,0%
2900	3	1228,313637	Non-Empty	824,9736163	391,9528887	0	0	TRUE	379,8737569												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2915	1	1051,153354	Non-Empty	814,3813388	351,9393978	0	0	TRUE	334,0415055	0	358,9587724	356,4229757	0	0	TRUE	33,9%	298,7488479	0	0	TRUE	28,4%
2915	2	1051,153354	Non-Empty	757,5145887	326,3882489	0	0	TRUE	339,8059579	0	333,8933419	331,5346153	0	0	TRUE	31,5%	398,3317972	0	0	TRUE	37,9%
2915	3	1051,153354	Non-Empty	812,8895727	372,8257071	0	0	TRUE	377,3058903	0	358,3012395	363,1957627	0	0	TRUE	34,6%	354,0727086	0	0	TRUE	33,7%
2916	1	896,8271199	Non-Empty	578,1073819	261,5316107	0	0	TRUE	266,0053135	0	278,7468796	272,7788039	0	0	TRUE	30,4%	302,3012764	0	0	TRUE	33,7%
2916	2	896,8271199	Non-Empty	645,6260868	316,5582963	0	0	TRUE	308,5399797	0	311,3024719	304,6373688	0	0	TRUE	34,0%	292,2245672	0	0	TRUE	32,6%
2916	3	896,8271199	Non-Empty	636,2420732	318,737213	0	0	TRUE	322,2818268	0	306,7777684	319,4109473	0	0	TRUE	35,6%	302,3012764	0	0	TRUE	33,7%
2917	1	907,5335663	Empty	398,1003312	260,1560485	153,8770974	0,169555268	FALSE	226,5239579	0,330021658	226,5239579	290,6920935	187,1392495	0,206206422	FALSE	32,0%	235,9587272	153,8931629	0,169572971	FALSE	26,0%
2917	2	907,5335663	Empty	389,4705742	317,6528137	153,8770974	0,169555268	FALSE	350,1472453	0,330021658	350,1472453	284,3906616	187,1392495	0,206206422	FALSE	31,3%	317,6367482	153,8931629	0,169572971	FALSE	35,0%
2917	3	907,5335663	Empty	432,899237	329,724704	153,8770974	0,169555268	FALSE	330,8623631	0,330021658	330,8623631	332,4508112	187,1392495	0,206206422	FALSE	36,6%	353,9380909	153,8931629	0,169572971	FALSE	39,0%
2918	1	726,0109768	Non-Empty	498,7976087	245,0700729	0	0	TRUE	254,1014823	0	239,1437982	229,5007869	0	0	TRUE	31,6%	266,5103586	0	0	TRUE	36,7%
2918	2	726,0109768	Non-Empty	502,2384223	238,2595045	0	0	TRUE	237,0395319	0	240,7934638	231,0839329	0	0	TRUE	31,8%	220,5602968	0	0	TRUE	30,4%
2918	3	726,0109768	Non-Empty	513,2517818	242,6813995	0	0	TRUE	234,8699626	0	246,0737149	265,4262571	0	0	TRUE	36,6%	238,9403215	0	0	TRUE	32,9%
2919	1	1223,865672	Empty	575,2447975	387,0394806	179,0853009	0,146327579	FALSE	390,1859578	0,067427385	390,1859578	373,2721419	216,4214635	0,176834328	FALSE	30,5%	476,6634721	270,4131096	0,220949991	FALSE	38,9%
2919	2	1223,865672	Empty	639,1040586	452,0461119	179,0853009	0,146327579	FALSE	456,3399592	0,067427385	456,3399592	414,7099494	216,4214635	0,176834328	FALSE	33,9%	360,7183032	270,4131096	0,220949991	FALSE	29,5%
2919	3	1223,865672	Empty	583,5721976	384,7800791	179,0853009	0,146327579	FALSE	377,3397546	0,067427385	377,3397546	435,8835804	216,4214635	0,176834328	FALSE	35,6%	386,4838963	270,4131096	0,220949991	FALSE	31,6%
2920	1	1135,523139	Empty	469,3473961	313,3948886	142,46138	0,125458808	FALSE	363,4679873	0,199220471	363,4679873	290,6836673	165,1726013	0,145459476	FALSE	25,6%	353,2738654	102,5824032	0,090339333	FALSE	31,1%
2920	2	1135,523139	Empty	672,7191745	443,5001226	142,46138	0,125458808	FALSE	420,306677	0,199220471	420,306677	416,6391	165,1726013	0,145459476	FALSE	36,7%	416,3584842	102,5824032	0,090339333	FALSE	36,7%
2920	3	1135,523139	Empty	611,5333871	378,6281276	142,46138	0,125458808	FALSE	351,7484744	0,199220471	351,7484744	428,2003714	165,1726013	0,145459476	FALSE	37,7%	365,8907891	102,5824032	0,090339333	FALSE	32,2%
2921	1	1119,538689	Non-Empty	788,1786384	353,3494722	0	0	TRUE	348,2170826	0	366,3480231	369,8849433	0	0	TRUE	33,0%	352,898065	0	0	TRUE	31,5%
2921	2	1119,538689	Non-Empty	783,1718559	349,0461731	0	0	TRUE	344,617267	0	364,0208541	367,5353066	0	0	TRUE	32,8%	425,9114578	0	0	TRUE	38,0%
2921	3	1119,538689	Non-Empty	837,278525	417,1430438	0	0	TRUE	426,7043394	0	389,1698118	382,1184391	0	0	TRUE	34,1%	340,7291662	0	0	TRUE	30,4%
2922	1	1311,346491	Empty	683,862177	466,0077361	175,0723883	0,13350582	FALSE	445,7972784	0,109365175	445,7972784	441,0369725	216,9274203	0,165423419	FALSE	33,6%	501,8733483	229,4850708	0,174999569	FALSE	38,3%
2922	2	1311,346491	Empty	596,8411465	426,7703281	175,0723883	0,13350582	FALSE	454,3434928	0,109365175	454,3434928	384,9152961	216,9274203	0,165423419	FALSE	29,4%	372,3576455	229,4850708	0,174999569	FALSE	28,4%
2922	3	1311,346491	Empty	623,5751167	418,5684266	175,0723883	0,13350582	FALSE	411,2057196	0,109365175	411,2057196	485,3942223	216,9274203	0,165423419	FALSE	37,0%	437,1154969	229,4850708	0,174999569	FALSE	33,3%
2923	1	805,557806	Non-Empty	567,6695631	249,2572411	0	0	TRUE	257,7868645	0	255,9868087	259,8812317	0	0	TRUE	32,3%	271,2592612	0	0	TRUE	33,7%
2923	2	805,557806	Non-Empty	589,5143136	259,7087998	0	0	TRUE	256,8452315	0	265,8375535	269,8818395	0	0	TRUE	33,5%	254,819306	0	0	TRUE	31,6%
2923	3	805,557806	Non-Empty	629,1997657	296,5917652	0	0	TRUE	290,9257101	0	283,7334438	275,7947349	0	0	TRUE	34,2%	279,4792388	0	0	TRUE	34,7%
2924	1	1048,802546	Empty	519,994516	359,4368488	132,7125253	0,126537188	FALSE	366,0677324	0,069991195	366,0677324	330,1355699	162,0138043	0,15447503	FALSE	31,5%	337,115104	155,0342702	0,147820265	FALSE	32,1%
2924	2	1048,802546	Empty	527,8459405	362,3966574	132,7125253	0,126537188	FALSE	364,135925	0,069991195	364,135925	335,1203042	162,0138043	0,15447503	FALSE	32,0%	362,0865932	155,0342702	0,147820265	FALSE	34,5%
2924	3	1048,802546	Empty	502,5277414	326,9690395	132,7125253	0,126537188	FALSE	318,5988883	0,069991195	318,5988883	383,5466717	162,0138043	0,15447503	FALSE	36,6%	349,6008486	155,0342702	0,147820265	FALSE	33,3%
2925	1	1086,23866	Empty	494,4259631	309,1666897	93,09533889	0,085704314	FALSE	322,5081348	0,015516922	322,5081348	295,585494	112,7529199	0,10380124	FALSE	27,2%	277,5943243	154,3962296	0,142138404	FALSE	25,6%
2925	2	1086,23866	Empty	655,1190263	440,5854393	93,09533889	0,085704314	FALSE	424,6525708	0,015516922	424,6525708	391,6535446	112,7529199	0,10380124	FALSE	36,1%	350,0102349	154,3962296	0,142138404	FALSE	32,2%
2925	3	1086,23866	Empty	532,4958261	336,4865311	93,09533889	0,085704314	FALSE	339,0779546	0,015516922	339,0779546	398,9996215	112,7529199	0,10380124	FALSE	36,7%	458,6341009	154,3962296	0,142138404	FALSE	42,2%
2926	1	955,4222059	Non-Empty	763,3390642	291,2774156	0	0	TRUE	292,1713658	0	307,1703116	298,9369455	0	0	TRUE	31,3%	339,7056732	0	0	TRUE	35,6%
2926	2	955,4222059	Non-Empty	833,4772646	353,930342	0	0	TRUE	347,3390182	0	335,394169	326,4042931	0	0	TRUE	34,2%	318,4740686	0	0	TRUE	33,3%
2926	3	955,4222059	Non-Empty	777,4726732	310,2144482	0	0	TRUE	315,911822	0	312,8577253	330,0809673	0	0	TRUE	34,5%	297,2424641	0	0	TRUE	31,1%
2927	1	930,7676581	Non-Empty	677,3058196	317,4725796	0	0	TRUE	308,6768451	0	317,768361	303,8061671	0	0	TRUE	32,6%	345,116098	0	0	TRUE	37,1%
2927	2	930,7676581	Non-Empty	683,2760905	325,6886722	0	0	TRUE	319,1387594	0	320,5694047	306,4841378	0	0	TRUE	32,9%	324,1999708	0	0	TRUE	34,8%
2927	3	930,7676581	Non-Empty	623,2982645	287,6064063	0	0	TRUE	302,9520537	0	292,4298924	320,4773533	0	0	TRUE	34,4%	261,4515894	0	0	TRUE	28,1%
2928	1	1464,144408	Empty	725,3971935	498,5046222	196,7405212	0,134372347	FALSE	500,0837534	0,014774259	500,0837534	486,3534109	206,0511361	0,14073143	FALSE	33,2%	476,6981794	299,3168243	0,204431218	FALSE	32,6%
2928	2	1464,144408	Empty	685,1233667	461,0713919	196,7405212	0,134372347	FALSE	465,4911195	0,014774259	465,4911195	459,3512206	206,0511361	0,14073143	FALSE	31,4%	595,8727242	299,3168243	0,204431218	FALSE	40,7%
2928	3	1464,144408	Empty	739,038955	504,5683939	196,7405212	0,134372347	FALSE	498,5695352	0,014774259	498,5695352	518,4397766	206,0511361	0,14073143	FALSE	35,4%	391,5735045	299,3168243	0,204431218	FALSE	26,7%
2929	1	1178,255352	Empty	642,6203764	466,4343174	160,0064265	0,135799448	FALSE	461,0063354	0,052608121	461,0063354	407,6688043	202,4043284	0,171783076	FALSE	34,6%	411,0193087	199,0538241	0,168939461	FALSE	34,9%
2929	2	1178,255352	Empty	542,2700831	366,0003589	160,0064265	0,135799448	FALSE	360,4887118	0,052608121	360,4887118	344,0080715	202,4043284	0,171783076	FALSE	29,2%	424,7199523	199,0538241	0,168939461	FALSE	36,0%
2929	3	1178,255352	Empty	505,639123	345,8206752	160,0064265	0,135799448	FALSE	356,7603044	0,052608121	356,7603044	426,5784757	202,4043284	0,171783076	FALSE	36,2%	342,5160906	199,0538241	0,168939461	FALSE	29,1%
2930	1	625,4993446	Non-Empty	488,4697713	202,6148031	0	0	TRUE	204,398362	0	205,2771149	193,3076769	0	0	TRUE	30,9%	181,5965839	0	0	TRUE	29,0%
2930	2	625,4993446	Non-Empty	529,6190711	237,7729277	0	0	TRUE	233,5653114	0	222,5699138	209,5921555	0	0	TRUE	33,5%	188,3223833	0	0	TRUE	30,1%
2930	3	625,4993446	Non-Empty	470,3260837	185,1116139	0	0	TRUE	187,5356712	0	197,6523159	222,5995122	0	0	TRUE	35,6%	255,5803774	0	0	TRUE	40,9%
2931	1	931,6633911	Non-Empty	662,4685104	302,2346566	0	0	TRUE	301,6116873	0	3										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2946	1	1398,317438	Empty	662,0217937	446,027752	201,8689126	0,144365583	FALSE	438,9197189	0,059044287	438,9197189	440,9310978	203,7244371	0,145692553	FALSE	31,5%	466,1058126	251,5866805	0,179921006	FALSE	33,3%
2946	2	1398,317438	Empty	703,9563085	489,3217331	201,8689126	0,144365583	FALSE	483,5731663	0,059044287	483,5731663	468,8610419	203,7244371	0,145692553	FALSE	33,5%	420,9987985	251,5866805	0,179921006	FALSE	30,1%
2946	3	1398,317438	Empty	658,9973612	462,9679526	201,8689126	0,144365583	FALSE	475,8245526	0,059044287	475,8245526	488,5252981	203,7244371	0,145692553	FALSE	34,9%	511,2128267	251,5866805	0,179921006	FALSE	36,6%
2947	1	827,0037899	Non-Empty	551,1436067	217,4364519	0	0	TRUE	251,872415	0	235,9894532	223,2577781	0	0	TRUE	27,0%	296,8731554	0	0	TRUE	35,9%
2947	2	827,0037899	Non-Empty	731,1088153	343,344317	0	0	TRUE	323,7229366	0	313,0472121	296,1582565	0	0	TRUE	35,8%	243,8600919	0	0	TRUE	29,5%
2947	3	827,0037899	Non-Empty	649,1807219	266,2230211	0	0	TRUE	251,4084383	0	277,9671246	307,5877553	0	0	TRUE	37,2%	286,2705427	0	0	TRUE	34,6%
2948	1	1101,942225	Non-Empty	834,1863023	406,3942364	0	0	TRUE	384,2762017	0	396,3946761	377,736983	0	0	TRUE	34,3%	272,3902128	0	0	TRUE	24,7%
2948	2	1101,942225	Non-Empty	723,8981416	348,2529676	0	0	TRUE	378,2818246	0	343,9871508	327,7962	0	0	TRUE	29,7%	445,7294392	0	0	TRUE	40,4%
2948	3	1101,942225	Non-Empty	760,8798739	347,2950206	0	0	TRUE	339,3841984	0	361,5603977	396,4090416	0	0	TRUE	36,0%	383,8225726	0	0	TRUE	34,8%
2949	1	993,9346631	Empty	505,9886132	356,3619412	134,6762679	0,13549811	FALSE	356,8009256	0,108379111	356,8009256	328,0970874	148,2893129	0,149194226	FALSE	33,0%	331,3115544	183,2743058	0,18439271	FALSE	33,3%
2949	2	993,9346631	Empty	485,3794802	319,7840461	134,6762679	0,13549811	FALSE	304,2542684	0,108379111	304,2542684	314,7335524	148,2893129	0,149194226	FALSE	31,7%	393,4324708	183,2743058	0,18439271	FALSE	39,6%
2949	3	993,9346631	Empty	452,7635389	317,7886758	134,6762679	0,13549811	FALSE	332,879469	0,108379111	332,879469	351,1040233	148,2893129	0,149194226	FALSE	35,3%	269,1906379	183,2743058	0,18439271	FALSE	27,1%
2950	1	1014,175638	Empty	549,953387	345,533663	100,5083948	0,099103539	FALSE	331,1325585	0,063313892	331,1325585	332,7796523	116,2099702	0,114585646	FALSE	32,8%	334,7764241	94,7099275	0,09338612	FALSE	33,0%
2950	2	1014,175638	Empty	533,9943345	347,0589522	100,5083948	0,099103539	FALSE	350,1421894	0,063313892	350,1421894	323,1227467	116,2099702	0,114585646	FALSE	31,9%	344,6227895	94,7099275	0,09338612	FALSE	34,0%
2950	3	1014,175638	Empty	500,2837745	321,5830223	100,5083948	0,099103539	FALSE	332,9008896	0,063313892	332,9008896	358,2732385	116,2099702	0,114585646	FALSE	35,3%	334,7764241	94,7099275	0,09338612	FALSE	33,0%
2951	1	1338,29536	Empty	653,7183551	455,8832444	192,2015232	0,14361667	FALSE	456,9315182	0,017737758	456,9315182	444,3425157	203,7422419	0,152240117	FALSE	33,2%	380,3576286	267,727129	0,200050854	FALSE	28,4%
2951	2	1338,29536	Empty	624,1889264	425,2625263	192,2015232	0,14361667	FALSE	425,2195307	0,017737758	425,2195307	424,2709045	203,7422419	0,152240117	FALSE	31,7%	478,9688657	267,727129	0,200050854	FALSE	35,8%
2951	3	1338,29536	Empty	657,0382922	457,1495993	192,2015232	0,14361667	FALSE	456,144311	0,017737758	456,144311	469,6819397	203,7422419	0,152240117	FALSE	35,1%	478,9688657	267,727129	0,200050854	FALSE	35,8%
2952	1	869,2857222	Non-Empty	577,6320816	280,5585341	0	0	TRUE	318,4076135	0	267,9364777	263,2352672	0	0	TRUE	30,3%	309,8444158	0	0	TRUE	35,6%
2952	2	869,2857222	Non-Empty	638,4671953	265,4665483	0	0	TRUE	227,388528	0	296,1550386	290,9587056	0	0	TRUE	33,5%	240,9901012	0	0	TRUE	27,7%
2952	3	869,2857222	Non-Empty	657,9543256	323,2606398	0	0	TRUE	323,4895807	0	305,194206	315,0917494	0	0	TRUE	36,2%	318,4512052	0	0	TRUE	36,6%
2953	1	1810,914013	Empty	935,9976748	603,5923193	265,7820651	0,146766806	FALSE	583,9314003	0,09801192	583,9314003	618,7920232	277,1609436	0,153050306	FALSE	34,2%	603,6380044	268,7373627	0,148398743	FALSE	33,3%
2953	2	1810,914013	Empty	839,4620148	566,3507683	265,7820651	0,146766806	FALSE	605,9839584	0,09801192	605,9839584	554,9718899	277,1609436	0,153050306	FALSE	30,6%	563,3954708	268,7373627	0,148398743	FALSE	31,1%
2953	3	1810,914013	Empty	973,6876334	640,9709257	265,7820651	0,146766806	FALSE	620,9986545	0,09801192	620,9986545	637,1501002	277,1609436	0,153050306	FALSE	35,2%	643,8805381	268,7373627	0,148398743	FALSE	35,6%
2954	1	1196,068071	Empty	511,7774571	354,442856	157,3346011	0,131543183	FALSE	397,2269551	0,17297403	397,2269551	346,070315	165,7071421	0,138543237	FALSE	28,9%	443,485914	183,9545085	0,153799364	FALSE	37,1%
2954	2	1196,068071	Empty	607,7365385	387,1014181	157,3346011	0,131543183	FALSE	366,584998	0,17297403	366,584998	410,9590455	165,7071421	0,138543237	FALSE	34,4%	389,7300456	183,9545085	0,153799364	FALSE	32,6%
2954	3	1196,068071	Empty	676,910176	454,5237969	157,3346011	0,131543183	FALSE	432,256118	0,17297403	432,256118	439,0387106	165,7071421	0,138543237	FALSE	36,7%	362,8521115	183,9545085	0,153799364	FALSE	30,3%
2955	1	1644,640547	Empty	800,6982742	529,7791061	230,9714204	0,140438846	FALSE	521,4175415	0,103880913	521,4175415	532,179752	260,0884216	0,158143019	FALSE	32,4%	535,4643642	287,4635591	0,174788077	FALSE	32,6%
2955	2	1644,640547	Empty	775,5604664	544,589046	230,9714204	0,140438846	FALSE	576,175229	0,103880913	576,175229	515,4720448	260,0884216	0,158143019	FALSE	31,3%	560,206728	287,4635591	0,174788077	FALSE	39,5%
2955	3	1644,640547	Empty	856,0546169	570,2723951	230,9714204	0,140438846	FALSE	547,0477767	0,103880913	547,0477767	596,9887504	260,0884216	0,158143019	FALSE	36,3%	458,969455	287,4635591	0,174788077	FALSE	27,9%
2956	1	1286,838517	Empty	616,5036934	367,1711379	154,0673909	0,119725505	FALSE	310,4466093	0,292058458	310,4466093	401,4247278	219,0360832	0,170212564	FALSE	31,2%	383,5768655	224,0339756	0,174096417	FALSE	29,8%
2956	2	1286,838517	Empty	653,7778643	490,663792	154,0673909	0,119725505	FALSE	520,1577466	0,292058458	520,1577466	425,6950997	219,0360832	0,170212564	FALSE	33,1%	420,6972073	224,0339756	0,174096417	FALSE	32,7%
2956	3	1286,838517	Empty	594,3810393	429,0035866	154,0673909	0,119725505	FALSE	456,2341607	0,292058458	456,2341607	459,718689	219,0360832	0,170212564	FALSE	35,7%	482,5644437	224,0339756	0,174096417	FALSE	37,5%
2957	1	711,4366732	Non-Empty	438,7091397	202,238934	0	0	TRUE	232,0287051	0	206,6682157	183,2588513	0	0	TRUE	25,8%	275,8631998	0	0	TRUE	38,8%
2957	2	711,4366732	Non-Empty	578,451263	321,7007515	0	0	TRUE	331,210217	0	272,4982901	241,6323354	0	0	TRUE	34,0%	254,0845262	0	0	TRUE	35,7%
2957	3	711,4366732	Non-Empty	493,0562011	187,4969877	0	0	TRUE	148,1977511	0	232,2701674	286,5454864	0	0	TRUE	40,3%	181,4889473	0	0	TRUE	25,5%
2958	1	970,3483908	Empty	467,205107	315,4934334	106,4441772	0,109696866	FALSE	317,7646429	0,014898931	317,7646429	294,8741242	130,6807543	0,134674057	FALSE	30,4%	304,6442622	117,2933484	0,120877563	FALSE	31,4%
2958	2	970,3483908	Empty	508,9290072	351,330931	106,4441772	0,109696866	FALSE	347,7157378	0,014898931	347,7157378	321,2079513	130,6807543	0,134674057	FALSE	33,1%	338,4936247	117,2933484	0,120877563	FALSE	34,9%
2958	3	970,3483908	Empty	456,1629257	303,5240264	106,4441772	0,109696866	FALSE	304,8680101	0,014898931	304,8680101	354,2663153	130,6807543	0,134674057	FALSE	36,5%	327,2105039	117,2933484	0,120877563	FALSE	33,7%
2959	1	1034,03472	Non-Empty	754,1816044	337,328	0	0	TRUE	331,1500097	0	344,1433265	348,9795714	0	0	TRUE	33,7%	353,4042714	0	0	TRUE	34,2%
2959	2	1034,03472	Non-Empty	717,5015044	318,4644688	0	0	TRUE	330,1030473	0	327,4056978	332,0067289	0	0	TRUE	32,1%	314,1371301	0	0	TRUE	30,4%
2959	3	1034,03472	Non-Empty	794,3784535	378,2422511	0	0	TRUE	372,7816629	0	362,4856956	353,0484196	0	0	TRUE	34,1%	366,4933185	0	0	TRUE	35,4%
2960	1	757,9541048	Non-Empty	661,7101385	289,8627926	0	0	TRUE	292,0903175	0	266,7543841	249,5811562	0	0	TRUE	32,9%	246,9738094	0	0	TRUE	32,6%
2960	2	757,9541048	Non-Empty	637,2644804	253,5790174	0	0	TRUE	243,9684253	0	256,8996364	240,3608417	0	0	TRUE	31,7%	212,9084564	0	0	TRUE	28,1%
2960	3	757,9541048	Non-Empty	581,2040985	214,5122494	0	0	TRUE	221,8953621	0	234,3000844	268,012107	0	0	TRUE	35,4%	298,071839	0	0	TRUE	39,3%
2961	1	1067,960041	Empty	532,30431	367,9604593	124,5942471	0,116665645	FALSE	387,7752793	0,116954438	387,7752793	341,5998353	150,9548711	0,141348801	FALSE	32,0%	351,7986018	140,7561046	0,131799037	FALSE	32,9%
2961	2	1067,960041	Empty	526,7470053	332,3549027	124,5942471	0,116665645	FALSE	322,1214708	0,116954438	322,1214708	338,0335024	150,9548711	0,141348801	FALSE	31,7%	389,4913091	140,7561046	0,131799037	FALSE	36,5%
2961	3																				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
2977	1	953,429494	Non-Empty	728,3947086	311,4665664	0	0	TRUE	305,880644	0	317,4797343	308,2340076	0	0	TRUE	32,3%	339,7277507	0	0	TRUE	35,6%
2977	2	953,429494	Non-Empty	753,8106317	341,5589156	0	0	TRUE	340,6494192	0	328,557575	318,9892365	0	0	TRUE	33,5%	273,9739925	0	0	TRUE	28,7%
2977	3	953,429494	Non-Empty	705,2508131	300,404012	0	0	TRUE	306,8994307	0	307,3921847	326,2062499	0	0	TRUE	34,2%	339,7277507	0	0	TRUE	35,6%
2978	1	639,3967496	Non-Empty	449,9592705	189,9292894	0	0	TRUE	188,2339537	0	203,4094708	191,8907853	0	0	TRUE	30,0%	269,219684	0	0	TRUE	42,1%
2978	2	639,3967496	Non-Empty	516,4678223	258,7243718	0	0	TRUE	259,3155668	0	233,4754572	220,254193	0	0	TRUE	34,4%	193,5016479	0	0	TRUE	30,3%
2978	3	639,3967496	Non-Empty	447,9735931	190,7430884	0	0	TRUE	191,8472291	0	202,5118216	227,2517712	0	0	TRUE	35,5%	176,6754176	0	0	TRUE	27,6%
2979	1	1338,431576	Empty	640,4037227	446,6547496	198,442995	0,148265327	FALSE	438,1921477	0,040102389	438,1921477	423,5775766	221,0711918	0,165171829	FALSE	31,6%	356,9150869	268,7408827	0,200787913	FALSE	26,7%
2979	2	1338,431576	Empty	661,3760024	473,57306	198,442995	0,148265327	FALSE	471,0564889	0,040102389	471,0564889	437,449119	221,0711918	0,165171829	FALSE	32,7%	505,6297065	268,7408827	0,200787913	FALSE	37,8%
2979	3	1338,431576	Empty	592,5109645	418,2037663	198,442995	0,148265327	FALSE	429,1829394	0,040102389	429,1829394	477,4048803	221,0711918	0,165171829	FALSE	35,7%	475,8867825	268,7408827	0,200787913	FALSE	35,6%
2980	1	1123,785991	Non-Empty	785,4758733	325,335175	0	0	TRUE	315,1660619	0	356,8365267	345,842738	0	0	TRUE	30,8%	348,7611695	0	0	TRUE	31,0%
2980	2	1123,785991	Non-Empty	874,8839021	422,2118454	0	0	TRUE	419,5113739	0	397,4540065	385,2088325	0	0	TRUE	34,3%	297,0928481	0	0	TRUE	26,4%
2980	3	1123,785991	Non-Empty	813,3409706	376,2389701	0	0	TRUE	389,1085547	0	369,4954573	392,7344201	0	0	TRUE	34,9%	477,931973	0	0	TRUE	42,5%
2981	1	890,4364908	Non-Empty	655,0207266	314,058556	0	0	TRUE	302,1629867	0	310,6322342	305,502579	0	0	TRUE	34,3%	296,8121636	0	0	TRUE	33,3%
2981	2	890,4364908	Non-Empty	574,3181336	257,8506003	0	0	TRUE	270,4496683	0	272,3604273	267,8627772	0	0	TRUE	30,1%	272,0778166	0	0	TRUE	30,6%
2981	3	890,4364908	Non-Empty	648,2974345	318,5273345	0	0	TRUE	317,8238358	0	307,4438293	317,0711346	0	0	TRUE	35,6%	321,5465106	0	0	TRUE	36,1%
2982	1	781,0152057	Non-Empty	671,1629601	304,4603638	0	0	TRUE	301,3318837	0	280,0544746	250,6434222	0	0	TRUE	32,1%	260,3384019	0	0	TRUE	33,3%
2982	2	781,0152057	Non-Empty	664,0933061	282,9883496	0	0	TRUE	265,4575094	0	277,1045379	248,003285	0	0	TRUE	31,8%	249,4909685	0	0	TRUE	31,9%
2982	3	781,0152057	Non-Empty	536,4812881	193,5664923	0	0	TRUE	214,2258127	0	223,8561932	282,3684985	0	0	TRUE	36,2%	271,1858353	0	0	TRUE	34,7%
2983	1	920,1881525	Non-Empty	692,2102613	329,475203	0	0	TRUE	321,196263	0	321,120246	305,3400631	0	0	TRUE	33,2%	370,07567	0	0	TRUE	40,2%
2983	2	920,1881525	Non-Empty	661,5137238	300,7552831	0	0	TRUE	294,4529607	0	306,8816488	291,7995492	0	0	TRUE	31,7%	240,0490833	0	0	TRUE	26,1%
2983	3	920,1881525	Non-Empty	629,832522	289,9576663	0	0	TRUE	304,5389289	0	292,1844791	323,0485402	0	0	TRUE	35,1%	310,0633992	0	0	TRUE	33,7%
2984	1	829,3285508	Non-Empty	645,9581183	284,534687	0	0	TRUE	281,9118038	0	281,1056421	273,3724817	0	0	TRUE	33,0%	286,6814743	0	0	TRUE	34,6%
2984	2	829,3285508	Non-Empty	645,0594677	285,1570028	0	0	TRUE	284,055086	0	280,7145707	272,9921686	0	0	TRUE	32,9%	327,6359707	0	0	TRUE	39,5%
2984	3	829,3285508	Non-Empty	614,712609	259,636861	0	0	TRUE	263,3616611	0	267,508338	282,9639004	0	0	TRUE	34,1%	215,0111058	0	0	TRUE	25,9%
2985	1	1523,870963	Empty	714,2829858	489,530788	208,4081441	0,13676233	FALSE	494,891476	0,120226646	494,891476	470,7661515	251,6652469	0,16514866	FALSE	30,9%	555,764704	254,1307605	0,166766588	FALSE	36,5%
2985	2	1523,870963	Empty	738,1838898	529,7757457	208,4081441	0,13676233	FALSE	551,4804874	0,120226646	551,4804874	486,5186429	251,6652469	0,16514866	FALSE	31,9%	484,0531293	254,1307605	0,166766588	FALSE	31,8%
2985	3	1523,870963	Empty	761,7427441	504,5644288	208,4081441	0,13676233	FALSE	477,4989992	0,120226646	477,4989992	566,5861682	251,6652469	0,16514866	FALSE	37,2%	484,0531293	254,1307605	0,166766588	FALSE	31,8%
2986	1	965,2083149	Non-Empty	791,1420653	331,5375223	0	0	TRUE	328,8204508	0	326,9088867	329,1198784	0	0	TRUE	34,1%	360,4994911	0	0	TRUE	37,3%
2986	2	965,2083149	Non-Empty	726,048768	273,5170394	0	0	TRUE	277,8727822	0	300,011597	302,0406735	0	0	TRUE	31,3%	244,2093327	0	0	TRUE	25,3%
2986	3	965,2083149	Non-Empty	818,679896	360,1537533	0	0	TRUE	358,515082	0	338,2878312	334,047763	0	0	TRUE	34,6%	360,4994911	0	0	TRUE	37,3%
2987	1	776,8846562	Non-Empty	515,8552837	254,474204	0	0	TRUE	267,7415054	0	250,3451989	228,1912449	0	0	TRUE	29,4%	309,1683836	0	0	TRUE	39,8%
2987	2	776,8846562	Non-Empty	591,7163257	287,9389573	0	0	TRUE	258,8099703	0	287,1606552	261,748768	0	0	TRUE	33,7%	198,1848613	0	0	TRUE	25,5%
2987	3	776,8846562	Non-Empty	493,2581905	234,4714949	0	0	TRUE	250,3331805	0	239,378802	286,9446433	0	0	TRUE	36,9%	269,5314113	0	0	TRUE	34,7%
2988	1	1450,253971	Empty	773,5457423	531,1671189	209,8098972	0,144671141	FALSE	512,6080554	0,047082852	512,6080554	504,7060006	215,1703399	0,148367351	FALSE	34,8%	452,2297328	256,178557	0,176643927	FALSE	31,2%
2988	2	1450,253971	Empty	673,5610956	454,2909365	209,8098972	0,144671141	FALSE	458,8403373	0,047082852	458,8403373	439,4702318	215,1703399	0,148367351	FALSE	30,3%	499,012119	256,178557	0,176643927	FALSE	34,4%
2988	3	1450,253971	Empty	674,6058126	464,7959155	209,8098972	0,144671141	FALSE	478,8055782	0,047082852	478,8055782	506,0777384	215,1703399	0,148367351	FALSE	34,9%	499,012119	256,178557	0,176643927	FALSE	34,4%
2989	1	820,8016496	Non-Empty	651,2580378	298,3893953	0	0	TRUE	306,2121589	0	280,9188349	262,5160274	0	0	TRUE	32,0%	291,8405865	0	0	TRUE	35,6%
2989	2	820,8016496	Non-Empty	655,5894143	277,7871688	0	0	TRUE	260,6763292	0	282,7871654	264,2619648	0	0	TRUE	32,2%	264,4805315	0	0	TRUE	32,2%
2989	3	820,8016496	Non-Empty	596,0284154	244,6250855	0	0	TRUE	253,9131615	0	257,0956492	294,0236574	0	0	TRUE	35,8%	264,4805315	0	0	TRUE	32,2%
2990	1	929,7216688	Empty	415,1655251	269,0467324	98,14018552	0,105558673	FALSE	271,1953319	0,044290983	271,1953319	278,5309205	107,2235639	0,11532867	FALSE	30,0%	309,9072229	127,7312154	0,13738651	FALSE	33,3%
2990	2	929,7216688	Empty	467,8656326	322,9703482	98,14018552	0,105558673	FALSE	326,3424401	0,044290983	326,3424401	313,8869619	107,2235639	0,11532867	FALSE	33,8%	320,5936789	127,7312154	0,13738651	FALSE	34,5%
2990	3	929,7216688	Empty	491,4926879	337,7045962	98,14018552	0,105558673	FALSE	332,1838968	0,044290983	332,1838968	337,3037864	107,2235639	0,11532867	FALSE	36,3%	299,220767	127,7312154	0,13738651	FALSE	32,2%
2991	1	851,5387178	Non-Empty	513,1126043	237,8919459	0	0	TRUE	253,4133436	0	253,4772883	260,8736313	0	0	TRUE	30,6%	246,228063	16,41114264	0,019272339	FALSE	28,9%
2991	2	851,5387178	Non-Empty	572,8802323	264,4519612	0	0	TRUE	246,7657462	0	283,0024572	291,2603302	0	0	TRUE	34,2%	359,0825918	16,41114264	0,019272339	FALSE	42,2%
2991	3	851,5387178	Non-Empty	637,7720496	349,1948017	0	0	TRUE	351,3596279	0	315,0589722	299,4047563	0	0	TRUE	35,2%	246,228063	16,41114264	0,019272339	FALSE	28,9%
2992	1	1368,256973	Empty	673,3989576	464,8933482	185,2678488	0,135404279	FALSE	455,029193	0,038135514	455,029193	456,1294969	195,0032194	0,142519441	FALSE	33,3%	427,580304	207,6551036	0,151766158	FALSE	31,3%
2992	2	1368,256973	Empty	630,1494788	436,5696589	185,2678488	0,135404279	FALSE	441,6312932	0,038135514	441,6312932	426,8342883	195,0032194	0,142519441	FALSE	31,2%	456,0856576	207,6551036	0,151766158	FALSE	33,3%
2992	3	1368,256973	Empty	660,632899	466,7939656	185,2678488	0,135404279	FALSE	471,5964864	0,038135514	471,5964864	485,2931875	195,0032194	0,142519441	FALSE	35,5%	484,5910112	207,6551036	0,151766158	FALSE	35,4%
2993	1	1026,367154	Empty	423,4139965	300,4807283	118,500217	0,115455972	FALSE	338,8200304	0,175827994	338,8200304	267,7846776	151,1962676	0,147312068	FALSE	26,1%	368,1534358	118,2546083	0,115216673	FALSE	35,9%
2993	2	1026,367154	Empty	579,1688122	389,7593561	118,500217	0,115455972	FALSE	361,6224704	0,175827994	361,6224704	366,2905216	151,1962676	0,147312068	FALSE	35,7%	323,5287769	118,2546083	0,115216673	FALSE	31,5%
2993	3	1026,367154	Empty	507,6020567	336,12707	118,500217	0,115455972	FALSE	325,92465												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3008	1	1386,910909	Empty	623,732846	424,684441	207,3661616	0,14951657	FALSE	448,3173871	0,072202503	448,3173871	424,962293	207,0883096	0,149316231	FALSE	30,6%	429,9423819	241,8679877	0,174393313	FALSE	31,0%
3008	2	1386,910909	Empty	696,786957	462,3109871	207,3661616	0,14951657	FALSE	450,5163682	0,072202503	450,5163682	474,7355938	207,0883096	0,149316231	FALSE	34,2%	527,0261455	241,8679877	0,174393313	FALSE	38,0%
3008	3	1386,910909	Empty	734,4351593	499,9154811	207,3661616	0,14951657	FALSE	488,077154	0,072202503	488,077154	487,2130224	207,0883096	0,149316231	FALSE	35,1%	429,9423819	241,8679877	0,174393313	FALSE	31,0%
3009	1	1015,236519	Empty	494,2502083	370,66645	120,9736842	0,119158129	FALSE	399,6219037	0,208892178	399,6219037	313,5511972	178,0889371	0,175416205	FALSE	30,9%	303,4040172	188,236117	0,185411097	FALSE	29,9%
3009	2	1015,236519	Empty	481,14693	322,9612356	120,9736842	0,119158129	FALSE	317,3147531	0,208892178	317,3147531	305,2385075	178,0889371	0,175416205	FALSE	30,1%	361,7509436	188,236117	0,185411097	FALSE	35,6%
3009	3	1015,236519	Empty	497,4570168	321,6088337	120,9736842	0,119158129	FALSE	298,2998625	0,208892178	298,2998625	396,4468145	178,0889371	0,175416205	FALSE	39,0%	350,0815584	188,236117	0,185411097	FALSE	34,5%
3010	1	822,287674	Empty	422,3871033	265,7689936	68,29567693	0,083055698	FALSE	246,7712781	0,183587085	246,7712781	262,9370612	57,6230218	0,070076475	FALSE	32,0%	214,1374151	77,53598246	0,094293013	FALSE	26,0%
3010	2	822,287674	Empty	421,5471989	279,5309628	68,29567693	0,083055698	FALSE	275,1351209	0,183587085	275,1351209	262,4142186	57,6230218	0,070076475	FALSE	31,9%	308,3578778	77,53598246	0,094293013	FALSE	37,5%
3010	3	822,287674	Empty	391,2145544	276,9877176	68,29567693	0,083055698	FALSE	300,3812751	0,183587085	300,3812751	296,9363942	57,6230218	0,070076475	FALSE	36,1%	299,7923811	77,53598246	0,094293013	FALSE	36,5%
3011	1	1645,531175	Empty	811,0419983	560,9379765	234,7968013	0,142687544	FALSE	570,84715	0,060994088	570,84715	541,8082055	253,9265723	0,15431283	FALSE	32,9%	441,4839739	354,250804	0,215280518	FALSE	26,8%
3011	2	1645,531175	Empty	795,0952877	523,1045659	234,7968013	0,142687544	FALSE	511,1270393	0,060994088	511,1270393	531,1551707	253,9265723	0,15431283	FALSE	32,3%	662,2259608	354,250804	0,215280518	FALSE	40,2%
3011	3	1645,531175	Empty	819,4334751	561,4886329	234,7968013	0,142687544	FALSE	563,556986	0,060994088	563,556986	572,567799	253,9265723	0,15431283	FALSE	34,8%	541,8212406	354,250804	0,215280518	FALSE	32,9%
3012	1	1377,667124	Empty	623,1308295	429,206736	193,9240935	0,140762663	FALSE	455,5555644	0,109716869	455,5555644	416,5235776	206,6072519	0,149968921	FALSE	30,2%	436,4885939	212,5117744	0,154254806	FALSE	31,7%
3012	2	1377,667124	Empty	709,230659	464,822097	193,9240935	0,140762663	FALSE	440,6864569	0,109716869	440,6864569	474,0758721	206,6072519	0,149968921	FALSE	34,4%	504,6899367	212,5117744	0,154254806	FALSE	36,6%
3012	3	1377,667124	Empty	706,1244017	483,6382915	193,9240935	0,140762663	FALSE	481,4251032	0,109716869	481,4251032	487,0676747	206,6072519	0,149968921	FALSE	35,4%	436,4885939	212,5117744	0,154254806	FALSE	31,7%
3013	1	1026,396431	Empty	545,1021698	348,9997084	104,6047763	0,101914595	FALSE	343,3649495	0,029813484	343,3649495	342,804039	105,1904427	0,102485199	FALSE	33,4%	353,9298039	160,1049796	0,155987467	FALSE	34,5%
3013	2	1026,396431	Empty	515,6491939	326,9550164	104,6047763	0,101914595	FALSE	328,7285416	0,029813484	328,7285416	324,2816414	105,1904427	0,102485199	FALSE	31,6%	377,5251242	160,1049796	0,155987467	FALSE	36,8%
3013	3	1026,396431	Empty	537,0481754	350,4417066	104,6047763	0,101914595	FALSE	354,3029403	0,029813484	354,3029403	359,310751	105,1904427	0,102485199	FALSE	35,0%	294,9415033	160,1049796	0,155987467	FALSE	28,7%
3014	1	1505,479831	Empty	775,7111959	503,6735203	186,5233055	0,12389625	FALSE	498,3402745	0,028923014	498,3402745	497,9928785	197,6572599	0,131291868	FALSE	33,1%	501,8266102	230,4480142	0,153072801	FALSE	33,3%
3014	2	1505,479831	Empty	745,9496521	490,0204477	186,5233055	0,12389625	FALSE	500,795673	0,028923014	500,795673	478,8864933	197,6572599	0,131291868	FALSE	31,8%	552,0092712	230,4480142	0,153072801	FALSE	36,7%
3014	3	1505,479831	Empty	783,9322717	511,7858626	186,5233055	0,12389625	FALSE	506,3438832	0,028923014	506,3438832	528,6004588	197,6572599	0,131291868	FALSE	35,1%	451,6439492	230,4480142	0,153072801	FALSE	30,0%
3015	1	1476,025868	Empty	741,4900954	477,1581356	207,0280887	0,140260475	FALSE	469,5798387	0,038659423	469,5798387	493,0219668	215,3032156	0,145866831	FALSE	33,4%	520,9503062	336,7625725	0,228154926	FALSE	35,3%
3015	2	1476,025868	Empty	721,1750032	474,5080004	207,0280887	0,140260475	FALSE	484,5946605	0,038659423	484,5946605	479,5143194	215,3032156	0,145866831	FALSE	32,5%	573,0453369	336,7625725	0,228154926	FALSE	38,8%
3015	3	1476,025868	Empty	783,6217577	524,3597317	207,0280887	0,140260475	FALSE	521,8513685	0,038659423	521,8513685	503,4895815	215,3032156	0,145866831	FALSE	34,1%	382,0302246	336,7625725	0,228154926	FALSE	25,9%
3016	1	1008,735695	Empty	539,4293954	344,4650558	102,9938448	0,102101914	FALSE	330,6789923	0,088690652	330,6789923	340,7149031	116,8068635	0,115795311	FALSE	33,8%	382,2577372	151,2479709	0,149938157	FALSE	37,9%
3016	2	1008,735695	Empty	476,2165714	314,6013783	102,9938448	0,102101914	FALSE	334,1644614	0,088690652	334,1644614	300,7883597	116,8068635	0,115795311	FALSE	29,8%	350,4029257	151,2479709	0,149938157	FALSE	34,7%
3016	3	1008,735695	Empty	536,6245569	349,6692612	102,9938448	0,102101914	FALSE	343,8922416	0,088690652	343,8922416	367,2324325	116,8068635	0,115795311	FALSE	36,4%	276,0750324	151,2479709	0,149938157	FALSE	27,4%
3017	1	1079,291898	Empty	508,3788117	365,0415984	126,6706505	0,117364589	FALSE	393,4437292	0,261165944	393,4437292	314,0930043	177,6192446	0,164570164	FALSE	29,1%	462,5536704	141,9294543	0,131502381	FALSE	42,9%
3017	2	1079,291898	Empty	538,3659569	385,8034181	126,6706505	0,117364589	FALSE	404,9802234	0,261165944	404,9802234	332,6200402	177,6192446	0,164570164	FALSE	30,8%	379,5312168	141,9294543	0,131502381	FALSE	35,2%
3017	3	1079,291898	Empty	547,7651613	328,4468812	126,6706505	0,117364589	FALSE	280,8679451	0,261165944	280,8679451	432,5788532	177,6192446	0,164570164	FALSE	40,1%	237,2070105	141,9294543	0,131502381	FALSE	22,0%
3018	1	876,5001813	Non-Empty	679,6408001	287,4163875	0	0	TRUE	287,0907915	0	287,0907915	285,6356072	0	0	TRUE	32,6%	346,2716766	0	0	TRUE	39,5%
3018	2	876,5001813	Non-Empty	676,1940554	292,1096757	0	0	TRUE	299,9241127	0	288,8047876	284,1870287	0	0	TRUE	32,4%	238,0617776	0	0	TRUE	27,2%
3018	3	876,5001813	Non-Empty	696,3617757	296,9741181	0	0	TRUE	289,4852772	0	297,4184897	306,6775455	0	0	TRUE	35,0%	292,1667271	0	0	TRUE	33,3%
3019	1	1535,040036	Empty	742,0857352	511,2086279	227,2279651	0,148027387	FALSE	515,0037751	0,021965636	515,0037751	509,7513144	224,095659	0,14598685	FALSE	33,2%	573,5314422	277,2937228	0,180642665	FALSE	37,4%
3019	2	1535,040036	Empty	707,1684465	480,8809589	227,2279651	0,148027387	FALSE	489,2657257	0,021965636	489,2657257	485,7660348	224,095659	0,14598685	FALSE	31,6%	489,188583	277,2937228	0,180642665	FALSE	31,9%
3019	3	1535,040036	Empty	789,802618	542,9504497	227,2279651	0,148027387	FALSE	530,7705357	0,021965636	530,7705357	539,5226872	224,095659	0,14598685	FALSE	35,1%	472,3200112	277,2937228	0,180642665	FALSE	30,8%
3020	1	852,0585486	Non-Empty	645,5975918	287,5521336	0	0	TRUE	273,134288	0	292,1423636	278,3057671	0	0	TRUE	32,7%	215,4630813	0	0	TRUE	25,3%
3020	2	852,0585486	Non-Empty	647,6424686	296,5474423	0	0	TRUE	289,0800285	0	293,0677003	279,1872775	0	0	TRUE	32,8%	313,4008455	0	0	TRUE	36,8%
3020	3	852,0585486	Non-Empty	589,7013259	267,9589728	0	0	TRUE	289,8442322	0	266,8484848	294,565504	0	0	TRUE	34,6%	323,1946219	0	0	TRUE	37,9%
3021	1	1709,868253	Empty	873,0539007	598,8585382	274,9118922	0,160779576	FALSE	582,8542138	0,058574821	582,8542138	593,550254	284,7414187	0,16652828	FALSE	34,7%	602,3399526	320,8690952	0,187657204	FALSE	35,2%
3021	2	1709,868253	Empty	758,182899	525,2841301	274,9118922	0,160779576	FALSE	550,5763093	0,058574821	550,5763093	515,4546036	284,7414187	0,16652828	FALSE	30,1%	602,3399526	320,8690952	0,187657204	FALSE	35,2%
3021	3	1709,868253	Empty	853,204297	585,7255393	274,9118922	0,160779576	FALSE	576,4377295	0,058574821	576,4377295	600,8633951	284,7414187	0,16652828	FALSE	35,1%	505,1883474	320,8690952	0,187657204	FALSE	29,5%
3022	1	758,1298001	Non-Empty	431,9398099	213,2942796	0	0	TRUE	233,8183707	0	221,9150593	225,6237886	0	0	TRUE	29,8%	231,6507722	0	0	TRUE	30,6%
3022	2	758,1298001	Non-Empty	509,4358466	257,4980056	0	0	TRUE	244,729786	0	261,7297214	266,1038486	0	0	TRUE	35,1%	263,2395139	0	0	TRUE	34,7%
3022	3	758,1298001	Non-Empty	534,263008	287,3375149	0	0	TRUE	279,5816433	0	274,4850194	266,4021629	0	0	TRUE	35,1%	263,239				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3039	1	1363,173221	Empty	686,0271978	459,3440155	171,6175489	0,125895628	FALSE	461,0761539	0,089158793	461,0761539	433,9184931	178,6419936	0,131048638	FALSE	31,8%	502,2217131	193,7456948	0,142128448	FALSE	36,8%
3039	2	1363,173221	Empty	715,8551728	465,5744976	171,6175489	0,125895628	FALSE	443,709143	0,089158793	443,709143	452,7849609	178,6419936	0,131048638	FALSE	33,2%	444,8249459	193,7456948	0,142128448	FALSE	32,6%
3039	3	1363,173221	Empty	646,5368127	438,2547082	171,6175489	0,125895628	FALSE	458,3879243	0,089158793	458,3879243	476,4697672	178,6419936	0,131048638	FALSE	35,0%	416,1265623	193,7456948	0,142128448	FALSE	30,5%
3040	1	1404,558813	Empty	676,7116151	442,8791129	181,462829	0,129195607	FALSE	447,0080683	0,02354017	447,0080683	443,1672967	181,1746452	0,12899043	FALSE	31,6%	526,7095547	222,7941244	0,15862214	FALSE	37,5%
3040	2	1404,558813	Empty	725,1942709	480,199339	181,462829	0,129195607	FALSE	473,1658646	0,02354017	473,1658646	474,9177898	181,1746452	0,12899043	FALSE	33,8%	438,9246289	222,7941244	0,15862214	FALSE	31,3%
3040	3	1404,558813	Empty	716,537299	481,4803606	181,462829	0,129195607	FALSE	484,3848797	0,02354017	484,3848797	486,4737261	181,1746452	0,12899043	FALSE	34,6%	438,9246289	222,7941244	0,15862214	FALSE	31,3%
3041	1	794,208292	Non-Empty	596,3495879	283,5146476	0	0	TRUE	288,4467862	0	271,0290157	261,7715393	0	0	TRUE	33,0%	273,2759714	0	0	TRUE	34,4%
3041	2	794,208292	Non-Empty	583,0480224	253,4425653	0	0	TRUE	241,6041873	0	264,983719	255,9327304	0	0	TRUE	32,2%	315,975342	0	0	TRUE	39,8%
3041	3	794,208292	Non-Empty	568,1119188	257,2510791	0	0	TRUE	264,1573185	0	258,1955572	276,5040223	0	0	TRUE	34,8%	204,9569786	0	0	TRUE	25,8%
3042	1	771,2724158	Non-Empty	549,9577188	260,4385803	0	0	TRUE	270,9385821	0	253,7902508	249,0780158	0	0	TRUE	32,3%	274,2301923	0	0	TRUE	35,6%
3042	2	771,2724158	Non-Empty	553,3198151	251,7798296	0	0	TRUE	250,2589843	0	255,3417651	250,6007225	0	0	TRUE	32,5%	222,8120312	0	0	TRUE	28,9%
3042	3	771,2724158	Non-Empty	568,0523027	259,054006	0	0	TRUE	250,0748495	0	262,1404	271,5936775	0	0	TRUE	35,2%	274,2301923	0	0	TRUE	35,6%
3043	1	1523,943476	Empty	756,9366609	514,777241	236,2733536	0,155040759	FALSE	504,3086372	0,104504956	504,3086372	507,7854921	262,992184	0,17257345	FALSE	33,3%	507,9811586	210,6289269	0,138213084	FALSE	33,3%
3043	2	1523,943476	Empty	694,4743271	492,601917	236,2733536	0,155040759	FALSE	522,420323	0,104504956	522,420323	465,8830866	262,992184	0,17257345	FALSE	30,6%	522,9217809	210,6289269	0,138213084	FALSE	34,3%
3043	3	1523,943476	Empty	767,6049364	516,5643179	236,2733536	0,155040759	FALSE	497,2145156	0,104504956	497,2145156	550,2748971	262,992184	0,17257345	FALSE	36,1%	493,0405363	210,6289269	0,138213084	FALSE	32,4%
3044	1	833,6319171	Non-Empty	582,5477554	283,6445481	0	0	TRUE	296,0191834	0	274,7609033	246,0885151	0	0	TRUE	29,5%	266,7622135	0	0	TRUE	32,0%
3044	2	833,6319171	Non-Empty	628,3011762	319,0252807	0	0	TRUE	321,0272276	0	296,3406813	265,4163578	0	0	TRUE	31,8%	325,1164477	0	0	TRUE	39,0%
3044	3	833,6319171	Non-Empty	556,6165129	230,9620882	0	0	TRUE	216,585506	0	262,5303324	322,1270441	0	0	TRUE	38,6%	241,7532559	0	0	TRUE	29,0%
3045	1	1267,179244	Empty	580,6772009	396,5364324	186,9620261	0,147541894	FALSE	399,8530395	0,015328131	399,8530395	396,1734558	196,0474414	0,154711689	FALSE	31,3%	405,4973582	195,3568393	0,154166698	FALSE	32,0%
3045	2	1267,179244	Empty	622,9926083	436,4904333	186,9620261	0,147541894	FALSE	437,4456339	0,015328131	437,4456339	425,0436114	196,0474414	0,154711689	FALSE	33,5%	443,5127355	195,3568393	0,154166698	FALSE	35,0%
3045	3	1267,179244	Empty	625,8815618	434,1523786	186,9620261	0,147541894	FALSE	429,8805709	0,015328131	429,8805709	445,9621771	196,0474414	0,154711689	FALSE	35,2%	418,1691506	195,3568393	0,154166698	FALSE	33,0%
3046	1	921,4210996	Non-Empty	665,3303318	307,3653534	0	0	TRUE	301,4279087	0	310,0117616	304,2772863	0	0	TRUE	33,0%	264,9085661	0	0	TRUE	28,8%
3046	2	921,4210996	Non-Empty	646,7488744	304,7483378	0	0	TRUE	314,775335	0	301,353701	295,7793791	0	0	TRUE	32,1%	334,0151486	0	0	TRUE	36,3%
3046	3	921,4210996	Non-Empty	665,4244947	309,3074084	0	0	TRUE	305,2178559	0	310,055637	321,3644342	0	0	TRUE	34,9%	322,4973849	0	0	TRUE	35,0%
3047	1	608,1341597	Non-Empty	457,9512188	217,2549936	0	0	TRUE	203,5386549	0	216,0433138	196,9187061	0	0	TRUE	32,4%	160,0353052	0	0	TRUE	26,3%
3047	2	608,1341597	Non-Empty	425,7385078	213,3006344	0	0	TRUE	227,8426476	0	200,8466279	183,0672627	0	0	TRUE	30,1%	232,0511925	0	0	TRUE	38,2%
3047	3	608,1341597	Non-Empty	405,3840928	177,5785318	0	0	TRUE	176,7528573	0	191,2442181	228,1481909	0	0	TRUE	37,5%	216,047662	0	0	TRUE	35,5%
3048	1	1032,18182	Non-Empty	695,5686551	332,5636758	0	0	TRUE	340,6846422	0	334,6228654	329,5394283	0	0	TRUE	31,9%	385,6503502	0	0	TRUE	37,4%
3048	2	1032,18182	Non-Empty	702,0850905	332,6041712	0	0	TRUE	334,2491975	0	337,7577799	332,6267187	0	0	TRUE	32,2%	283,5664339	0	0	TRUE	27,5%
3048	3	1032,18182	Non-Empty	747,9059108	367,0139726	0	0	TRUE	357,2479799	0	359,8011743	370,0156726	0	0	TRUE	35,8%	362,9650355	0	0	TRUE	35,2%
3049	1	1510,055258	Empty	811,7728953	514,0560504	198,8652011	0,131693989	FALSE	502,5486031	0,117230229	502,5486031	511,1673066	219,709487	0,145497647	FALSE	33,9%	544,8652994	231,9004162	0,153570815	FALSE	36,1%
3049	2	1510,055258	Empty	728,4805111	479,5630025	198,8652011	0,131693989	FALSE	516,8548915	0,117230229	516,8548915	458,7187166	219,709487	0,145497647	FALSE	30,4%	544,8652994	231,9004162	0,153570815	FALSE	36,1%
3049	3	1510,055258	Empty	828,4300449	516,4362054	198,8652011	0,131693989	FALSE	490,6517636	0,117230229	490,6517636	540,1692351	219,709487	0,145497647	FALSE	35,8%	420,3246595	231,9004162	0,153570815	FALSE	27,8%
3050	1	1036,40947	Non-Empty	674,1026608	377,5805598	0	0	TRUE	365,8954374	0	367,7100061	353,8712809	0	0	TRUE	34,1%	325,148069	0	0	TRUE	31,4%
3050	2	1036,40947	Non-Empty	659,8480442	310,0108551	0	0	TRUE	295,0106446	0	335,0805645	322,4698447	0	0	TRUE	31,1%	345,4698233	0	0	TRUE	33,3%
3050	3	1036,40947	Non-Empty	656,9697005	348,8180548	0	0	TRUE	375,5033877	0	333,6188992	360,0683441	0	0	TRUE	34,7%	365,7915776	0	0	TRUE	35,3%
3051	1	809,723902	Non-Empty	664,3957585	261,6708869	0	0	TRUE	284,6706712	0	257,7879511	253,7618334	0	0	TRUE	31,3%	338,2390983	0	0	TRUE	41,8%
3051	2	809,723902	Non-Empty	710,9958388	274,7111239	0	0	TRUE	264,1510652	0	275,8689503	271,5604446	0	0	TRUE	33,5%	266,4914108	0	0	TRUE	32,9%
3051	3	809,723902	Non-Empty	711,5062729	273,3418912	0	0	TRUE	260,9021656	0	276,0670006	284,401624	0	0	TRUE	35,1%	204,9933929	0	0	TRUE	25,3%
3052	1	640,902708	Non-Empty	528,2028302	225,520969	0	0	TRUE	216,707685	0	222,347946	225,4324829	0	0	TRUE	35,2%	262,9344443	0	0	TRUE	41,0%
3052	2	640,902708	Non-Empty	433,3168445	162,8508048	0	0	TRUE	186,2533422	0	182,405517	184,9359499	0	0	TRUE	28,9%	172,5507291	0	0	TRUE	26,9%
3052	3	640,902708	Non-Empty	560,9887648	252,5309342	0	0	TRUE	237,9416808	0	236,149245	230,5342752	0	0	TRUE	36,0%	205,4175346	0	0	TRUE	32,1%
3053	1	990,8156336	Empty	545,3554985	341,8448006	105,4327971	0,106410106	FALSE	332,9738486	0,08364409	332,9738486	330,2510165	90,38881201	0,091226671	FALSE	33,3%	353,162008	124,8585362	0,126015912	FALSE	35,6%
3053	2	990,8156336	Empty	528,968976	325,4333648	105,4327971	0,106410106	FALSE	316,5374996	0,08364409	316,5374996	320,3278275	90,38881201	0,091226671	FALSE	32,3%	333,5418965	124,8585362	0,126015912	FALSE	33,7%
3053	3	990,8156336	Empty	500,4103971	323,5374682	105,4327971	0,106410106	FALSE	341,3042854	0,08364409	341,3042854	340,2367896	90,38881201	0,091226671	FALSE	34,3%	304,1117291	124,8585362	0,126015912	FALSE	30,7%
3054	1	1047,747081	Empty	482,5539501	313,8036508	139,26077	0,132914491	FALSE	311,0347776	0,077584194	311,0347776	341,1238695	188,5840112	0,179990014	FALSE	32,6%	247,2212213	198,8407121	0,189779304	FALSE	23,6%
3054	2	1047,747081	Empty	496,2463692	328,800202	139,26077	0,132914491	FALSE	327,3354609	0,077584194	327,3354609	350,8032245	188,5840112	0,179990014	FALSE	33,5%	388,4904905	198,8407121	0,189779304	FALSE	37,1%
3054	3	1047,747081	Empty	566,8910397	405,1432278	139,26077	0,132914491	FALSE	409,3768421	0,077584194	409,3768421	355,8199866	188,5840112	0,179990014	FALSE	34,0%	412,0353688	198,8407121	0,189779304	FALSE	39,3%
3055	1	816,7755498	Non-Empty	601,5943182	248,4140982	0	0	TRUE	232,2561782	0	268,8237873	250,6141917	0	0	TRUE	30,7%	253,7555106	0	0	TRUE	31,1%
3055	2	816,7755498	Non-Empty	582,2323078	296,7063955	0	0	TRUE	348,2027832	0	260,171829										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3070	1	1138,986214	Non-Empty	884,194838	379,3846681	0	0	TRUE	366,5507963	0	385,131329	381,0731934	0	0	TRUE	33,5%	389,2737692	0	0	TRUE	34,2%
3070	2	1138,986214	Non-Empty	822,7589121	358,2298389	0	0	TRUE	385,6770638	0	358,3715032	354,5953364	0	0	TRUE	31,1%	374,8562222	0	0	TRUE	32,9%
3070	3	1138,986214	Non-Empty	907,961358	401,3717067	0	0	TRUE	386,5783536	0	395,4833815	403,3176838	0	0	TRUE	35,4%	374,8562222	0	0	TRUE	32,9%
3071	1	964,7330521	Non-Empty	716,0464332	347,3750763	0	0	TRUE	347,7177072	0	333,4308291	314,23746	0	0	TRUE	32,6%	335,1177971	0	0	TRUE	34,7%
3071	2	964,7330521	Non-Empty	667,3130988	318,2532952	0	0	TRUE	338,2074793	0	310,7378928	292,8508033	0	0	TRUE	30,4%	314,8076275	0	0	TRUE	32,6%
3071	3	964,7330521	Non-Empty	688,4154833	299,1046806	0	0	TRUE	278,8078656	0	320,5643303	357,6447889	0	0	TRUE	37,1%	314,8076275	0	0	TRUE	32,6%
3072	1	967,2551093	Non-Empty	605,4836011	289,4924448	0	0	TRUE	293,3297197	0	303,9626438	290,9117692	0	0	TRUE	30,1%	326,1674206	20,26080803	0,020946706	FALSE	33,7%
3072	2	967,2551093	Non-Empty	696,8900687	375,9192069	0	0	TRUE	374,7767762	0	349,8501815	334,8290894	0	0	TRUE	34,6%	404,8974876	20,26080803	0,020946706	FALSE	41,9%
3072	3	967,2551093	Non-Empty	624,3667329	301,8434576	0	0	TRUE	299,1486134	0	313,442284	341,5142507	0	0	TRUE	35,3%	236,1902011	20,26080803	0,020946706	FALSE	24,4%
3073	1	1169,159599	Non-Empty	849,2533129	389,7616591	0	0	TRUE	372,6722069	0	397,7431921	398,6290587	0	0	TRUE	34,1%	330,1156514	0	0	TRUE	28,2%
3073	2	1169,159599	Non-Empty	779,1702648	355,6946581	0	0	TRUE	374,6212531	0	364,9201759	365,732938	0	0	TRUE	31,3%	467,6638395	0	0	TRUE	40,0%
3073	3	1169,159599	Non-Empty	867,942626	423,7032815	0	0	TRUE	421,8661387	0	406,4962307	404,7976021	0	0	TRUE	34,6%	371,3801078	0	0	TRUE	31,8%
3074	1	1591,76034	Empty	772,142192	513,2159685	208,370937	0,130905974	FALSE	509,8823622	0,035149304	509,8823622	528,4906004	202,0400441	0,126928683	FALSE	33,2%	525,1168132	208,7932625	0,131171293	FALSE	33,0%
3074	2	1591,76034	Empty	728,4416831	489,7390567	208,370937	0,130905974	FALSE	506,6290475	0,035149304	506,6290475	498,5799072	202,0400441	0,126928683	FALSE	31,3%	508,7069128	208,7932625	0,131171293	FALSE	32,0%
3074	3	1591,76034	Empty	857,9543167	588,8053149	208,370937	0,130905974	FALSE	575,2489304	0,035149304	575,2489304	564,6898324	202,0400441	0,126928683	FALSE	35,5%	557,936614	208,7932625	0,131171293	FALSE	35,1%
3075	1	1132,112506	Non-Empty	838,1555489	358,2894765	0	0	TRUE	363,7376035	0	366,640717	363,9919168	0	0	TRUE	32,2%	490,582086	0	0	TRUE	43,3%
3075	2	1132,112506	Non-Empty	840,1629089	366,8238925	0	0	TRUE	378,7990754	0	367,5188117	364,8636676	0	0	TRUE	32,2%	327,054724	0	0	TRUE	28,9%
3075	3	1132,112506	Non-Empty	909,7366464	406,9991372	0	0	TRUE	389,5758274	0	397,9529775	403,2569218	0	0	TRUE	35,6%	314,4756962	0	0	TRUE	27,8%
3076	1	1007,414285	Empty	516,4076427	349,0412021	136,7654102	0,135758855	FALSE	342,3629813	0,101826074	342,3629813	314,388744	138,7189591	0,137698027	FALSE	31,2%	367,4099156	125,8195918	0,124893595	FALSE	36,5%
3076	2	1007,414285	Empty	553,0512697	373,0205821	136,7654102	0,135758855	FALSE	353,6781143	0,101826074	353,6781143	336,6973678	138,7189591	0,137698027	FALSE	33,4%	343,7060501	125,8195918	0,124893595	FALSE	34,1%
3076	3	1007,414285	Empty	420,020032	285,3525007	136,7654102	0,135758855	FALSE	311,3731892	0,101826074	311,3731892	356,328173	138,7189591	0,137698027	FALSE	35,4%	296,2983191	125,8195918	0,124893595	FALSE	29,4%
3077	1	748,4409147	Non-Empty	536,6432455	248,6451781	0	0	TRUE	223,0965467	0	261,5240136	255,2451859	0	0	TRUE	34,1%	271,3098316	6,841478654	0,009140974	FALSE	36,3%
3077	2	748,4409147	Non-Empty	491,7914695	235,253509	0	0	TRUE	241,1649844	0	239,6662588	233,9122054	0	0	TRUE	31,3%	280,665343	6,841478654	0,009140974	FALSE	37,5%
3077	3	748,4409147	Non-Empty	507,3545076	264,5422276	0	0	TRUE	284,1793836	0	247,2506423	259,2835235	0	0	TRUE	34,6%	196,4657401	6,841478654	0,009140974	FALSE	26,3%
3078	1	1373,17109	Empty	643,0852975	422,925628	166,5139041	0,121262314	FALSE	432,4988219	0,095993583	432,4988219	408,3730733	211,174079	0,153785701	FALSE	29,7%	369,1320135	220,3075186	0,16043705	FALSE	26,9%
3078	2	1373,17109	Empty	727,527822	507,0121155	166,5139041	0,121262314	FALSE	516,2292716	0,095993583	516,2292716	461,9959028	211,174079	0,153785701	FALSE	33,6%	472,4889773	220,3075186	0,16043705	FALSE	34,4%
3078	3	1373,17109	Empty	691,7565607	443,233347	166,5139041	0,121262314	FALSE	424,4429967	0,095993583	424,4429967	502,8021141	211,174079	0,153785701	FALSE	36,6%	531,5500994	220,3075186	0,16043705	FALSE	38,7%
3079	1	1023,85092	Non-Empty	650,4105499	274,0041765	0	0	TRUE	283,4161982	0	305,2865611	321,8375668	0	0	TRUE	31,4%	314,1360776	0	0	TRUE	30,7%
3079	2	1023,85092	Non-Empty	705,7064314	313,0253467	0	0	TRUE	306,1626572	0	331,2410748	349,1991955	0	0	TRUE	34,1%	349,0400862	0	0	TRUE	34,1%
3079	3	1023,85092	Non-Empty	825,1891236	436,8213964	0	0	TRUE	434,2720642	0	387,3232836	352,8141572	0	0	TRUE	34,5%	360,6747558	0	0	TRUE	35,2%
3080	1	1756,206885	Empty	875,0984186	565,0961449	223,8975149	0,127489259	FALSE	562,8796055	0,02913276	562,8796055	570,8167512	231,4473463	0,131788201	FALSE	32,5%	520,3575954	256,3553623	0,14597105	FALSE	29,6%
3080	2	1756,206885	Empty	877,9448471	580,2232755	223,8975149	0,127489259	FALSE	590,2874381	0,02913276	590,2874381	572,6734441	231,4473463	0,131788201	FALSE	32,6%	563,7207284	256,3553623	0,14597105	FALSE	32,1%
3080	3	1756,206885	Empty	926,5208215	610,8874642	223,8975149	0,127489259	FALSE	603,039841	0,02913276	603,039841	612,7166894	231,4473463	0,131788201	FALSE	34,9%	672,1285608	256,3553623	0,14597105	FALSE	38,3%
3081	1	1062,911853	Non-Empty	781,0768216	357,6387712	0	0	TRUE	338,6751913	0	364,7159645	363,0562283	0	0	TRUE	34,2%	310,5135749	0	0	TRUE	29,2%
3081	2	1062,911853	Non-Empty	692,6529663	318,3649939	0	0	TRUE	348,551492	0	323,4273348	321,9554934	0	0	TRUE	30,3%	441,8847027	0	0	TRUE	41,6%
3081	3	1062,911853	Non-Empty	802,6054762	386,9080875	0	0	TRUE	375,6851692	0	374,7685532	377,9001309	0	0	TRUE	35,6%	310,5135749	0	0	TRUE	29,2%
3082	1	749,0048835	Non-Empty	492,1480303	226,1456545	0	0	TRUE	248,1640378	0	228,5219655	221,4491824	0	0	TRUE	29,6%	284,94751	0	0	TRUE	38,0%
3082	2	749,0048835	Non-Empty	567,7824958	264,8341187	0	0	TRUE	249,9065008	0	263,641758	255,482013	0	0	TRUE	34,1%	227,958008	0	0	TRUE	30,4%
3082	3	749,0048835	Non-Empty	553,1366348	258,0251103	0	0	TRUE	250,934345	0	256,84116	272,0736882	0	0	TRUE	36,3%	236,0993654	0	0	TRUE	31,5%
3083	1	816,8028879	Non-Empty	600,3471065	250,1140321	0	0	TRUE	244,1631819	0	265,1125169	254,4640534	0	0	TRUE	31,2%	281,0504561	0	0	TRUE	34,4%
3083	2	816,8028879	Non-Empty	654,6770736	307,9557385	0	0	TRUE	305,5166275	0	289,1045611	277,4924373	0	0	TRUE	34,0%	263,4848026	0	0	TRUE	32,3%
3083	3	816,8028879	Non-Empty	594,6253804	258,7331173	0	0	TRUE	267,1230785	0	262,5858099	284,8463973	0	0	TRUE	34,9%	272,2676293	0	0	TRUE	33,3%
3084	1	1358,640369	Empty	648,4407767	476,5448813	211,3300914	0,155545276	FALSE	484,1254401	0,066380751	484,1254401	446,2550853	241,6198874	0,177839473	FALSE	32,8%	500,551715	212,2198998	0,156200202	FALSE	36,8%
3084	2	1358,640369	Empty	622,1724003	432,9545815	211,3300914	0,155545276	FALSE	423,2132168	0,066380751	423,2132168	428,1772639	241,6198874	0,177839473	FALSE	31,5%	414,7428496	212,2198998	0,156200202	FALSE	30,5%
3084	3	1358,640369	Empty	626,4565546	449,1409065	211,3300914	0,155545276	FALSE	451,3017124	0,066380751	451,3017124	484,2080202	241,6198874	0,177839473	FALSE	35,6%	443,3458047	212,2198998	0,156200202	FALSE	32,6%
3085	1	1283,552377	Empty	617,6771205	415,6205771	160,810674	0,125285635	FALSE	397,9878248	0,107618152	397,9878248	393,6204823	182,4152459	0,142117493	FALSE	30,7%	358,8426001	192,810459	0,150216277	FALSE	28,0%
3085	2	1283,552377	Empty	666,0465759	475,6424203	160,810674	0,125285635	FALSE	469,6620558	0,107618152	469,6620558	424,444367	182,4152459	0,142117493	FALSE	33,1%	414,049154	192,810459	0,150216277	FALSE	32,3%
3085	3	1283,552377	Empty	553,1000538	392,2893798	160,810674	0,125285635	FALSE	415,9024967	0,107618152	415,9024967	465,4875279	182,4152459	0,142117493	FALSE	36,3%	510,6606232	192,810459	0,150216277	FALSE	39,8%
3086	1	1160,004083	Empty	544,2186376	375,4416778	170,3807966	0,14687948	FALSE	385,2753655	0,051740692	385,2753655	373,4931053	172,3293691	0,148559278	FALSE	32,2%	327,5305646	218,2919098	0,188182018	FALSE	28,2%
3086	2	1160,004083	Empty	556,2733277	371,3450516	170,3807966	0,14687948	FALSE	365,027423	0,05174069											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3101	1	1141,936863	Non-Empty	751,1560053	296,7748544	0	0	TRUE	234,1271053	0	370,1864443	371,6652807	0	0	TRUE	32,5%	343,6897354	0	0	TRUE	30,1%
3101	2	1141,936863	Non-Empty	772,8900491	404,782325	0	0	TRUE	428,4080029	0	380,8974661	382,4190914	0	0	TRUE	33,5%	421,297095	0	0	TRUE	36,9%
3101	3	1141,936863	Non-Empty	793,0910141	440,3796834	0	0	TRUE	479,4017547	0	390,8529525	387,8524907	0	0	TRUE	34,0%	376,9500324	0	0	TRUE	33,0%
3102	1	838,2321261	Non-Empty	618,7117937	302,676121	0	0	TRUE	305,9033223	0	288,762868	274,8633026	0	0	TRUE	32,8%	286,7636221	0	0	TRUE	34,2%
3102	2	838,2321261	Non-Empty	587,671917	272,2213087	0	0	TRUE	276,0335744	0	274,2760522	261,0738078	0	0	TRUE	31,1%	275,734252	0	0	TRUE	32,9%
3102	3	838,2321261	Non-Empty	589,6370375	263,3346965	0	0	TRUE	256,2952295	0	275,1932059	302,2950157	0	0	TRUE	36,1%	275,734252	0	0	TRUE	32,9%
3103	1	1270,506787	Empty	701,7968217	481,6388123	174,3726391	0,137246523	FALSE	476,3040778	0,037859643	476,3040778	447,5698776	192,5042066	0,151517653	FALSE	35,2%	418,6897366	221,3843477	0,174248851	FALSE	33,0%
3103	2	1270,506787	Empty	585,7311745	381,5105323	174,3726391	0,137246523	FALSE	392,1131649	0,037859643	392,1131649	373,549184	192,5042066	0,151517653	FALSE	29,4%	375,3770052	221,3843477	0,174248851	FALSE	29,5%
3103	3	1270,506787	Empty	627,448615	407,3574422	174,3726391	0,137246523	FALSE	402,0895441	0,037859643	402,0895441	449,3877252	192,5042066	0,151517653	FALSE	35,4%	476,4400451	221,3843477	0,174248851	FALSE	37,5%
3104	1	1420,032271	Empty	740,5354061	484,8982257	207,7675105	0,146311823	FALSE	468,9158499	0,106485147	468,9158499	472,1679148	185,1352984	0,130374008	FALSE	33,3%	541,6617941	226,7591074	0,159685883	FALSE	38,1%
3104	2	1420,032271	Empty	732,5169331	476,9572101	207,7675105	0,146311823	FALSE	461,0522918	0,106485147	461,0522918	467,0553089	185,1352984	0,130374008	FALSE	32,9%	439,1852385	226,7591074	0,159685883	FALSE	30,9%
3104	3	1420,032271	Empty	665,9443458	458,1768353	207,7675105	0,146311823	FALSE	490,0641294	0,106485147	490,0641294	480,8090474	185,1352984	0,130374008	FALSE	33,9%	439,1852385	226,7591074	0,159685883	FALSE	30,9%
3105	1	1333,725843	Empty	659,9330491	435,0379624	157,9850051	0,118453883	FALSE	495,7305636	0,138606804	495,7305636	421,3629743	211,6599932	0,158698277	FALSE	31,6%	465,5458133	167,4771543	0,1255709	FALSE	34,9%
3105	2	1333,725843	Empty	634,4264212	472,4523316	157,9850051	0,118453883	FALSE	436,0659299	0,138606804	436,0659299	405,0771577	211,6599932	0,158698277	FALSE	30,4%	427,7988554	167,4771543	0,1255709	FALSE	32,1%
3105	3	1333,725843	Empty	656,1294368	426,2355494	157,9850051	0,118453883	FALSE	401,9293499	0,138606804	401,9293499	507,2857114	211,6599932	0,158698277	FALSE	38,0%	440,3811747	167,4771543	0,1255709	FALSE	33,0%
3106	1	1032,86213	Non-Empty	792,9195376	346,8032027	0	0	TRUE	344,6795757	0	346,3136934	328,0775246	0	0	TRUE	31,8%	355,7636226	0	0	TRUE	34,4%
3106	2	1032,86213	Non-Empty	810,5135338	376,6186873	0	0	TRUE	386,7165487	0	353,9980063	335,3571973	0	0	TRUE	32,5%	344,2873767	0	0	TRUE	33,3%
3106	3	1032,86213	Non-Empty	761,4071823	309,4402401	0	0	TRUE	301,4660057	0	332,5504304	369,4274082	0	0	TRUE	35,8%	332,8111308	0	0	TRUE	32,2%
3107	1	755,0165717	Non-Empty	562,4315952	301,9834802	0	0	TRUE	290,3441627	0	282,8247126	260,735808	0	0	TRUE	34,5%	223,4232712	13,12409964	0,017382532	FALSE	29,6%
3107	2	755,0165717	Non-Empty	483,7053361	237,756715	0	0	TRUE	240,6168913	0	243,2363755	223,9295568	0	0	TRUE	29,7%	238,8317727	13,12409964	0,017382532	FALSE	31,6%
3107	3	755,0165717	Non-Empty	455,3060326	215,2763764	0	0	TRUE	224,0555177	0	228,9554835	270,7114341	0	0	TRUE	35,9%	292,7615278	13,12409964	0,017382532	FALSE	38,8%
3108	1	1045,15859	Empty	436,4875557	306,7943085	127,9507122	0,122422294	FALSE	316,9178235	0,081314525	316,9178235	272,4436312	188,3645672	0,180225823	FALSE	26,1%	264,2929768	200,1055913	0,191459548	FALSE	25,3%
3108	2	1045,15859	Empty	596,2140243	449,537585	127,9507122	0,122422294	FALSE	442,6779079	0,081314525	442,6779079	372,1405379	188,3645672	0,180225823	FALSE	35,6%	360,3995138	200,1055913	0,191459548	FALSE	34,5%
3108	3	1045,15859	Empty	431,9072964	288,8266964	127,9507122	0,122422294	FALSE	285,5628586	0,081314525	285,5628586	400,5744209	188,3645672	0,180225823	FALSE	38,3%	420,4660994	200,1055913	0,191459548	FALSE	40,2%
3109	1	725,4794863	Non-Empty	579,4065241	241,3805617	0	0	TRUE	247,3330439	0	239,1851615	232,1110095	0	0	TRUE	32,0%	248,9390394	0	0	TRUE	34,3%
3109	2	725,4794863	Non-Empty	575,3607494	238,8891278	0	0	TRUE	246,3959507	0	237,5150227	230,4902668	0	0	TRUE	31,8%	263,1641274	0	0	TRUE	36,3%
3109	3	725,4794863	Non-Empty	602,6475464	245,2097968	0	0	TRUE	231,7504916	0	248,7793021	262,87821	0	0	TRUE	36,2%	213,3763195	0	0	TRUE	29,4%
3110	1	1124,05137	Empty	538,5595408	352,1647053	150,8360935	0,13418968	FALSE	342,3643905	0,106435455	342,3643905	360,5276235	170,1247287	0,151349603	FALSE	32,1%	402,4381449	194,2489452	0,172811448	FALSE	35,8%
3110	2	1124,05137	Empty	533,5535627	376,4651095	150,8360935	0,13418968	FALSE	395,9710869	0,106435455	395,9710869	357,1764743	170,1247287	0,151349603	FALSE	31,8%	333,0522578	194,2489452	0,172811448	FALSE	29,6%
3110	3	1124,05137	Empty	581,7215586	395,4215104	150,8360935	0,13418968	FALSE	385,7158928	0,106435455	385,7158928	406,3472723	170,1247287	0,151349603	FALSE	36,2%	388,5609675	194,2489452	0,172811448	FALSE	34,6%
3111	1	1106,132345	Non-Empty	820,3369866	353,9395424	0	0	TRUE	355,4697334	0	361,5266589	354,9828295	0	0	TRUE	32,1%	285,8544261	0	0	TRUE	25,8%
3111	2	1106,132345	Non-Empty	828,0009371	377,6386856	0	0	TRUE	395,2040693	0	364,9042006	358,2992359	0	0	TRUE	32,4%	410,1389593	0	0	TRUE	37,1%
3111	3	1106,132345	Non-Empty	861,5773264	374,5541166	0	0	TRUE	355,458542	0	379,7014852	392,8502793	0	0	TRUE	35,5%	410,1389593	0	0	TRUE	37,1%
3112	1	1385,459709	Empty	673,8514163	481,0656249	183,1649005	0,132205144	FALSE	484,2167272	0,118349426	484,2167272	454,717073	207,3509723	0,149662218	FALSE	32,8%	437,5135922	204,5935378	0,147671951	FALSE	31,6%
3112	2	1385,459709	Empty	599,1708735	428,5084776	183,1649005	0,132205144	FALSE	453,7829754	0,118349426	453,7829754	404,3224059	207,3509723	0,149662218	FALSE	29,2%	466,681165	204,5935378	0,147671951	FALSE	33,7%
3112	3	1385,459709	Empty	700,2480998	475,8850661	183,1649005	0,132205144	FALSE	447,4600061	0,118349426	447,4600061	526,4202298	207,3509723	0,149662218	FALSE	38,5%	481,2649514	204,5935378	0,147671951	FALSE	34,7%
3113	1	782,2672596	Non-Empty	567,4231931	296,8307069	0	0	TRUE	306,89924	0	273,2808986	255,3155632	0	0	TRUE	32,6%	249,6597637	0	0	TRUE	31,9%
3113	2	782,2672596	Non-Empty	550,2079112	251,6166258	0	0	TRUE	233,6863597	0	264,9897188	247,569441	0	0	TRUE	31,6%	291,2697243	0	0	TRUE	37,2%
3113	3	782,2672596	Non-Empty	506,6192132	233,8199269	0	0	TRUE	241,6816599	0	243,9966422	279,3822554	0	0	TRUE	35,7%	241,3377716	0	0	TRUE	30,9%
3114	1	1202,170957	Non-Empty	893,8950435	451,5297744	0	0	TRUE	483,3592417	0	409,4151994	361,0499505	0	0	TRUE	30,0%	504,1362077	0	0	TRUE	41,9%
3114	2	1202,170957	Non-Empty	914,3055687	456,4145867	0	0	TRUE	472,7183412	0	418,7634773	369,2938928	0	0	TRUE	30,7%	413,6502217	0	0	TRUE	34,4%
3114	3	1202,170957	Non-Empty	816,554554	294,2265957	0	0	TRUE	246,0933738	0	373,9922802	471,8271135	0	0	TRUE	39,2%	284,3845274	0	0	TRUE	23,7%
3115	1	1090,59795	Empty	538,1561407	362,2659748	96,54511701	0,088524939	FALSE	380,2311595	0,219397988	380,2311595	351,5568967	126,1817795	0,11569963	FALSE	32,2%	443,055417	109,6426741	0,100534458	FALSE	40,6%
3115	2	1090,59795	Empty	547,9675593	317,6205819	96,54511701	0,088524939	FALSE	281,128955	0,219397988	281,128955	357,9663225	126,1817795	0,11569963	FALSE	32,8%	249,9286968	109,6426741	0,100534458	FALSE	22,9%
3115	3	1090,59795	Empty	586,0403012	410,7113929	96,54511701	0,088524939	FALSE	429,2378351	0,219397988	429,2378351	381,0747304	126,1817795	0,11569963	FALSE	34,9%	397,6138358	109,6426741	0,100534458	FALSE	36,5%
3116	1	1550,7739	Empty	701,9724784	467,0941011	205,3396611	0,132411089	FALSE	475,6816685	0,004124333	475,6816685	477,4787328	198,8822818	0,128247117	FALSE	30,8%	445,624684	226,8090782	0,146255414	FALSE	28,7%
3116	2	1550,7739	Empty	773,317277	527,7626869	205,3396611	0,132411089	FALSE	525,6740415	0,004124333	525,6740415	526,0071653	198,8822818	0,128247117	FALSE	33,9%	552,5746081	226,8090782	0,146255414	FALSE	35,6%
3116	3	1550,7739	Empty	805,8819791	555,9171123	205,3396611	0,132411089	FALSE	549,4181902	0,004124333	549,4181902	547,2880021	198,8822818	0,128247117	FALSE	35,3%	552,5746081	226,8090782	0,146255414	FALSE	35,6%
3117	1	930,211517	Empty	484,879974	296,472																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3132	1	1731,008766	Empty	875,8448621	581,0277559	226,8335661	0,131041258	FALSE	610,6515428	0,08699736	610,6515428	548,6384153	259,2229067	0,149752509	FALSE	31,7%	468,8148742	339,0464478	0,195866396	FALSE	27,1%
3132	2	1731,008766	Empty	912,6144623	574,825065	226,8335661	0,131041258	FALSE	561,4765608	0,08699736	561,4765608	571,6712788	259,2229067	0,149752509	FALSE	33,0%	631,096946	339,0464478	0,195866396	FALSE	36,5%
3132	3	1731,008766	Empty	915,8721212	575,1559453	226,8335661	0,131041258	FALSE	558,8806626	0,08699736	558,8806626	610,699072	259,2229067	0,149752509	FALSE	35,3%	631,096946	339,0464478	0,195866396	FALSE	36,5%
3133	1	876,6636062	Non-Empty	654,4473329	297,2144893	0	0	TRUE	296,2299684	0	294,9149944	288,112357	0	0	TRUE	32,9%	255,2311765	0	0	TRUE	29,1%
3133	2	876,6636062	Non-Empty	642,7964466	291,1147944	0	0	TRUE	295,681465	0	289,6647307	282,9831981	0	0	TRUE	32,3%	299,6192072	0	0	TRUE	34,2%
3133	3	876,6636062	Non-Empty	648,164795	288,3343225	0	0	TRUE	284,7521727	0	292,083881	305,5680511	0	0	TRUE	34,9%	321,8132225	0	0	TRUE	36,7%
3134	1	704,2072189	Non-Empty	526,9803673	210,5980195	0	0	TRUE	211,6518132	0	224,0264862	228,375084	0	0	TRUE	32,4%	199,9600745	0	0	TRUE	28,4%
3134	2	704,2072189	Non-Empty	530,9887401	208,6093107	0	0	TRUE	203,6660227	0	225,7304997	230,1121743	0	0	TRUE	32,7%	260,8174885	0	0	TRUE	37,0%
3134	3	704,2072189	Non-Empty	598,5465358	284,9998887	0	0	TRUE	288,889383	0	254,450233	245,7199607	0	0	TRUE	34,9%	243,4296559	0	0	TRUE	34,6%
3135	1	1415,361289	Empty	644,1129096	448,3688532	143,7627693	0,101573196	FALSE	500,5502531	0,304958487	500,5502531	435,7749584	171,0524013	0,120854232	FALSE	30,8%	571,863147	215,6868448	0,152389956	FALSE	40,4%
3135	2	1415,361289	Empty	705,7290143	395,5093004	143,7627693	0,101573196	FALSE	333,2150428	0,304958487	333,2150428	477,4613693	171,0524013	0,120854232	FALSE	33,7%	386,0076242	215,6868448	0,152389956	FALSE	27,3%
3135	3	1415,361289	Empty	809,2957336	571,4831351	143,7627693	0,101573196	FALSE	581,5959929	0,304958487	581,5959929	502,124961	171,0524013	0,120854232	FALSE	35,5%	457,4905176	215,6868448	0,152389956	FALSE	32,3%
3136	1	893,5846127	Non-Empty	667,5271198	299,3449586	0	0	TRUE	312,2018563	0	292,8715268	293,6374227	0	0	TRUE	32,9%	259,7629688	0	0	TRUE	29,1%
3136	2	893,5846127	Non-Empty	646,523875	264,3305806	0	0	TRUE	263,1763451	0	283,6565419	284,3983394	0	0	TRUE	31,8%	374,0586751	0	0	TRUE	41,9%
3136	3	893,5846127	Non-Empty	722,6507947	329,9090735	0	0	TRUE	318,2064113	0	317,056544	315,5488505	0	0	TRUE	35,3%	259,7629688	0	0	TRUE	29,1%
3137	1	725,513755	Empty	407,0712893	265,5936126	45,75573905	0,063066673	FALSE	272,4981367	0,076861501	272,4981367	234,1906751	77,15867657	0,106350398	FALSE	32,3%	290,205502	56,29085172	0,077587573	FALSE	40,0%
3137	2	725,513755	Empty	389,5470398	235,9954372	45,75573905	0,063066673	FALSE	230,8260353	0,076861501	230,8260353	224,1088641	77,15867657	0,106350398	FALSE	30,9%	213,3863985	56,29085172	0,077587573	FALSE	29,4%
3137	3	725,513755	Empty	374,0420281	223,9247052	45,75573905	0,063066673	FALSE	222,1895831	0,076861501	222,1895831	267,2142158	77,15867657	0,106350398	FALSE	36,8%	221,9218545	56,29085172	0,077587573	FALSE	30,6%
3138	1	1136,241189	Empty	610,236761	420,7827666	88,27633193	0,077691544	FALSE	434,3915382	0,229575247	434,3915382	342,1103159	170,9009201	0,150409017	FALSE	30,1%	414,2546	91,05625609	0,080138141	FALSE	36,5%
3138	2	1136,241189	Empty	610,7008118	424,9950598	88,27633193	0,077691544	FALSE	442,3520738	0,229575247	442,3520738	342,3704716	170,9009201	0,150409017	FALSE	30,1%	426,0904457	91,05625609	0,080138141	FALSE	37,5%
3138	3	1136,241189	Empty	524,4919139	290,4633622	88,27633193	0,077691544	FALSE	259,4975765	0,229575247	259,4975765	451,760401	170,9009201	0,150409017	FALSE	39,8%	295,8961428	91,05625609	0,080138141	FALSE	26,0%
3139	1	1400,524758	Empty	745,1313792	530,0173042	189,5039324	0,135309234	FALSE	521,7036562	0,016306939	521,7036562	482,2448895	222,6284508	0,158960739	FALSE	34,4%	461,875186	242,9981543	0,173505076	FALSE	33,0%
3139	2	1400,524758	Empty	641,5850313	436,7640039	189,5039324	0,135309234	FALSE	438,7434035	0,016306939	438,7434035	415,2302683	222,6284508	0,158960739	FALSE	29,6%	491,6735851	242,9981543	0,173505076	FALSE	35,1%
3139	3	1400,524758	Empty	634,209628	433,7434494	189,5039324	0,135309234	FALSE	440,0776978	0,016306939	440,0776978	503,0495998	222,6284508	0,158960739	FALSE	35,9%	446,9759864	242,9981543	0,173505076	FALSE	31,9%
3140	1	1606,234359	Empty	749,6106967	508,4290754	216,9181834	0,135047655	FALSE	501,6442821	0,061583173	501,6442821	494,68047	222,1775148	0,138321979	FALSE	30,8%	524,1396329	301,230445	0,18753829	FALSE	32,6%
3140	2	1606,234359	Empty	818,9827186	573,8920394	216,9181834	0,135047655	FALSE	563,1981882	0,061583173	563,1981882	540,4602121	222,1775148	0,138321979	FALSE	33,6%	642,4937435	301,230445	0,18753829	FALSE	40,0%
3140	3	1606,234359	Empty	740,8314274	523,913244	216,9181834	0,135047655	FALSE	541,3918886	0,061583173	541,3918886	571,0936767	222,1775148	0,138321979	FALSE	35,6%	439,6009824	301,230445	0,18753829	FALSE	27,4%
3141	1	949,814076	Non-Empty	527,1523682	255,7358957	0	0	TRUE	267,3848038	0	278,3178965	271,8744144	0	0	TRUE	28,6%	387,4241626	5,075420679	0,005343594	FALSE	40,8%
3141	2	949,814076	Non-Empty	626,7113356	350,0524259	0	0	TRUE	356,4588967	0	330,8815271	323,2211171	0	0	TRUE	34,0%	287,4437335	5,075420679	0,005343594	FALSE	30,3%
3141	3	949,814076	Non-Empty	645,146514	344,0257544	0	0	TRUE	325,9703755	0	340,6146524	354,7185445	0	0	TRUE	37,3%	274,9461799	5,075420679	0,005343594	FALSE	28,9%
3142	1	750,9954421	Non-Empty	523,0924886	225,4250062	0	0	TRUE	212,640925	0	244,6617507	231,726372	0	0	TRUE	30,9%	281,6232908	0	0	TRUE	37,5%
3142	2	750,9954421	Non-Empty	571,185058	284,7831033	0	0	TRUE	283,2645497	0	267,155693	253,0310492	0	0	TRUE	33,7%	234,6860757	0	0	TRUE	31,3%
3142	3	750,9954421	Non-Empty	511,368099	240,7873326	0	0	TRUE	255,0899674	0	239,1779984	266,2380209	0	0	TRUE	35,5%	234,6860757	0	0	TRUE	31,3%
3143	1	833,191127	Non-Empty	622,9152332	255,2494738	0	0	TRUE	265,6962933	0	263,7864454	258,7925636	0	0	TRUE	31,1%	315,735585	0	0	TRUE	37,9%
3143	2	833,191127	Non-Empty	678,8483076	287,6285882	0	0	TRUE	274,5214477	0	287,4724721	282,0301775	0	0	TRUE	33,8%	236,8016887	0	0	TRUE	28,4%
3143	3	833,191127	Non-Empty	665,7653229	290,313065	0	0	TRUE	292,973386	0	281,9322095	292,3683859	0	0	TRUE	35,1%	280,6538533	0	0	TRUE	33,7%
3144	1	903,8534215	Non-Empty	688,5241316	307,4356515	0	0	TRUE	308,0642111	0	303,7206018	303,6549189	0	0	TRUE	33,6%	331,4129212	0	0	TRUE	36,7%
3144	2	903,8534215	Non-Empty	649,4356714	274,1668901	0	0	TRUE	280,6151484	0	286,4779663	286,4160123	0	0	TRUE	31,7%	271,1560265	0	0	TRUE	30,0%
3144	3	903,8534215	Non-Empty	711,0447373	322,2508799	0	0	TRUE	313,1740621	0	313,6548534	313,7824903	0	0	TRUE	34,7%	301,2844738	0	0	TRUE	33,3%
3145	1	1393,364589	Empty	620,4701565	478,838479	93,79480219	0,067315334	FALSE	568,8644644	0,390127605	568,8644644	367,7262482	204,9024019	0,147055841	FALSE	26,4%	511,3264546	61,30219549	0,043995804	FALSE	36,7%
3145	2	1393,364589	Empty	729,7541811	466,9040746	93,79480219	0,067315334	FALSE	435,7208931	0,390127605	435,7208931	432,4942374	204,9024019	0,147055841	FALSE	31,0%	460,1938092	61,30219549	0,043995804	FALSE	33,0%
3145	3	1393,364589	Empty	738,1410263	447,6266663	93,79480219	0,067315334	FALSE	388,7792314	0,390127605	388,7792314	593,1441033	204,9024019	0,147055841	FALSE	42,6%	421,8443251	61,30219549	0,043995804	FALSE	30,3%
3146	1	1123,032746	Non-Empty	812,1740922	351,2031425	0	0	TRUE	365,8989802	0	357,6808857	355,2003751	0	0	TRUE	31,6%	431,9356714	0	0	TRUE	38,5%
3146	2	1123,032746	Non-Empty	860,2910683	377,9178869	0	0	TRUE	371,2114928	0	378,8715674	376,2440998	0	0	TRUE	33,5%	403,1399599	0	0	TRUE	35,9%
3146	3	1123,032746	Non-Empty	877,567947	393,9117161	0	0	TRUE	385,9222725	0	386,4802924	391,5882707	0	0	TRUE	34,9%	287,9571142	0	0	TRUE	25,6%
3147	1	1193,677382	Empty	683,8390911	425,2463702	103,4335418	0,08665117	FALSE	433,0376821	0,05396756	433,0376821	399,9271663	128,7527457	0,107862265	FALSE	33,5%	467,6261908	136,135628	0,114047254	FALSE	39,2%
3147	2	1193,677382	Empty	644,2656102	376,7306061	103,4335418	0,08665117	FALSE	375,5796347	0,05396756	375,5796347	376,7835492	128,7527457	0,107862265	FALSE	31,6%	381,4845241	136,135628	0,114047254	FALSE	32,0%
3147	3	1193,677382	Empty	664,7247788	391,7004055	103,4335418	0,08665117	FALSE	385,060065	0,05396756	385,060065	416,9666663	128,7527457	0,107862265	FALSE	34,9%	344,5666669	136,135628	0,114047254	FALSE	28,9%
3148	1	1141,207326	Empty	577,2711335	422,3630703																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3163	1	1044,334306	Non-Empty	688,9301316	329,8596111	0	0	TRUE	318,6832919	0	344,5725786	341,5439227	0	0	TRUE	32,7%	378,7146384	0	0	TRUE	36,3%
3163	2	1044,334306	Non-Empty	686,3849874	333,2615543	0	0	TRUE	328,0323227	0	343,2996093	340,2821423	0	0	TRUE	32,6%	332,8098338	0	0	TRUE	31,9%
3163	3	1044,334306	Non-Empty	712,701791	381,2131406	0	0	TRUE	397,6186914	0	356,4621181	362,508241	0	0	TRUE	34,7%	332,8098338	0	0	TRUE	31,9%
3164	1	1241,494267	Non-Empty	921,1083465	395,222511	0	0	TRUE	385,787318	0	409,7505387	413,1246498	0	0	TRUE	33,3%	310,3735668	0	0	TRUE	25,0%
3164	2	1241,494267	Non-Empty	914,3424605	396,0131922	0	0	TRUE	394,1345663	0	406,7407674	410,0900945	0	0	TRUE	33,0%	445,3185959	0	0	TRUE	35,9%
3164	3	1241,494267	Non-Empty	955,3953876	450,258564	0	0	TRUE	461,5723829	0	425,0029611	418,2795229	0	0	TRUE	33,7%	485,8021046	0	0	TRUE	39,1%
3165	1	1332,281766	Empty	657,4295263	453,0200852	195,2570463	0,146558372	FALSE	443,6055581	0,097970076	443,6055581	436,9571834	178,9872501	0,134346393	FALSE	32,8%	411,0230981	204,9213354	0,15381231	FALSE	30,9%
3165	2	1332,281766	Empty	648,9037931	440,4052354	195,2570463	0,146558372	FALSE	426,9015917	0,097970076	426,9015917	431,2905983	178,9872501	0,134346393	FALSE	32,4%	481,8891495	204,9213354	0,15381231	FALSE	36,2%
3165	3	1332,281766	Empty	610,9331889	438,8564458	195,2570463	0,146558372	FALSE	461,7746166	0,097970076	461,7746166	464,0339846	178,9872501	0,134346393	FALSE	34,8%	439,3695187	204,9213354	0,15381231	FALSE	33,0%
3166	1	854,0984502	Non-Empty	646,3651506	273,9089958	0	0	TRUE	270,1071864	0	281,6541609	266,0356258	0	0	TRUE	31,1%	367,5866748	0	0	TRUE	43,0%
3166	2	854,0984502	Non-Empty	678,6663569	318,4458284	0	0	TRUE	326,8796455	0	295,7294389	279,330389	0	0	TRUE	32,7%	227,0388285	0	0	TRUE	26,6%
3166	3	854,0984502	Non-Empty	635,0299791	261,743626	0	0	TRUE	257,1116183	0	276,7148504	308,7324353	0	0	TRUE	36,1%	259,4729469	0	0	TRUE	30,4%
3167	1	977,1343817	Non-Empty	698,8126055	396,8324265	0	0	TRUE	417,3252689	0	351,1519957	328,8120719	9,000533586	0,009211152	FALSE	33,7%	303,9973632	33,8152423	0,034606542	FALSE	31,1%
3167	2	977,1343817	Non-Empty	610,5744065	279,2727001	0	0	TRUE	270,4440151	0	306,8124697	287,2933803	9,000533586	0,009211152	FALSE	29,4%	347,4255579	33,8152423	0,034606542	FALSE	35,6%
3167	3	977,1343817	Non-Empty	635,1664339	301,0292551	0	0	TRUE	289,3650977	0	319,1699164	361,0289295	9,000533586	0,009211152	FALSE	36,9%	325,7114606	33,8152423	0,034606542	FALSE	33,3%
3168	1	1235,102158	Empty	538,9104524	375,6627108	205,3088447	0,166228229	FALSE	406,8721677	0,108776459	406,8721677	366,1034272	214,8681282	0,1739679	FALSE	29,6%	370,5306475	210,4409079	0,170383402	FALSE	30,0%
3168	2	1235,102158	Empty	634,8200886	425,9754443	205,3088447	0,166228229	FALSE	411,5879985	0,108776459	411,5879985	431,2586795	214,8681282	0,1739679	FALSE	34,9%	452,8707914	210,4409079	0,170383402	FALSE	36,7%
3168	3	1235,102158	Empty	644,7432129	433,4640033	205,3088447	0,166228229	FALSE	416,6419922	0,108776459	416,6419922	437,7400516	214,8681282	0,1739679	FALSE	35,4%	411,7007194	210,4409079	0,170383402	FALSE	33,3%
3169	1	848,6193263	Non-Empty	687,8075826	289,0340848	0	0	TRUE	281,9015811	0	288,4480374	280,6345066	0	0	TRUE	33,1%	286,5467855	0	0	TRUE	33,8%
3169	2	848,6193263	Non-Empty	676,0422111	288,2291634	0	0	TRUE	292,0571097	0	283,5139564	275,8340809	0	0	TRUE	32,5%	242,4626647	0	0	TRUE	28,6%
3169	3	848,6193263	Non-Empty	659,6925147	271,3560781	0	0	TRUE	274,6606356	0	276,6573326	292,1507388	0	0	TRUE	34,4%	319,6098762	0	0	TRUE	37,7%
3170	1	1445,884137	Empty	678,5270946	496,4978507	227,4255426	0,157291678	FALSE	510,7418919	0,090196848	510,7418919	460,4876501	263,4357431	0,182196994	FALSE	31,8%	413,1097535	310,8136397	0,214964416	FALSE	28,6%
3170	2	1445,884137	Empty	672,3368305	479,0724642	227,4255426	0,157291678	FALSE	482,0813831	0,090196848	482,0813831	456,2865796	263,4357431	0,182196994	FALSE	31,6%	486,8793524	310,8136397	0,214964416	FALSE	33,7%
3170	3	1445,884137	Empty	683,8400679	470,3138225	227,4255426	0,157291678	FALSE	543,0608623	0,090196848	543,0608623	529,1099076	263,4357431	0,182196994	FALSE	36,6%	545,8950314	310,8136397	0,214964416	FALSE	37,8%
3171	1	897,4448653	Non-Empty	659,9250415	378,3225233	0	0	TRUE	390,7769568	0	332,7945091	292,3810791	0	0	TRUE	32,6%	256,4128187	32,24274337	0,035927269	FALSE	28,6%
3171	2	897,4448653	Non-Empty	608,4590627	289,3585042	0	0	TRUE	264,3148974	0	306,8406596	269,5789766	0	0	TRUE	30,0%	285,9989131	32,24274337	0,035927269	FALSE	31,9%
3171	3	897,4448653	Non-Empty	511,2316163	229,7638379	0	0	TRUE	242,3530111	0	257,8096967	335,4848096	0	0	TRUE	37,4%	355,0331335	32,24274337	0,035927269	FALSE	39,6%
3172	1	1080,810286	Non-Empty	728,4919129	292,386504	0	0	TRUE	256,8009027	0	344,9754655	336,5440216	0	0	TRUE	31,1%	313,131952	0	0	TRUE	29,0%
3172	2	1080,810286	Non-Empty	778,4934749	396,3562995	0	0	TRUE	414,7389316	0	368,6535762	359,6434226	0	0	TRUE	33,3%	383,839167	0	0	TRUE	35,5%
3172	3	1080,810286	Non-Empty	775,3843207	392,0674824	0	0	TRUE	409,2704517	0	367,1812442	384,6228417	0	0	TRUE	35,6%	383,839167	0	0	TRUE	35,5%
3173	1	953,2129127	Non-Empty	674,5558497	352,3479196	0	0	TRUE	353,5600933	0	334,288691	313,5907559	0	0	TRUE	32,9%	317,7376376	0	0	TRUE	33,3%
3173	2	953,2129127	Non-Empty	653,3579729	322,3282983	0	0	TRUE	314,7187275	0	323,783689	303,7361853	0	0	TRUE	31,9%	279,6091211	0	0	TRUE	29,3%
3173	3	953,2129127	Non-Empty	595,5594017	278,5366948	0	0	TRUE	284,9340918	0	295,1405327	335,8859715	0	0	TRUE	35,2%	355,8661541	0	0	TRUE	37,3%
3174	1	613,8386794	Non-Empty	512,8765532	239,3370857	0	0	TRUE	225,9444103	0	225,796597	212,310103	0	0	TRUE	34,6%	233,103296	0	0	TRUE	38,0%
3174	2	613,8386794	Non-Empty	436,9604712	188,3648055	0	0	TRUE	199,9159319	0	192,3741431	180,8839224	0	0	TRUE	29,5%	209,7929664	0	0	TRUE	34,2%
3174	3	613,8386794	Non-Empty	444,4420316	186,1367883	0	0	TRUE	187,9783372	0	195,6679394	220,644654	0	0	TRUE	35,9%	170,9424171	0	0	TRUE	27,8%
3175	1	1273,274229	Empty	599,5044729	434,9918741	164,5125989	0,129204373	FALSE	458,2136632	0,115170848	458,2136632	397,5126283	201,9918446	0,158639702	FALSE	31,2%	498,2377417	235,5664106	0,185008386	FALSE	39,1%
3175	2	1273,274229	Empty	601,3813493	408,0566845	164,5125989	0,129204373	FALSE	402,4664076	0,115170848	402,4664076	398,7571262	201,9918446	0,158639702	FALSE	31,3%	456,7179299	235,5664106	0,185008386	FALSE	35,9%
3175	3	1273,274229	Empty	635,5915705	430,2256703	164,5125989	0,129204373	FALSE	412,594158	0,115170848	412,594158	477,0044743	201,9918446	0,158639702	FALSE	37,5%	318,3185572	235,5664106	0,185008386	FALSE	25,0%
3176	1	1146,679799	Empty	534,9656688	392,8519575	152,4489458	0,132948139	FALSE	415,3174405	0,124996143	415,3174405	350,9055384	194,3953649	0,1695289	FALSE	30,6%	386,3812367	158,9196666	0,138591145	FALSE	33,7%
3176	2	1146,679799	Empty	555,0122318	381,6338823	152,4489458	0,132948139	FALSE	372,8347271	0,124996143	372,8347271	364,0548868	194,3953649	0,1695289	FALSE	31,7%	386,3812367	158,9196666	0,138591145	FALSE	33,7%
3176	3	1146,679799	Empty	550,4394813	372,1939593	152,4489458	0,132948139	FALSE	358,5276316	0,124996143	358,5276316	431,7193741	194,3953649	0,1695289	FALSE	37,6%	373,9173258	158,9196666	0,138591145	FALSE	32,6%
3177	1	1136,906038	Empty	578,6388155	380,5707782	135,1869634	0,118907772	FALSE	377,9336448	0,061710447	377,9336448	366,8065488	158,417999	0,13934133	FALSE	32,3%	397,2322301	215,3925182	0,189454987	FALSE	34,9%
3177	2	1136,906038	Empty	567,2748035	382,8337918	135,1869634	0,118907772	FALSE	393,823684	0,061710447	393,823684	359,6027562	158,417999	0,13934133	FALSE	31,6%	465,7205456	215,3925182	0,189454987	FALSE	41,0%
3177	3	1136,906038	Empty	577,2851305	373,5014679	135,1869634	0,118907772	FALSE	365,1487091	0,061710447	365,1487091	410,4967328	158,417999	0,13934133	FALSE	36,1%	273,9532621	215,3925182	0,189454987	FALSE	24,1%
3178	1	1292,574736	Empty	658,0750594	442,6077623	151,7086497	0,117369345	FALSE	461,8280813	0,08966646	461,8280813	409,8041255	184,5122865	0,142747867	FALSE	31,7%	435,541487	173,4111465	0,134159474	FALSE	33,7%
3178	2	1292,574736	Empty	667,97287	426,7753276	151,7086497	0,117369345	FALSE	420,2654014	0,08966646	420,2654014	415,9678048	184,5122865	0,142747867	FALSE	32,2%	379,3425855	173,4111465	0,134159474	FALSE	29,3%
3178	3	1292,574736	Empty	670,5896548	423,1916458	151,7086497	0,117369345	FALSE	410,4812529	0,08966646	410,4812529	466,8028053	184,5122865	0,142747867	FALSE	36,1%	477,6906632	173,4111465	0,134159474	FALSE	37,0%
3179	1	843,608339	Non-Empty	664,6815728	290,8075055	0	0	TRUE	313,5192111	0	275,7649198	264,389049</									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3194	1	708,8122186	Non-Empty	454,6733991	211,0618875	0	0	TRUE	232,5660294	0	214,2579491	209,5628581	0	0	TRUE	29,6%	255,7569861	0	0	TRUE	36,1%
3194	2	708,8122186	Non-Empty	518,7491885	241,8275212	0	0	TRUE	230,0215074	0	244,4526938	239,0959374	0	0	TRUE	33,7%	226,5276163	0	0	TRUE	32,0%
3194	3	708,8122186	Non-Empty	530,7365913	255,9228099	0	0	TRUE	246,2246818	0	250,1015757	260,1534231	0	0	TRUE	36,7%	226,5276163	0	0	TRUE	32,0%
3195	1	954,0854002	Non-Empty	566,0343781	226,1608598	0	0	TRUE	153,5013148	0,077399427	292,9911632	299,9053667	38,13765175	0,039972996	FALSE	31,4%	267,1439121	0	0	TRUE	28,0%
3195	2	954,0854002	Non-Empty	585,0745344	369,9901382	0	0	TRUE	422,1197153	0,077399427	348,1311779	309,9935262	38,13765175	0,039972996	FALSE	32,5%	362,5524521	0	0	TRUE	38,0%
3195	3	954,0854002	Non-Empty	604,6184074	357,9344021	0	0	TRUE	378,4643701	0,077399427	312,963059	344,1865072	38,13765175	0,039972996	FALSE	36,1%	324,3890361	0	0	TRUE	34,0%
3196	1	886,021834	Non-Empty	686,3214502	322,900532	0	0	TRUE	334,7447801	0	302,2619301	299,9059188	0	0	TRUE	33,8%	327,8280786	0	0	TRUE	37,0%
3196	2	886,021834	Non-Empty	622,3602109	222,4393516	0	0	TRUE	197,7836585	0	274,0928446	271,9564001	0	0	TRUE	30,7%	230,3656768	0	0	TRUE	26,0%
3196	3	886,021834	Non-Empty	703,1356716	340,6819504	0	0	TRUE	353,4933955	0	309,6670593	314,1595151	0	0	TRUE	35,5%	327,8280786	0	0	TRUE	37,0%
3197	1	1305,416232	Empty	673,5307027	456,1616151	153,5015507	0,117588204	FALSE	464,6964999	0,053554796	464,6964999	429,4032039	180,259962	0,138086196	FALSE	32,9%	412,236705	232,1333166	0,177823219	FALSE	31,6%
3197	2	1305,416232	Empty	644,2981338	414,2083279	153,5015507	0,117588204	FALSE	410,0224945	0,053554796	410,0224945	410,7662528	180,259962	0,138086196	FALSE	31,5%	549,64894	232,1333166	0,177823219	FALSE	42,1%
3197	3	1305,416232	Empty	665,2993133	435,0462895	153,5015507	0,117588204	FALSE	430,6972381	0,053554796	430,6972381	465,2467758	180,259962	0,138086196	FALSE	35,6%	343,5305875	232,1333166	0,177823219	FALSE	26,3%
3198	1	761,4761769	Non-Empty	629,6097206	254,3799107	0	0	TRUE	249,4278931	0	256,0649237	249,1422154	0	0	TRUE	32,7%	267,7718424	0	0	TRUE	35,2%
3198	2	761,4761769	Non-Empty	623,7683094	262,650791	0	0	TRUE	271,8110649	0	253,6891972	246,8307166	0	0	TRUE	32,4%	251,0361023	0	0	TRUE	33,0%
3198	3	761,4761769	Non-Empty	618,9315236	244,4454752	0	0	TRUE	240,2372189	0	251,722056	265,5032449	0	0	TRUE	34,9%	242,6682322	0	0	TRUE	31,9%
3199	1	1464,881328	Empty	674,0997705	456,2163591	214,5126997	0,146436913	FALSE	465,0504522	0,031373575	465,0504522	471,8880616	238,1705152	0,162586901	FALSE	32,2%	452,1238668	218,605192	0,149230649	FALSE	30,9%
3199	2	1464,881328	Empty	696,9239091	466,2088404	214,5126997	0,146436913	FALSE	462,2112763	0,031373575	462,2112763	487,8655756	238,1705152	0,162586901	FALSE	33,3%	452,1238668	218,605192	0,149230649	FALSE	30,9%
3199	3	1464,881328	Empty	774,0101623	542,4561288	214,5126997	0,146436913	FALSE	537,6195998	0,031373575	537,6195998	505,1276912	238,1705152	0,162586901	FALSE	34,5%	560,6335948	218,605192	0,149230649	FALSE	38,3%
3200	1	816,6141744	Non-Empty	656,3845781	292,6899643	0	0	TRUE	275,8217902	0	288,6300297	277,39295	0	0	TRUE	34,0%	192,6842434	0	0	TRUE	23,6%
3200	2	816,6141744	Non-Empty	601,991651	250,5407501	0	0	TRUE	245,916289	0	264,7119904	254,4060989	0	0	TRUE	31,2%	311,9649655	0	0	TRUE	38,2%
3200	3	816,6141744	Non-Empty	598,7172647	273,38346	0	0	TRUE	294,8760951	0	263,2721543	284,8151255	0	0	TRUE	34,9%	311,9649655	0	0	TRUE	38,2%
3201	1	1405,522625	Empty	718,6401048	471,1633172	211,8792312	0,150747649	FALSE	468,3208288	0,015192583	468,3208288	471,3039746	213,3562669	0,151798529	FALSE	33,5%	595,8193737	280,833402	0,199807102	FALSE	42,4%
3201	2	1405,522625	Empty	697,0119745	458,9566867	211,8792312	0,150747649	FALSE	464,8156982	0,015192583	464,8156982	457,119651	213,3562669	0,151798529	FALSE	32,5%	412,4903356	280,833402	0,199807102	FALSE	29,3%
3201	3	1405,522625	Empty	723,7734436	475,7626213	211,8792312	0,150747649	FALSE	472,3860982	0,015192583	472,3860982	477,0989996	213,3562669	0,151798529	FALSE	33,9%	397,2129158	280,833402	0,199807102	FALSE	28,3%
3202	1	954,7392413	Non-Empty	585,2989146	281,0556635	0	0	TRUE	276,0910028	0	301,6384427	290,6857251	5,379187301	0,005634195	FALSE	30,4%	402,6008849	45,22024991	0,04736398	FALSE	42,2%
3202	2	954,7392413	Non-Empty	659,2499361	363,6182862	0	0	TRUE	367,2652266	0	339,7496887	327,4131232	5,379187301	0,005634195	FALSE	34,3%	287,5720606	45,22024991	0,04736398	FALSE	30,1%
3202	3	954,7392413	Non-Empty	608,0261617	310,0652916	0	0	TRUE	311,3830118	0	313,3511099	336,640393	5,379187301	0,005634195	FALSE	35,3%	264,5662958	45,22024991	0,04736398	FALSE	27,7%
3203	1	1503,772393	Empty	723,4731323	494,5623485	205,6631292	0,136764799	FALSE	505,6420431	0,082214458	505,6420431	468,2986251	239,0193264	0,158946479	FALSE	31,1%	457,6698587	242,555619	0,161298093	FALSE	30,4%
3203	2	1503,772393	Empty	755,3035722	524,3256056	205,6631292	0,136764799	FALSE	533,3381173	0,082214458	533,3381173	488,9022255	239,0193264	0,158946479	FALSE	32,5%	523,0512671	242,555619	0,161298093	FALSE	34,8%
3203	3	1503,772393	Empty	744,9671236	484,8844389	205,6631292	0,136764799	FALSE	464,7922325	0,082214458	464,7922325	546,5715424	239,0193264	0,158946479	FALSE	36,3%	523,0512671	242,555619	0,161298093	FALSE	34,8%
3204	1	1034,413185	Empty	510,6171172	341,8134101	86,29858558	0,083427577	FALSE	372,3856353	0,19334277	372,3856353	308,7386995	119,3732961	0,115401948	FALSE	29,8%	389,1851587	77,24857835	0,074678648	FALSE	37,6%
3204	2	1034,413185	Empty	575,229852	342,0720747	86,29858558	0,083427577	FALSE	308,2902297	0,19334277	308,2902297	347,806038	119,3732961	0,115401948	FALSE	33,6%	286,7680117	77,24857835	0,074678648	FALSE	27,7%
3204	3	1034,413185	Empty	546,6940127	350,5277002	86,29858558	0,083427577	FALSE	353,73732	0,19334277	353,73732	377,8684475	119,3732961	0,115401948	FALSE	36,5%	358,4600146	77,24857835	0,074678648	FALSE	34,7%
3205	1	1238,299683	Empty	646,3548542	420,1854907	163,7190719	0,132212803	FALSE	405,1880528	0,09770291	405,1880528	413,0276771	191,0190261	0,154259125	FALSE	33,4%	422,4787155	177,7594701	0,143551252	FALSE	34,1%
3205	2	1238,299683	Empty	595,1494081	407,6068026	163,7190719	0,132212803	FALSE	431,2361229	0,09770291	431,2361229	380,3068484	191,0190261	0,154259125	FALSE	30,7%	451,6151786	177,7594701	0,143551252	FALSE	36,5%
3205	3	1238,299683	Empty	630,3111981	410,50739	163,7190719	0,132212803	FALSE	401,8755077	0,09770291	401,8755077	444,9651578	191,0190261	0,154259125	FALSE	35,9%	364,2057892	177,7594701	0,143551252	FALSE	29,4%
3206	1	746,0723866	Non-Empty	677,8901535	280,7342373	0	0	TRUE	274,5322816	0	263,5604216	258,0137997	0	0	TRUE	34,6%	248,6907955	0	0	TRUE	33,3%
3206	2	746,0723866	Non-Empty	600,8799061	220,9562603	0	0	TRUE	231,986575	0	233,6192089	228,702699	0	0	TRUE	30,7%	265,2701819	0	0	TRUE	35,6%
3206	3	746,0723866	Non-Empty	640,1642083	244,381889	0	0	TRUE	239,55353	0	248,8927561	259,3558878	0	0	TRUE	34,8%	232,1114092	0	0	TRUE	31,1%
3207	1	998,6438976	Non-Empty	749,0672753	339,3956772	0	0	TRUE	342,4723951	0	334,4160193	309,5035477	0	0	TRUE	31,0%	329,223263	0	0	TRUE	33,0%
3207	2	998,6438976	Non-Empty	810,4153255	373,2410962	0	0	TRUE	348,8151828	0	361,8044415	334,851657	0	0	TRUE	33,5%	296,3009367	0	0	TRUE	29,7%
3207	3	998,6438976	Non-Empty	677,4062446	286,0071242	0	0	TRUE	307,3563197	0	302,4234368	354,288693	0	0	TRUE	35,5%	373,119698	0	0	TRUE	37,4%
3208	1	887,4352004	Empty	409,6711625	299,5636051	140,9415074	0,158818928	FALSE	305,6944495	0,064509399	305,6944495	276,8276608	163,6774518	0,184438764	FALSE	31,2%	307,8856818	155,0688994	0,174738279	FALSE	34,7%
3208	2	887,4352004	Empty	424,8112725	308,2512354	140,9415074	0,158818928	FALSE	307,9296	0,064509399	307,9296	287,0583082	163,6774518	0,184438764	FALSE	32,3%	325,9966042	155,0688994	0,174738279	FALSE	36,7%
3208	3	887,4352004	Empty	401,6679708	279,6203599	140,9415074	0,158818928	FALSE	273,8111508	0,064509399	273,8111508	323,5492314	163,6774518	0,184438764	FALSE	36,5%	253,5529144	155,0688994	0,174738279	FALSE	28,6%
3209	1	812,3708664	Non-Empty	568,1100411	288,1695418	0	0	TRUE	278,9134644	0	284,1105578	266,3440799	0	0	TRUE	32,8%	203,0927166	21,67072199	0,026675898	FALSE	25,0%
3209	2	812,3708664	Non-Empty	561,9578901	280,4616833	0	0	TRUE	269,6498984	0	281,0338809	263,4597989	0	0	TRUE	32,4%	319,1456975	21,67072199	0,026675898	FALSE	39,3%
3209	3	812,3708664	Non-Empty	494,3562008	243,7396414	0	0	TRUE	263,8075037	0	247,2264277	282,5669876	0	0	TRUE	34,8%	290,1324523	21,67072199	0,026675898	FALSE	35,7%
3210	1	1025,416151	Non-Empty	760,8914925	329																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3225	1	957,3521456	Non-Empty	680,1644233	316,7135162	0	0	TRUE	337,7145505	0	308,5016399	297,1811653	0	0	TRUE	31,0%	309,4471582	0	0	TRUE	32,3%
3225	2	957,3521456	Non-Empty	726,4352395	334,4833505	0	0	TRUE	326,9834028	0	329,4886575	317,3980637	0	0	TRUE	33,2%	319,1173819	0	0	TRUE	33,3%
3225	3	957,3521456	Non-Empty	704,1083066	306,1552788	0	0	TRUE	292,6541923	0	319,3618482	342,7729165	0	0	TRUE	35,8%	328,7876056	0	0	TRUE	34,3%
3226	1	935,9276328	Non-Empty	791,3305018	351,1080716	0	0	TRUE	326,6228363	0	339,2491315	333,0092634	0	0	TRUE	35,6%	347,3545854	0	0	TRUE	37,1%
3226	2	935,9276328	Non-Empty	615,8517496	246,5805654	0	0	TRUE	293,046576	0	264,0201164	259,1639486	0	0	TRUE	27,7%	299,110893	0	0	TRUE	32,0%
3226	3	935,9276328	Non-Empty	775,9569659	338,2389958	0	0	TRUE	316,2582205	0	332,658385	343,7544209	0	0	TRUE	36,7%	289,4621545	0	0	TRUE	30,9%
3227	1	680,9881254	Non-Empty	547,8347638	228,6508195	0	0	TRUE	220,1528891	0	231,2822636	237,0074149	0	0	TRUE	34,8%	229,4633901	0	0	TRUE	33,7%
3227	2	680,9881254	Non-Empty	475,2024721	181,7713655	0	0	TRUE	199,0262728	0	200,6187097	205,5848166	0	0	TRUE	30,2%	236,8654349	0	0	TRUE	34,8%
3227	3	680,9881254	Non-Empty	590,008931	270,5659404	0	0	TRUE	261,8089635	0	249,0871521	238,3958939	0	0	TRUE	35,0%	214,6593004	0	0	TRUE	31,5%
3228	1	1452,96593	Empty	631,4127382	456,905645	224,3270535	0,154392508	FALSE	485,1777903	0,094172084	485,1777903	435,9091809	245,3235176	0,168843269	FALSE	30,0%	421,8288182	259,4038803	0,178534042	FALSE	29,0%
3228	2	1452,96593	Empty	707,2391669	490,6502946	224,3270535	0,154392508	FALSE	476,8406607	0,094172084	476,8406607	488,2575649	245,3235176	0,168843269	FALSE	33,6%	499,9452661	259,4038803	0,178534042	FALSE	34,4%
3228	3	1452,96593	Empty	722,6517396	505,4099899	224,3270535	0,154392508	FALSE	490,9474785	0,094172084	490,9474785	528,7991837	245,3235176	0,168843269	FALSE	36,4%	531,1918452	259,4038803	0,178534042	FALSE	36,6%
3229	1	1081,398601	Non-Empty	793,4046839	328,6995492	0	0	TRUE	341,6886025	0	341,2181914	343,2498766	0	0	TRUE	31,7%	255,1614678	0	0	TRUE	23,6%
3229	2	1081,398601	Non-Empty	852,7043072	365,2037214	0	0	TRUE	355,3973236	0	366,7210787	368,9046135	0	0	TRUE	34,1%	376,6669286	0	0	TRUE	34,8%
3229	3	1081,398601	Non-Empty	868,3721742	387,4953308	0	0	TRUE	384,3126753	0	373,4593313	369,2441114	0	0	TRUE	34,1%	449,5702051	0	0	TRUE	41,6%
3230	1	851,1575318	Non-Empty	740,7935735	321,898307	0	0	TRUE	296,963429	0	310,1426601	306,4440265	0	0	TRUE	36,0%	300,4085406	0	0	TRUE	35,3%
3230	2	851,1575318	Non-Empty	564,0686956	221,5700652	0	0	TRUE	273,0318233	0	236,1545402	233,3382585	0	0	TRUE	27,4%	290,3949226	0	0	TRUE	34,1%
3230	3	851,1575318	Non-Empty	728,1764282	307,6891596	0	0	TRUE	281,1622795	0	304,8603316	311,3752468	0	0	TRUE	36,6%	260,3540686	0	0	TRUE	30,6%
3231	1	842,0271501	Non-Empty	572,5238998	259,3771593	0	0	TRUE	272,7261286	0	264,6592854	260,9554214	0	0	TRUE	31,0%	280,6757167	0	0	TRUE	33,3%
3231	2	842,0271501	Non-Empty	615,701823	287,7152966	0	0	TRUE	286,2244801	0	284,6190431	280,6358455	0	0	TRUE	33,3%	262,5676059	0	0	TRUE	31,2%
3231	3	842,0271501	Non-Empty	633,2885569	294,9346942	0	0	TRUE	283,0765414	0	292,7488215	300,4358832	0	0	TRUE	35,7%	298,7838274	0	0	TRUE	35,5%
3232	1	924,8306087	Non-Empty	638,6816013	235,2406714	0	0	TRUE	146,5508621	0	316,0223422	307,7574074	0	0	TRUE	33,3%	218,7771332	0	0	TRUE	23,7%
3232	2	924,8306087	Non-Empty	629,798472	349,986651	0	0	TRUE	384,9259506	0	311,6269324	303,4769508	0	0	TRUE	32,8%	318,2212847	0	0	TRUE	34,4%
3232	3	924,8306087	Non-Empty	600,6038974	339,6032863	0	0	TRUE	393,353796	0	297,1813341	313,5962505	0	0	TRUE	33,9%	387,8321908	0	0	TRUE	41,9%
3233	1	868,6279516	Non-Empty	676,2108408	331,4289103	0	0	TRUE	328,7546227	0	309,9687931	298,5263564	0	0	TRUE	34,4%	380,7684171	0	0	TRUE	43,8%
3233	2	868,6279516	Non-Empty	596,3087634	257,5306181	0	0	TRUE	260,8601158	0	273,3424201	263,2520387	0	0	TRUE	30,3%	237,9802607	0	0	TRUE	27,4%
3233	3	868,6279516	Non-Empty	622,4312763	279,6684232	0	0	TRUE	279,013213	0	285,3167383	306,8495565	0	0	TRUE	35,3%	249,8792737	0	0	TRUE	28,8%
3234	1	1082,868482	Empty	541,5292766	342,21477716	137,3602114	0,126848471	FALSE	318,9508799	0,220781609	318,9508799	344,8470825	188,3793535	0,173963281	FALSE	31,8%	421,1155208	205,840216	0,190087919	FALSE	38,9%
3234	2	1082,868482	Empty	518,6688886	381,3086772	137,3602114	0,126848471	FALSE	419,9990792	0,220781609	419,9990792	330,2895351	188,3793535	0,173963281	FALSE	30,5%	312,8286726	205,840216	0,190087919	FALSE	28,9%
3234	3	1082,868482	Empty	550,8221569	359,3450333	137,3602114	0,126848471	FALSE	343,918523	0,220781609	343,918523	407,7318645	188,3793535	0,173963281	FALSE	37,7%	348,9242887	205,840216	0,190087919	FALSE	32,2%
3235	1	1186,837326	Empty	578,8229094	361,6985167	138,4572728	0,1166607	FALSE	358,2946924	0,063585994	358,2946924	352,0364449	184,3965464	0,155368004	FALSE	29,7%	414,0130205	185,3188615	0,156145124	FALSE	34,9%
3235	2	1186,837326	Empty	682,242085	467,1071557	138,4572728	0,1166607	FALSE	465,6927946	0,063585994	465,6927946	414,9353356	184,3965464	0,155368004	FALSE	35,0%	414,0130205	185,3188615	0,156145124	FALSE	34,9%
3235	3	1186,837326	Empty	566,9340361	358,0316532	138,4572728	0,1166607	FALSE	362,8498385	0,063585994	362,8498385	419,865545	184,3965464	0,155368004	FALSE	35,4%	358,8112845	185,3188615	0,156145124	FALSE	30,2%
3236	1	1005,733795	Non-Empty	706,3677184	333,4215511	0	0	TRUE	331,0130779	0	335,5226739	324,7292857	0	0	TRUE	32,3%	360,7523393	0	0	TRUE	35,9%
3236	2	1005,733795	Non-Empty	724,9689036	350,3313506	0	0	TRUE	346,2314918	0	344,3581844	333,2805678	0	0	TRUE	33,1%	349,8204503	0	0	TRUE	34,8%
3236	3	1005,733795	Non-Empty	686,010255	321,9808928	0	0	TRUE	328,4892249	0	325,8529362	347,723941	0	0	TRUE	34,6%	295,1610049	0	0	TRUE	29,3%
3237	1	835,3227038	Non-Empty	624,0611932	293,4916493	0	0	TRUE	289,7716209	0	287,0756851	272,6522115	0	0	TRUE	32,6%	363,6110593	0	0	TRUE	43,5%
3237	2	835,3227038	Non-Empty	603,9835603	287,4596411	0	0	TRUE	297,7852374	0	277,8397315	263,8802977	0	0	TRUE	31,6%	216,2011704	0	0	TRUE	25,9%
3237	3	835,3227038	Non-Empty	587,8264969	254,3714134	0	0	TRUE	247,7658455	0	270,4072872	298,7901947	0	0	TRUE	35,8%	255,5104741	0	0	TRUE	30,6%
3238	1	1027,208584	Non-Empty	723,6755376	338,3337106	0	0	TRUE	360,0259218	0	330,6330059	321,8690809	0	0	TRUE	31,3%	330,9894327	0	0	TRUE	32,2%
3238	2	1027,208584	Non-Empty	770,6345388	354,1958238	0	0	TRUE	344,7911469	0	352,0876426	342,7550302	0	0	TRUE	33,4%	285,3357179	0	0	TRUE	27,8%
3238	3	1027,208584	Non-Empty	754,0006221	334,6790498	0	0	TRUE	322,3915156	0	344,4879358	362,5844732	0	0	TRUE	35,3%	410,8834337	0	0	TRUE	40,0%
3239	1	1192,43733	Empty	571,3500823	404,6339302	95,0070471	0,079674667	FALSE	416,1071982	0,084393369	416,1071982	371,2385734	128,4024038	0,107680631	FALSE	31,1%	354,5083953	145,132582	0,121710868	FALSE	29,7%
3239	2	1192,43733	Empty	546,9159989	376,5464167	95,0070471	0,079674667	FALSE	384,3662545	0,084393369	384,3662545	355,3623628	128,4024038	0,107680631	FALSE	29,8%	408,2217885	145,132582	0,121710868	FALSE	34,2%
3239	3	1192,43733	Empty	608,7395088	411,2569828	95,0070471	0,079674667	FALSE	391,9638769	0,084393369	391,9638769	465,8363934	128,4024038	0,107680631	FALSE	39,1%	429,7071458	145,132582	0,121710868	FALSE	36,0%
3240	1	867,1066646	Empty	400,712451	272,0931412	97,84849186	0,112844816	FALSE	299,0185075	0,149018761	299,0185075	251,5576943	118,3839387	0,136527539	FALSE	29,0%	253,7873165	116,1543165	0,133956203	FALSE	29,3%
3240	2	867,1066646	Empty	464,277049	298,4415335	97,84849186	0,112844816	FALSE	288,1506943	0,149018761	288,1506943	291,4620289	118,3839387	0,136527539	FALSE	33,6%	264,361788	116,1543165	0,133956203	FALSE	30,5%
3240	3	867,1066646	Empty	468,7511933	296,5719899	97,84849186	0,112844816	FALSE	279,9374628	0,149018761	279,9374628	324,0869415	118,3839387	0,136527539	FALSE	37,4%	348,9575601	116,1543165	0,133956203	FALSE	40,2%
3241	1	772,9660444	Non-Empty	516,1831453	258,511787	0	0	TRUE	245,7493515	0	264,6374916	243,6663667	0	0	TRUE	31,5%	283,7470289	0	0	TRUE	36,7%
3241	2	772,9660444	Non-Empty	548,7334626	284,0838631	0	0	TRUE	264,3431864	0	281,3254334	259,0318772	0	0	TRUE	33,5%	205,4719865	0	0	TRUE	26,6%
3241	3	772,9660444	Non-Empty	442,7762048	230,3703942	0	0	TRUE	262,8735064	0	227,0031194	270,2678004	0	0	TRUE	35,0%	283,7470289	0	0	TRUE	36,7%
3242	1	1294,991405	Non-Empty	1014,975409	466,655496																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3256	1	883,9261061	Non-Empty	670,5675452	314,8731343	0	0	TRUE	317,5673375	0	302,5545378	279,5818431	0	0	TRUE	31,6%	294,6420354	0	0	TRUE	33,3%
3256	2	883,9261061	Non-Empty	675,1500042	305,5541746	0	0	TRUE	294,3469592	0	304,6221055	281,4924222	0	0	TRUE	31,8%	286,2236915	0	0	TRUE	32,4%
3256	3	883,9261061	Non-Empty	613,3743991	263,4987971	0	0	TRUE	272,0118093	0	276,7494627	322,8518407	0	0	TRUE	36,5%	303,0603792	0	0	TRUE	34,3%
3257	1	1158,762212	Non-Empty	855,9531146	427,5462417	0	0	TRUE	460,8747942	0	389,8814506	363,3521449	0	0	TRUE	31,4%	401,1099965	0	0	TRUE	34,6%
3257	2	1158,762212	Non-Empty	814,453624	381,3343312	0	0	TRUE	409,9504637	0	370,9786845	345,7356088	0	0	TRUE	29,8%	423,3938852	0	0	TRUE	36,5%
3257	3	1158,762212	Non-Empty	873,5617498	349,8816393	0	0	TRUE	287,9369542	0	397,9020771	449,6744585	0	0	TRUE	38,8%	324,2583304	0	0	TRUE	28,8%
3258	1	802,2354284	Empty	454,3596816	291,4114407	45,59096581	0,056829908	FALSE	292,8009778	0,061922923	292,8009778	265,9581503	68,29533627	0,085131289	FALSE	33,2%	322,548265	74,60016143	0,09299036	FALSE	40,2%
3258	2	802,2354284	Empty	420,107451	250,2416787	45,59096581	0,056829908	FALSE	244,7136845	0,061922923	244,7136845	245,9087043	68,29533627	0,085131289	FALSE	30,7%	248,11405	74,60016143	0,09299036	FALSE	30,9%
3258	3	802,2354284	Empty	420,7816299	260,582309	45,59096581	0,056829908	FALSE	264,7207661	0,061922923	264,7207661	290,3685739	68,29533627	0,085131289	FALSE	36,2%	231,5731134	74,60016143	0,09299036	FALSE	28,9%
3259	1	986,4585391	Non-Empty	715,7166241	355,2779474	0	0	TRUE	354,6000155	0	341,7780122	335,5553123	0	0	TRUE	34,0%	318,212432	0	0	TRUE	32,3%
3259	2	986,4585391	Non-Empty	637,941535	294,7377847	0	0	TRUE	311,2947793	0	304,6378726	299,0913775	0	0	TRUE	30,3%	360,6407562	0	0	TRUE	36,6%
3259	3	986,4585391	Non-Empty	712,0826147	336,442807	0	0	TRUE	320,5637442	0	340,0426543	351,8118493	0	0	TRUE	35,7%	307,6053509	0	0	TRUE	31,2%
3260	1	954,5676977	Empty	489,9603215	319,5802245	77,75501639	0,081455738	FALSE	323,0908445	0,023698769	323,0908445	308,6708602	88,66438073	0,09288433	FALSE	32,3%	393,636164	142,5467068	0,149331166	FALSE	41,2%
3260	2	954,5676977	Empty	471,9163772	301,2548345	77,75501639	0,081455738	FALSE	304,4840089	0,023698769	304,4840089	297,3033278	88,66438073	0,09288433	FALSE	31,1%	236,1816984	142,5467068	0,149331166	FALSE	24,7%
3260	3	954,5676977	Empty	514,3631501	333,7326387	77,75501639	0,081455738	FALSE	326,9928443	0,023698769	326,9928443	348,5935097	88,66438073	0,09288433	FALSE	36,5%	324,7498353	142,5467068	0,149331166	FALSE	34,0%
3261	1	1084,260815	Non-Empty	715,0355042	317,3012197	0	0	TRUE	325,7743399	0	336,6584271	335,8258945	0	0	TRUE	31,0%	327,7997812	0	0	TRUE	30,2%
3261	2	1084,260815	Non-Empty	790,2935915	379,2409136	0	0	TRUE	374,3956404	0	372,0920093	371,1718519	0	0	TRUE	34,2%	353,015149	0	0	TRUE	32,6%
3261	3	1084,260815	Non-Empty	797,5539332	387,7186814	0	0	TRUE	384,0908344	0	375,5103783	377,2630683	0	0	TRUE	34,8%	403,4458845	0	0	TRUE	37,2%
3262	1	1307,261629	Empty	656,9694389	434,9579619	160,935815	0,123109109	FALSE	424,2755403	0,076491059	424,2755403	412,2627936	211,2597844	0,161604823	FALSE	31,5%	488,4274217	189,5625456	0,145007351	FALSE	37,4%
3262	2	1307,261629	Empty	667,6816275	469,3088974	160,935815	0,123109109	FALSE	482,2652226	0,076491059	482,2652226	418,9849279	211,2597844	0,161604823	FALSE	32,1%	459,6963969	189,5625456	0,145007351	FALSE	35,2%
3262	3	1307,261629	Empty	616,5977283	402,9947694	160,935815	0,123109109	FALSE	400,7208659	0,076491059	400,7208659	476,0139072	211,2597844	0,161604823	FALSE	36,4%	359,1378101	189,5625456	0,145007351	FALSE	27,5%
3263	1	771,9340476	Non-Empty	642,4676936	251,6259729	0	0	TRUE	260,9018188	0	251,4556708	250,3659694	0	0	TRUE	32,4%	265,6117153	0	0	TRUE	34,4%
3263	2	771,9340476	Non-Empty	657,4584311	253,7709644	0	0	TRUE	250,2010642	0	257,3229012	256,2077737	0	0	TRUE	33,2%	240,710617	0	0	TRUE	31,2%
3263	3	771,9340476	Non-Empty	672,3606228	266,5371104	0	0	TRUE	260,8311646	0	263,1554756	265,3603046	0	0	TRUE	34,4%	265,6117153	0	0	TRUE	34,4%
3264	1	810,5866877	Non-Empty	581,2548492	298,8671622	0	0	TRUE	286,7182383	0	290,6041928	277,1933138	0	0	TRUE	34,2%	267,0167912	0	0	TRUE	32,9%
3264	2	810,5866877	Non-Empty	508,83799	256,4484964	0	0	TRUE	274,2977659	0	254,3986576	242,6586012	0	0	TRUE	29,9%	238,4078493	0	0	TRUE	29,4%
3264	3	810,5866877	Non-Empty	531,2101378	255,2710291	0	0	TRUE	249,5706835	0	265,5838373	290,7347727	0	0	TRUE	35,9%	305,1620471	0	0	TRUE	37,6%
3265	1	700,6558949	Non-Empty	498,029284	197,4879945	0	0	TRUE	207,9442303	0	213,5990222	215,5058158	0	0	TRUE	30,8%	224,5691971	0	0	TRUE	32,1%
3265	2	700,6558949	Non-Empty	556,5299075	238,4255239	0	0	TRUE	231,3186658	0	238,690249	240,8200393	0	0	TRUE	34,4%	269,4830365	0	0	TRUE	38,5%
3265	3	700,6558949	Non-Empty	579,0892796	264,7423765	0	0	TRUE	261,3929988	0	248,3657437	244,3300397	0	0	TRUE	34,9%	206,6036613	0	0	TRUE	29,5%
3266	1	1384,138417	Empty	651,7511731	418,2427393	164,583611	0,118906902	FALSE	423,1628231	0,016475149	423,1628231	435,1233589	175,7378382	0,126965509	FALSE	31,4%	413,6505615	169,1757888	0,122224618	FALSE	29,9%
3266	2	1384,138417	Empty	696,8607699	459,7789953	164,583611	0,118906902	FALSE	461,1257385	0,016475149	461,1257385	465,2395137	175,7378382	0,126965509	FALSE	33,6%	477,2891095	169,1757888	0,122224618	FALSE	34,5%
3266	3	1384,138417	Empty	750,8120277	506,1166829	164,583611	0,118906902	FALSE	499,8498559	0,016475149	499,8498559	483,7755449	175,7378382	0,126965509	FALSE	35,0%	493,1987465	169,1757888	0,122224618	FALSE	35,6%
3267	1	1017,446123	Non-Empty	728,1472116	301,6315935	0	0	TRUE	318,8273917	0	315,4461164	312,8623085	0	0	TRUE	30,7%	303,0690578	0	0	TRUE	29,8%
3267	2	1017,446123	Non-Empty	819,8851411	365,7036562	0	0	TRUE	355,2335875	0	355,1885931	352,279256	0	0	TRUE	34,6%	422,131902	0	0	TRUE	41,5%
3267	3	1017,446123	Non-Empty	800,5480188	350,110873	0	0	TRUE	343,3851436	0	346,8114132	352,3045582	0	0	TRUE	34,6%	292,2451629	0	0	TRUE	28,7%
3268	1	639,2141668	Non-Empty	405,785426	188,8702276	0	0	TRUE	200,1950438	0	195,9189444	182,8921835	0	0	TRUE	28,6%	193,9189045	0	0	TRUE	30,3%
3268	2	639,2141668	Non-Empty	485,0281325	247,697986	0	0	TRUE	238,6078541	0	234,1784442	218,6077876	0	0	TRUE	34,2%	208,2832678	0	0	TRUE	32,6%
3268	3	639,2141668	Non-Empty	433,120652	202,6459532	0	0	TRUE	200,4112689	0	209,1167782	237,7141958	0	0	TRUE	37,2%	237,0119944	0	0	TRUE	37,1%
3269	1	1345,001557	Empty	642,0596528	445,1063828	188,1568235	0,139893387	FALSE	460,6324166	0,223151398	460,6324166	439,2605512	221,3133009	0,164545015	FALSE	32,7%	435,1475624	183,2666074	0,136257543	FALSE	32,4%
3269	2	1345,001557	Empty	557,7599174	414,7439634	188,1568235	0,139893387	FALSE	464,2073132	0,223151398	464,2073132	381,587486	221,3133009	0,164545015	FALSE	28,4%	514,2653011	183,2666074	0,136257543	FALSE	38,2%
3269	3	1345,001557	Empty	722,6198979	485,1512105	188,1568235	0,139893387	FALSE	440,1618269	0,223151398	440,1618269	524,1535195	221,3133009	0,164545015	FALSE	39,0%	395,5886931	183,2666074	0,136257543	FALSE	29,4%
3270	1	853,7514453	Non-Empty	668,8606654	300,3826791	0	0	TRUE	325,9177087	0	280,5007498	273,4182703	0	0	TRUE	32,0%	334,8044883	0	0	TRUE	39,2%
3270	2	853,7514453	Non-Empty	687,1763835	253,0601542	0	0	TRUE	212,9569409	0	288,1818304	280,9054081	0	0	TRUE	32,9%	242,733254	0	0	TRUE	28,4%
3270	3	853,7514453	Non-Empty	679,7534442	300,380612	0	0	TRUE	314,8767957	0	256,0868651	299,4277669	0	0	TRUE	35,1%	276,2137029	0	0	TRUE	32,4%
3271	1	1350,799824	Empty	705,3700805	469,7388348	184,3374736	0,136465426	FALSE	456,6375365	0,079971661	456,6375365	431,4540903	178,4328863	0,132094248	FALSE	31,9%	383,911529	225,9754476	0,167290107	FALSE	28,4%
3271	2	1350,799824	Empty	729,06169	488,5450072	184,3374736	0,136465426	FALSE	470,5582719	0,079971661	470,5582719	445,9455496	178,4328863	0,132094248	FALSE	33,0%	483,4441477	225,9754476	0,167290107	FALSE	35,8%
3271	3	1350,799824	Empty	583,9578963	392,5159824	184,3374736	0,136465426	FALSE	423,604016	0,079971661	423,604016	473,4001845	178,4328863	0,132094248	FALSE	35,0%	483,4441477	225,9754476	0,167290107	FALSE	35,8%
3272	1	1120,130134	Non-Empty	902,6772166	418,3579444	0	0	TRUE	410,2279914	0	396,7186051	382,3178827	0	0	TRUE	34,1%	413,9611367	0	0	TRUE	37,0%
3272	2	1120,130134	Non-Empty	818,3775781	351,0507826	0	0	TRUE	359,9133064	0	359,6696641	346,613803	0	0	TRUE	30,9%	389,6104816	0	0	TRUE	34,8%
3272	3	1120,130134	Non-Empty	827,6432974	350,7214074	0	0</														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3287	1	798,1986248	Empty	408,4965752	255,4821498	73,23056723	0,091744793	FALSE	241,2307022	0,204466969	241,2307022	251,5610933	59,3543324	0,074360354	FALSE	31,5%	247,9840388	54,21102878	0,067916715	FALSE	31,1%
3287	2	798,1986248	Empty	430,3993354	275,0044687	73,23056723	0,091744793	FALSE	258,3725798	0,204466969	258,3725798	265,0492903	59,3543324	0,074360354	FALSE	33,2%	263,4830412	54,21102878	0,067916715	FALSE	33,0%
3287	3	798,1986248	Empty	375,5916478	267,7120064	73,23056723	0,091744793	FALSE	298,5953428	0,204466969	298,5953428	281,5882412	59,3543324	0,074360354	FALSE	35,3%	286,7315448	54,21102878	0,067916715	FALSE	35,9%
3288	1	1020,926129	Empty	569,4886075	393,4010584	84,74581606	0,083008764	FALSE	391,4768863	0,044268364	391,4768863	339,4262453	133,3424323	0,130609286	FALSE	33,2%	348,0429985	124,725679	0,122169152	FALSE	34,1%
3288	2	1020,926129	Empty	505,2284963	329,5352667	84,74581606	0,083008764	FALSE	328,0054141	0,044268364	328,0054141	301,1259738	133,3424323	0,130609286	FALSE	29,5%	290,0358321	124,725679	0,122169152	FALSE	28,4%
3288	3	1020,926129	Empty	468,699156	297,9898038	84,74581606	0,083008764	FALSE	301,4438286	0,044268364	301,4438286	380,3739099	133,3424323	0,130609286	FALSE	37,3%	382,8472984	124,725679	0,122169152	FALSE	37,5%
3289	1	960,5593887	Non-Empty	590,9660268	306,1421322	0	0	TRUE	297,3153401	0	317,3843306	315,4159828	0	0	TRUE	32,8%	246,2972792	0	0	TRUE	25,6%
3289	2	960,5593887	Non-Empty	547,4078482	282,5099277	0	0	TRUE	293,6091097	0	293,9909666	292,1676993	0	0	TRUE	30,4%	357,1310548	0	0	TRUE	37,2%
3289	3	960,5593887	Non-Empty	650,1768211	371,9073287	0	0	TRUE	369,6349389	0	349,1840914	352,9757066	0	0	TRUE	36,7%	357,1310548	0	0	TRUE	37,2%
3290	1	950,7443159	Non-Empty	663,1032652	335,2721079	0	0	TRUE	322,3442114	0	332,6071894	313,3347773	0	0	TRUE	33,0%	359,1700749	0	0	TRUE	37,8%
3290	2	950,7443159	Non-Empty	650,3632885	316,2479146	0	0	TRUE	297,0358016	0	326,2169209	307,3147831	0	0	TRUE	32,3%	274,6594691	0	0	TRUE	28,9%
3290	3	950,7443159	Non-Empty	581,9875449	299,2242935	0	0	TRUE	331,364303	0	291,9202056	330,0947556	0	0	TRUE	34,7%	316,914772	0	0	TRUE	33,3%
3291	1	1640,304981	Empty	826,5462417	579,9696568	246,4498352	0,150246349	FALSE	578,3589323	0,033832287	578,3589323	532,5696378	277,4301807	0,169133292	FALSE	32,5%	517,9910467	292,0087718	0,178021024	FALSE	31,6%
3291	2	1640,304981	Empty	821,9228486	563,7587636	246,4498352	0,150246349	FALSE	550,5605391	0,033832287	550,5605391	529,5906408	277,4301807	0,169133292	FALSE	32,3%	604,3228878	292,0087718	0,178021024	FALSE	36,8%
3291	3	1640,304981	Empty	726,7334723	496,5765608	246,4498352	0,150246349	FALSE	511,3855098	0,033832287	511,3855098	578,1447026	277,4301807	0,169133292	FALSE	35,2%	517,9910467	292,0087718	0,178021024	FALSE	31,6%
3292	1	969,5377265	Non-Empty	795,0583059	366,2744603	0	0	TRUE	374,3474793	0	336,3013063	324,8892718	0	0	TRUE	33,5%	303,5926214	0	0	TRUE	31,3%
3292	2	969,5377265	Non-Empty	744,4870923	295,6986222	0	0	TRUE	287,7670167	0	314,9102145	304,2240645	0	0	TRUE	31,4%	303,5926214	0	0	TRUE	31,3%
3292	3	969,5377265	Non-Empty	752,5629221	309,564644	0	0	TRUE	307,4232305	0	318,3262057	340,4243902	0	0	TRUE	35,1%	362,3524836	0	0	TRUE	37,4%
3293	1	529,6768838	Non-Empty	398,3918585	191,5009957	0	0	TRUE	203,6504704	0	177,8053018	165,426727	0	0	TRUE	31,2%	156,4954429	0	0	TRUE	29,5%
3293	2	529,6768838	Non-Empty	406,7413094	177,5374192	0	0	TRUE	167,3738666	0	181,5317249	168,8937214	0	0	TRUE	31,9%	210,6669424	0	0	TRUE	39,8%
3293	3	529,6768838	Non-Empty	381,6647286	160,6384689	0	0	TRUE	158,6525467	0	170,3398571	195,3564354	0	0	TRUE	36,9%	162,5144984	0	0	TRUE	30,7%
3294	1	632,2324289	Non-Empty	514,7193099	231,0705429	0	0	TRUE	239,2413432	0	215,8414498	204,3195449	0	0	TRUE	32,3%	225,2782218	0	0	TRUE	35,6%
3294	2	632,2324289	Non-Empty	493,0131096	205,428725	0	0	TRUE	209,6639076	0	206,7392116	195,7031964	0	0	TRUE	31,0%	232,5452612	0	0	TRUE	36,8%
3294	3	632,2324289	Non-Empty	499,9587113	195,733161	0	0	TRUE	183,3271781	0	209,6517675	232,2096877	0	0	TRUE	36,7%	174,4089459	0	0	TRUE	27,6%
3295	1	926,4688671	Non-Empty	772,621429	323,6983061	0	0	TRUE	319,4383951	0	316,6657115	314,2813772	0	0	TRUE	33,9%	312,6832426	0	0	TRUE	33,8%
3295	2	926,4688671	Non-Empty	724,9196171	291,1003318	0	0	TRUE	301,9442584	0	297,1147029	294,877578	0	0	TRUE	31,8%	301,1023818	0	0	TRUE	32,5%
3295	3	926,4688671	Non-Empty	762,9174566	311,6702291	0	0	TRUE	305,0862136	0	312,6884527	317,3099119	0	0	TRUE	34,2%	312,6832426	0	0	TRUE	33,8%
3296	1	1065,401347	Non-Empty	781,7734922	332,7383157	0	0	TRUE	334,7252407	0	344,3926699	343,3984599	0	0	TRUE	32,2%	338,9913377	0	0	TRUE	31,8%
3296	2	1065,401347	Non-Empty	808,2971865	349,7383011	0	0	TRUE	342,2015172	0	356,070849	355,0491438	0	0	TRUE	33,3%	375,3118382	0	0	TRUE	35,2%
3296	3	1065,401347	Non-Empty	828,3969732	382,9247304	0	0	TRUE	388,4745893	0	364,9315923	366,9537435	0	0	TRUE	34,4%	351,0981712	0	0	TRUE	33,0%
3297	1	929,1367319	Non-Empty	603,8431469	299,7588456	0	0	TRUE	317,889107	0	295,9482238	276,440607	0	0	TRUE	29,8%	285,8882252	0	0	TRUE	30,8%
3297	2	929,1367319	Non-Empty	656,8240452	338,7915653	0	0	TRUE	342,9736482	0	321,9145742	300,6953688	0	0	TRUE	32,4%	306,3088127	0	0	TRUE	33,0%
3297	3	929,1367319	Non-Empty	635,1132282	290,586321	0	0	TRUE	268,2739767	0	311,2739339	352,0007561	0	0	TRUE	37,9%	336,939694	0	0	TRUE	36,3%
3298	1	1219,93407	Non-Empty	879,5822779	424,5246751	0	0	TRUE	430,4057695	0	412,2686856	404,9019347	0	0	TRUE	33,2%	416,9394921	0	0	TRUE	34,2%
3298	2	1219,93407	Non-Empty	830,6172529	370,9572542	0	0	TRUE	372,2359528	0	389,3183067	382,3616518	0	0	TRUE	31,3%	308,8440683	0	0	TRUE	25,3%
3298	3	1219,93407	Non-Empty	892,5506304	424,4521402	0	0	TRUE	417,2923473	0	418,3470773	432,6704832	0	0	TRUE	35,5%	494,1505092	0	0	TRUE	40,5%
3299	1	1483,955717	Empty	764,468282	490,2794027	183,2918672	0,123515726	FALSE	491,9268586	0,059857453	491,9268586	474,7687817	183,8854415	0,12391572	FALSE	32,0%	432,8204174	225,8338058	0,152183656	FALSE	29,2%
3299	2	1483,955717	Empty	806,0220933	511,9737995	183,2918672	0,123515726	FALSE	493,7618409	0,059857453	493,7618409	500,5755454	183,8854415	0,12391572	FALSE	33,7%	463,7361615	225,8338058	0,152183656	FALSE	31,3%
3299	3	1483,955717	Empty	740,9743473	481,7025147	183,2918672	0,123515726	FALSE	498,2670173	0,059857453	498,2670173	508,6113896	183,8854415	0,12391572	FALSE	34,3%	587,3991379	225,8338058	0,152183656	FALSE	39,6%
3300	1	905,1896927	Non-Empty	577,7065923	278,7602216	0	0	TRUE	291,8064026	0	284,0230973	270,3974971	0	0	TRUE	29,9%	288,4670449	0	0	TRUE	31,9%
3300	2	905,1896927	Non-Empty	669,3147677	346,3820161	0	0	TRUE	335,4418161	0	329,06125	313,2750091	0	0	TRUE	34,6%	377,9913002	0	0	TRUE	41,8%
3300	3	905,1896927	Non-Empty	594,1459877	280,047455	0	0	TRUE	277,941474	0	292,1053454	321,5171865	0	0	TRUE	35,5%	238,7313475	0	0	TRUE	26,4%
3301	1	709,4332337	Empty	393,9517961	237,4124495	94,14037415	0,132698004	FALSE	198,3576898	0,459662867	198,3576898	262,9395702	117,134935	0,165110583	FALSE	37,1%	168,5781941	69,96890612	0,098626485	FALSE	23,8%
3301	2	709,4332337	Empty	260,1889506	196,6553273	94,14037415	0,132698004	FALSE	250,606291	0,459662867	250,606291	173,6607664	117,134935	0,165110583	FALSE	24,5%	280,9636569	69,96890612	0,098626485	FALSE	39,6%
3301	3	709,4332337	Empty	407,7462481	275,365547	94,14037415	0,132698004	FALSE	260,4692529	0,459662867	260,4692529	272,8328971	117,134935	0,165110583	FALSE	38,5%	259,8913826	69,96890612	0,098626485	FALSE	36,6%
3302	1	1472,020312	Empty	766,0520757	504,8956855	204,5080912	0,13893021	FALSE	478,2726022	0,081289938	478,2726022	507,7448202	216,662374	0,147187082	FALSE	34,5%	401,460085	265,0891255	0,180085236	FALSE	27,3%
3302	2	1472,020312	Empty	683,454975	465,1531511	204,5080912	0,13893021	FALSE	481,3846341	0,081289938	481,3846341	452,9988684	216,662374	0,147187082	FALSE	30,8%	475,8045451	265,0891255	0,180085236	FALSE	32,3%
3302	3	1472,020312	Empty	726,1131813	501,9714749	204,5080912	0,13893021	FALSE	512,3630752	0,081289938	512,3630752	511,276623	216,662374	0,147187082	FALSE	34,7%	594,7556814	265,0891255	0,180085236	FALSE	40,4%
3303	1	1385,671423	Empty	702,1323304	473,1341875	184,6231382	0,133237314	FALSE	464,4233636	0,154634435	464,4233636	453,6748464	225,7465634	0,16291493	FALSE	32,7%	456,6417189	171,8110061	0,123991159	FALSE	33,0%
3303	2	1385,671423	Empty	637,9520475	453,3289093	184,6231382	0,133237314	FALSE	488,9930902	0,154634435	488,9930902	412,2054841	225,7465634	0,16291493	FALSE	29,7%	519,6267836				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3318	1	858,8785753	Non-Empty	659,9591213	292,2363936	0	0	TRUE	293,8490194	0	288,1840346	290,6817079	0	0	TRUE	33,8%	292,7995143	0	0	TRUE	34,1%
3318	2	858,8785753	Non-Empty	617,5240486	243,7347153	0	0	TRUE	239,2807357	0	269,6539316	271,9910056	0	0	TRUE	31,7%	302,5594981	0	0	TRUE	35,2%
3318	3	858,8785753	Non-Empty	689,4014661	322,9074664	0	0	TRUE	325,7488202	0	301,0406092	296,2058618	0	0	TRUE	34,5%	263,5195629	0	0	TRUE	30,7%
3319	1	828,475526	Empty	318,4365032	201,9183011	69,54513592	0,083943501	FALSE	237,0482163	0,209106231	237,0482163	184,8547581	86,60867891	0,104539816	FALSE	22,3%	241,6386951	131,5696654	0,158809357	FALSE	29,2%
3319	2	828,475526	Empty	541,4049743	377,2199285	69,54513592	0,083943501	FALSE	364,6829999	0,209106231	364,6829999	314,2896137	86,60867891	0,104539816	FALSE	37,9%	267,5285553	131,5696654	0,158809357	FALSE	32,3%
3319	3	828,475526	Empty	423,5784	249,3372964	69,54513592	0,083943501	FALSE	226,7443099	0,209106231	226,7443099	329,3311541	86,60867891	0,104539816	FALSE	39,8%	319,3082756	131,5696654	0,158809357	FALSE	38,5%
3320	1	1611,690534	Empty	784,6542967	511,5993368	204,1870281	0,126691213	FALSE	503,4498584	0,043413179	503,4498584	529,6852405	211,0576647	0,130954213	FALSE	32,9%	486,8648487	255,0778037	0,158267235	FALSE	30,2%
3320	2	1611,690534	Empty	766,6678939	513,4776632	204,1870281	0,126691213	FALSE	525,192914	0,043413179	525,192914	517,5434194	211,0576647	0,130954213	FALSE	32,1%	604,3839501	255,0778037	0,158267235	FALSE	37,5%
3320	3	1611,690534	Empty	855,0847875	586,6135336	204,1870281	0,126691213	FALSE	583,0477612	0,043413179	583,0477612	564,4618738	211,0576647	0,130954213	FALSE	35,0%	520,4417348	255,0778037	0,158267235	FALSE	32,3%
3321	1	832,4563404	Non-Empty	549,2570302	310,5465244	0	0	TRUE	353,4483357	0	272,6013987	257,9563562	0	0	TRUE	31,0%	293,341758	0	0	TRUE	35,2%
3321	2	832,4563404	Non-Empty	582,9560165	232,3841622	0	0	TRUE	163,424625	0	289,3265206	273,7829497	0	0	TRUE	32,9%	261,6291355	0	0	TRUE	31,4%
3321	3	832,4563404	Non-Empty	545,0802449	289,5256537	0	0	TRUE	315,5833797	0	270,5284211	300,7170345	0	0	TRUE	36,1%	277,4854468	0	0	TRUE	33,3%
3322	1	708,8211864	Non-Empty	471,7272016	213,3463686	0	0	TRUE	243,1134138	0	212,5327092	208,4225145	0	0	TRUE	29,4%	233,8379172	0	0	TRUE	33,0%
3322	2	708,8211864	Non-Empty	541,3842605	243,9035047	0	0	TRUE	234,5706271	0	243,9161091	239,1989872	0	0	TRUE	33,7%	219,2230473	0	0	TRUE	30,9%
3322	3	708,8211864	Non-Empty	560,153359	251,5713132	0	0	TRUE	231,1371455	0	252,3723681	261,1996848	0	0	TRUE	36,8%	255,7602219	0	0	TRUE	36,1%
3323	1	815,3335563	Non-Empty	641,812548	317,1243925	0	0	TRUE	323,0714823	0	289,5528608	272,6717553	0	0	TRUE	33,4%	254,7917363	0	0	TRUE	31,3%
3323	2	815,3335563	Non-Empty	568,4984643	243,1736241	0	0	TRUE	248,4840292	0	256,4773113	241,5245302	0	0	TRUE	29,6%	237,8056206	0	0	TRUE	29,2%
3323	3	815,3335563	Non-Empty	596,9282802	255,0355398	0	0	TRUE	243,7780447	0	269,3033842	301,1372709	0	0	TRUE	36,9%	322,7361994	0	0	TRUE	39,6%
3324	1	643,2329463	Non-Empty	536,0017261	209,4810657	0	0	TRUE	181,1827439	0	224,1849132	219,3466049	0	0	TRUE	34,1%	162,5009549	0	0	TRUE	25,3%
3324	2	643,2329463	Non-Empty	497,8437014	207,6920293	0	0	TRUE	215,7626957	0	208,2251634	203,7312948	0	0	TRUE	31,7%	257,2931785	0	0	TRUE	40,0%
3324	3	643,2329463	Non-Empty	504,0545345	226,0598513	0	0	TRUE	246,2875067	0	210,8228697	220,1550466	0	0	TRUE	34,2%	223,4388129	0	0	TRUE	34,7%
3325	1	1268,799637	Empty	577,3020108	415,667691	185,4052171	0,146126474	FALSE	423,514906	0,047116895	423,514906	406,9675245	194,1053835	0,15298348	FALSE	32,1%	470,4537982	297,425459	0,234414836	FALSE	37,1%
3325	2	1268,799637	Empty	579,0660558	403,5548772	185,4052171	0,146126474	FALSE	397,5252334	0,047116895	397,5252334	408,2110834	194,1053835	0,15298348	FALSE	32,2%	470,4537982	297,425459	0,234414836	FALSE	37,1%
3325	3	1268,799637	Empty	620,8761753	449,5770692	185,4052171	0,146126474	FALSE	447,759498	0,047116895	447,759498	453,6210295	194,1053835	0,15298348	FALSE	35,8%	327,8920411	297,425459	0,234414836	FALSE	25,8%
3326	1	894,2419105	Non-Empty	614,7041524	315,9949236	0	0	TRUE	302,0504088	0	314,3739672	297,7302031	0	0	TRUE	33,3%	272,1605815	0	0	TRUE	30,4%
3326	2	894,2419105	Non-Empty	553,0470466	278,7884562	0	0	TRUE	289,2945798	0	282,8410926	267,8667597	0	0	TRUE	30,0%	262,4405607	0	0	TRUE	29,3%
3326	3	894,2419105	Non-Empty	580,7848535	299,4585307	0	0	TRUE	302,8969219	0	297,0268507	328,6449477	0	0	TRUE	36,8%	359,6407684	0	0	TRUE	40,2%
3327	1	899,9749668	Empty	374,3608681	245,1293182	106,9314696	0,118816049	FALSE	279,8091319	0,145669963	279,8091319	250,3336656	101,7271222	0,11303328	FALSE	27,8%	281,2421771	114,7953269	0,127553911	FALSE	31,3%
3327	2	899,9749668	Empty	476,9417719	300,0178279	106,9314696	0,118816049	FALSE	287,0052475	0,145669963	287,0052475	318,9291195	101,7271222	0,11303328	FALSE	35,4%	328,1158733	114,7953269	0,127553911	FALSE	36,5%
3327	3	899,9749668	Empty	540,4064177	354,8278207	106,9314696	0,118816049	FALSE	333,1605873	0,145669963	333,1605873	330,7121817	101,7271222	0,11303328	FALSE	36,7%	290,6169164	114,7953269	0,127553911	FALSE	32,3%
3328	1	550,7765018	Non-Empty	394,4990477	167,6693421	0	0	TRUE	169,7238431	0	175,5905059	168,2364302	0	0	TRUE	30,5%	201,5035982	0	0	TRUE	36,6%
3328	2	550,7765018	Non-Empty	445,8802331	201,1191697	0	0	TRUE	185,2423128	0	198,4601387	190,1482378	0	0	TRUE	34,5%	208,2203848	0	0	TRUE	37,8%
3328	3	550,7765018	Non-Empty	397,0498405	181,98799	0	0	TRUE	195,8103459	0	176,7258572	192,3918338	0	0	TRUE	34,9%	141,0525188	0	0	TRUE	25,6%
3329	1	1441,647344	Empty	765,7174556	547,6905073	222,6237895	0,154423195	FALSE	530,3182234	0,045070244	530,3182234	502,8616663	256,8000854	0,178129614	FALSE	34,9%	474,8955955	261,8793334	0,181652839	FALSE	32,9%
3329	2	1441,647344	Empty	636,9832958	452,4957153	222,6237895	0,154423195	FALSE	468,6627993	0,045070244	468,6627993	418,3194194	256,8000854	0,178129614	FALSE	29,0%	457,9350385	261,8793334	0,181652839	FALSE	31,8%
3329	3	1441,647344	Empty	640,9105855	441,4611209	222,6237895	0,154423195	FALSE	442,6663209	0,045070244	442,6663209	520,4662578	256,8000854	0,178129614	FALSE	36,1%	508,8167095	261,8793334	0,181652839	FALSE	35,3%
3330	1	1084,209804	Empty	526,3087051	322,0270454	110,1109489	0,10155871	FALSE	316,1426709	0,091076898	316,1426709	364,7753387	182,5023742	0,168327545	FALSE	33,6%	425,9395658	254,759546	0,234972553	FALSE	39,3%
3330	2	1084,209804	Empty	505,4381506	313,5444322	110,1109489	0,10155871	FALSE	320,0479989	0,091076898	320,0479989	350,3103232	182,5023742	0,168327545	FALSE	32,3%	361,4032679	254,759546	0,234972553	FALSE	33,3%
3330	3	1084,209804	Empty	647,6548037	448,6383262	110,1109489	0,10155871	FALSE	448,0191339	0,091076898	448,0191339	369,1241419	182,5023742	0,168327545	FALSE	34,0%	296,8669701	254,759546	0,234972553	FALSE	27,4%
3331	1	911,887792	Non-Empty	711,2456499	317,6118089	0	0	TRUE	317,1005508	0	310,1372418	284,2153818	0	0	TRUE	31,2%	372,1990988	0	0	TRUE	40,8%
3331	2	911,887792	Non-Empty	717,3427672	336,2369321	0	0	TRUE	348,2536799	0	312,7958776	286,6518038	0	0	TRUE	31,4%	288,4543016	0	0	TRUE	31,6%
3331	3	911,887792	Non-Empty	662,6671235	258,039051	0	0	TRUE	246,5335613	0	288,9546726	341,0206065	0	0	TRUE	37,4%	251,2343917	0	0	TRUE	27,6%
3332	1	1573,870552	Empty	739,1482064	505,7697954	137,2365248	0,087196831	FALSE	493,0156246	0,296692379	493,0156246	468,3061909	242,1627796	0,153864483	FALSE	29,8%	489,9785682	108,4611499	0,068913641	FALSE	31,1%
3332	2	1573,870552	Empty	702,9374625	550,2902057	137,2365248	0,087196831	FALSE	618,267189	0,296692379	618,267189	445,3639509	242,1627796	0,153864483	FALSE	28,3%	579,0655806	108,4611499	0,068913641	FALSE	36,8%
3332	3	1573,870552	Empty	793,6576038	517,8105513	137,2365248	0,087196831	FALSE	462,5877389	0,296692379	462,5877389	660,2004106	242,1627796	0,153864483	FALSE	41,9%	504,8264036	108,4611499	0,068913641	FALSE	32,1%
3333	1	1024,357257	Non-Empty	737,3031218	378,2306489	0	0	TRUE	383,1571832	0	356,8692685	342,6659465	0	0	TRUE	33,5%	272,4354406	0	0	TRUE	26,6%
3333	2	1024,357257	Non-Empty	647,8613315	304,1620571	0	0	TRUE	324,4617898	0	313,5776761	301,0973503	0	0	TRUE	29,4%	370,5121992	0	0	TRUE	36,2%
3333	3	1024,357257	Non-Empty	731,1898249	341,9645507	0	0	TRUE	316,7382837	0	353,9103121	380,5939599	0	0	TRUE	37,2%	381,4096169	0	0	TRUE	37,2%
3334	1	996,7379023	Empty	558,9665103	360,1597648	117,936004	0,118321982	FALSE	343,379557	0,209153406	343,379557	354,2432287	134,4713041	0,134911398	FALSE	35,5%	303,3550138	111,6726446	0,112038124	FALSE	30,4%
3334	2	996,73790																			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3349	1	783,7885179	Non-Empty	523,3588934	251,6137655	0	0	TRUE	258,8645913	0	253,0902453	255,3750937	0	0	TRUE	32,6%	246,9470673	0	0	TRUE	31,5%
3349	2	783,7885179	Non-Empty	497,1714215	226,094567	0	0	TRUE	234,0136662	0	240,4262899	242,5968106	0	0	TRUE	31,0%	322,1048704	0	0	TRUE	41,1%
3349	3	783,7885179	Non-Empty	600,2460641	306,0801854	0	0	TRUE	290,9102604	0	290,2719826	285,8166135	0	0	TRUE	36,5%	214,7365802	0	0	TRUE	27,4%
3350	1	797,3201109	Non-Empty	586,4054965	272,238967	0	0	TRUE	252,1410273	0	278,383587	255,1325327	0	0	TRUE	32,0%	312,4632867	0	0	TRUE	39,2%
3350	2	797,3201109	Non-Empty	593,0513545	294,7359935	0	0	TRUE	290,4892223	0	281,5388421	258,0240039	0	0	TRUE	32,4%	247,8157101	0	0	TRUE	31,1%
3350	3	797,3201109	Non-Empty	500,0690295	230,3451505	0	0	TRUE	254,6898613	0	237,39741	284,1635742	0	0	TRUE	35,6%	237,041114	0	0	TRUE	29,7%
3351	1	1150,951836	Empty	620,6718709	412,3063962	144,4096958	0,125469799	FALSE	408,0322771	0,019548877	408,0322771	396,4690981	153,3992113	0,133280305	FALSE	34,4%	367,8299681	182,0383413	0,158163301	FALSE	32,0%
3351	2	1150,951836	Empty	557,8179848	355,4270848	144,4096958	0,125469799	FALSE	357,1275404	0,019548877	357,1275404	356,3196653	153,3992113	0,133280305	FALSE	31,0%	379,6954509	182,0383413	0,158163301	FALSE	33,0%
3351	3	1150,951836	Empty	584,7360466	383,2183546	144,4096958	0,125469799	FALSE	385,7920181	0,019548877	385,7920181	398,1630722	153,3992113	0,133280305	FALSE	34,6%	403,4264166	182,0383413	0,158163301	FALSE	35,1%
3352	1	1389,232516	Empty	730,2183751	479,4179017	174,1445438	0,125353058	FALSE	470,0155004	0,101899993	470,0155004	473,9096424	186,1861181	0,134020847	FALSE	34,1%	572,0369183	248,2122864	0,178668642	FALSE	41,2%
3352	2	1389,232516	Empty	628,9108513	420,2029228	174,1445438	0,125353058	FALSE	452,8930663	0,101899993	452,8930663	408,1613485	186,1861181	0,134020847	FALSE	29,4%	457,6295346	248,2122864	0,178668642	FALSE	32,9%
3352	3	1389,232516	Empty	754,2975056	489,6116912	174,1445438	0,125353058	FALSE	466,323949	0,101899993	466,323949	507,1615248	186,1861181	0,134020847	FALSE	36,5%	359,5660629	248,2122864	0,178668642	FALSE	25,9%
3353	1	895,7857939	Non-Empty	730,2921007	323,1646821	0	0	TRUE	321,4034697	0	309,7637756	279,5754554	0	0	TRUE	31,2%	328,8327598	0	0	TRUE	36,7%
3353	2	895,7857939	Non-Empty	767,6974553	344,104598	0	0	TRUE	326,4896705	0	325,6297884	293,895231	0	0	TRUE	32,8%	340,1718205	0	0	TRUE	38,0%
3353	3	895,7857939	Non-Empty	613,8948567	228,2106521	0	0	TRUE	247,8926537	0	260,3922299	322,3151075	0	0	TRUE	36,0%	226,7812137	0	0	TRUE	25,3%
3354	1	958,1376408	Non-Empty	744,9272148	386,0247729	0	0	TRUE	374,7729981	0	356,6770769	338,0925034	0	0	TRUE	35,3%	251,5111307	29,51081029	0,030800178	FALSE	26,3%
3354	2	958,1376408	Non-Empty	600,7928858	274,9927019	0	0	TRUE	296,8431852	0	287,6644134	272,6757283	0	0	TRUE	28,5%	311,3947333	29,51081029	0,030800178	FALSE	32,5%
3354	3	958,1376408	Non-Empty	655,3695417	297,120166	0	0	TRUE	286,5214574	0	313,7961505	347,3694091	0	0	TRUE	36,3%	395,2317768	29,51081029	0,030800178	FALSE	41,3%
3355	1	849,5873608	Non-Empty	578,2800446	282,795458	0	0	TRUE	317,5585225	0	266,9626279	261,7493803	0	0	TRUE	30,8%	312,584029	0	0	TRUE	36,8%
3355	2	849,5873608	Non-Empty	593,947249	238,8111368	0	0	TRUE	213,9226757	0	274,1953832	268,8408944	0	0	TRUE	31,6%	240,449253	0	0	TRUE	28,3%
3355	3	849,5873608	Non-Empty	668,1030202	327,9807659	0	0	TRUE	318,1061626	0	308,4293496	318,997086	0	0	TRUE	37,5%	296,5540788	0	0	TRUE	34,9%
3356	1	1311,837219	Empty	641,4583025	441,6402738	193,8256801	0,14775132	FALSE	454,1740704	0,055914366	454,1740704	414,1910332	221,2749206	0,168675593	FALSE	31,6%	504,5527765	251,9573415	0,192064486	FALSE	38,5%
3356	2	1311,837219	Empty	676,2852241	452,4760212	193,8256801	0,14775132	FALSE	441,0186437	0,055914366	441,0186437	436,6788529	221,2749206	0,168675593	FALSE	33,3%	461,3053956	251,9573415	0,192064486	FALSE	35,2%
3356	3	1311,837219	Empty	631,1491682	417,7209238	193,8256801	0,14775132	FALSE	416,6445048	0,055914366	416,6445048	460,9673326	221,2749206	0,168675593	FALSE	35,1%	345,9790467	251,9573415	0,192064486	FALSE	26,4%
3357	1	1698,042864	Empty	869,0165004	570,362323	208,7664423	0,122945331	FALSE	565,9345165	0,045627379	565,9345165	561,8282418	222,4838392	0,131023688	FALSE	33,1%	554,0981977	202,6215649	0,119326531	FALSE	32,6%
3357	2	1698,042864	Empty	820,2861015	544,040927	208,7664423	0,122945331	FALSE	562,0221232	0,045627379	562,0221232	530,3235301	222,4838392	0,131023688	FALSE	31,2%	571,9723331	202,6215649	0,119326531	FALSE	33,7%
3357	3	1698,042864	Empty	891,4193743	583,6396138	208,7664423	0,122945331	FALSE	570,0862242	0,045627379	570,0862242	605,8910919	222,4838392	0,131023688	FALSE	35,7%	571,9723331	202,6215649	0,119326531	FALSE	33,7%
3358	1	889,4712235	Non-Empty	702,4481769	284,3494053	0	0	TRUE	279,647472	0	293,3834177	299,6256038	0	0	TRUE	33,7%	322,4333185	0	0	TRUE	36,3%
3358	2	889,4712235	Non-Empty	674,3355952	268,2331879	0	0	TRUE	275,527619	0	281,6419603	287,6343288	0	0	TRUE	32,3%	244,6045864	0	0	TRUE	27,5%
3358	3	889,4712235	Non-Empty	752,8779665	336,8886303	0	0	TRUE	334,2961325	0	314,4458455	302,2112908	0	0	TRUE	34,0%	322,4333185	0	0	TRUE	36,3%
3359	1	1010,744468	Non-Empty	676,228682	324,7498262	0	0	TRUE	317,4145614	0	334,5255883	312,814883	0	0	TRUE	30,9%	310,11478	0	0	TRUE	30,7%
3359	2	1010,744468	Non-Empty	673,7229884	364,6015579	0	0	TRUE	399,6237183	0	333,2860392	311,6557807	0	0	TRUE	30,8%	367,5434429	0	0	TRUE	36,4%
3359	3	1010,744468	Non-Empty	693,2235706	321,393084	0	0	TRUE	293,7061884	0	342,9328405	386,2738043	0	0	TRUE	38,2%	333,0862452	0	0	TRUE	33,0%
3360	1	844,8196418	Empty	483,9240623	320,4547113	110,613699	0,130931732	FALSE	300,6245092	0,202146258	300,6245092	288,2736474	86,02008181	0,101820646	FALSE	34,1%	293,4636651	98,28709133	0,116340916	FALSE	34,7%
3360	2	844,8196418	Empty	442,5922091	281,8387833	110,613699	0,130931732	FALSE	264,7245064	0,202146258	264,7245064	263,6522553	86,02008181	0,101820646	FALSE	31,2%	240,106635	98,28709133	0,116340916	FALSE	28,4%
3360	3	844,8196418	Empty	349,2208173	242,5261473	110,613699	0,130931732	FALSE	279,4706262	0,202146258	279,4706262	292,8937391	86,02008181	0,101820646	FALSE	34,7%	311,2493417	98,28709133	0,116340916	FALSE	36,8%
3361	1	916,5161423	Empty	460,6964482	329,0150554	117,6062803	0,128318831	FALSE	323,228167	0,017251064	323,228167	296,8548136	145,8702111	0,159157274	FALSE	32,4%	278,9396955	157,5776832	0,17193116	FALSE	30,4%
3361	2	916,5161423	Empty	437,3419521	312,9172673	117,6062803	0,128318831	FALSE	314,3870871	0,017251064	314,3870871	281,8060877	145,8702111	0,159157274	FALSE	30,7%	338,7124874	157,5776832	0,17193116	FALSE	37,0%
3361	3	916,5161423	Empty	396,1612556	274,5838196	117,6062803	0,128318831	FALSE	278,9008882	0,017251064	278,9008882	337,8552411	145,8702111	0,159157274	FALSE	36,9%	298,8639594	157,5776832	0,17193116	FALSE	32,6%
3362	1	1149,369945	Empty	476,1087602	329,4155909	156,4590281	0,136125909	FALSE	347,3990942	0,072045607	347,3990942	334,31352	151,561099	0,131864505	FALSE	29,1%	415,4349198	211,4374888	0,183959473	FALSE	36,1%
3362	2	1149,369945	Empty	574,2154388	393,5765023	156,4590281	0,136125909	FALSE	377,6142386	0,072045607	377,6142386	403,2019586	151,561099	0,131864505	FALSE	35,1%	304,6522745	211,4374888	0,183959473	FALSE	26,5%
3362	3	1149,369945	Empty	593,0757639	426,3778516	156,4590281	0,136125909	FALSE	424,356612	0,072045607	424,356612	411,8544661	151,561099	0,131864505	FALSE	35,8%	429,2827505	211,4374888	0,183959473	FALSE	37,3%
3363	1	840,0834636	Non-Empty	621,1096096	253,6611927	0	0	TRUE	262,2108599	0	265,123632	265,3017084	0	0	TRUE	31,6%	315,0312989	0	0	TRUE	37,5%
3363	2	840,0834636	Non-Empty	642,3122707	273,0954021	0	0	TRUE	279,8766177	0	274,1740901	274,3582455	0	0	TRUE	32,7%	252,0250391	0	0	TRUE	30,0%
3363	3	840,0834636	Non-Empty	704,6558359	313,3268688	0	0	TRUE	297,995986	0	300,7857415	300,4235098	0	0	TRUE	35,8%	273,0271257	0	0	TRUE	32,5%
3364	1	1389,746987	Empty	687,607248	477,5550959	203,5754784	0,146483842	FALSE	476,6210003	0,066342558	448,5659012	238,8951347	0,171898293	FALSE	32,3%	401,4824629	268,7433031	0,193375705	FALSE	28,9%	
3364	2	1389,746987	Empty	674,4490478	475,301704	203,5754784	0,146483842	FALSE	485,2724167	0,066342558	485,2724167	439,9820477	238,8951347	0,171898293	FALSE	31,7%	463,2489957	268,7433031	0,193375705	FALSE	33,3%
3364	3	1389,746987	Empty	655,0448606	436,8901871	203,5754784	0,146483842	FALSE	427,85357	0,066342558	427,85357	501,1990381	238,8951347	0,171898293	FALSE	36,1%	525,0155284	268,7433031	0,193375705	FALSE	37,8%
3365	1	620,7479499	Non-Empty	531,4806083	239,4540505																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3380	1	933,3745056	Empty	470,6989059	324,0776891	104,2617656	0,111704107	FALSE	298,3581699	0,143314529	298,3581699	332,2313061	107,1638732	0,114813371	FALSE	35,6%	273,9251266	161,9027079	0,173459535	FALSE	29,3%
3380	2	933,3745056	Empty	364,2867932	260,0250276	104,2617656	0,111704107	FALSE	276,6649596	0,143314529	276,6649596	257,1229199	107,1638732	0,114813371	FALSE	27,5%	375,3788772	161,9027079	0,173459535	FALSE	40,2%
3380	3	933,3745056	Empty	461,0938994	349,2717889	104,2617656	0,111704107	FALSE	358,3513761	0,143314529	358,3513761	344,0202795	107,1638732	0,114813371	FALSE	36,9%	284,0705017	161,9027079	0,173459535	FALSE	30,4%
3381	1	779,8730199	Non-Empty	445,4843936	230,8635498	0	0	TRUE	248,8327394	0	235,1185172	228,950205	0	0	TRUE	29,4%	259,9576733	0	0	TRUE	33,3%
3381	2	779,8730199	Non-Empty	477,992721	259,7769449	0	0	TRUE	274,1516522	0	252,2755805	245,6571543	0	0	TRUE	31,5%	269,2418759	0	0	TRUE	34,5%
3381	3	779,8730199	Non-Empty	554,1664556	289,2325252	0	0	TRUE	256,8886283	0	292,4789223	305,2656607	0	0	TRUE	39,1%	250,6734707	0	0	TRUE	32,1%
3382	1	900,4410234	Empty	524,1554866	339,2806126	97,08558206	0,107820034	FALSE	332,8658316	0,063142625	332,8658316	318,4078579	101,9608569	0,113234353	FALSE	35,4%	336,4285142	153,2869157	0,170235375	FALSE	37,4%
3382	2	900,4410234	Empty	426,5574492	263,995416	97,08558206	0,107820034	FALSE	279,8934758	0,063142625	279,8934758	259,1201411	101,9608569	0,113234353	FALSE	28,8%	207,7940823	153,2869157	0,170235375	FALSE	23,1%
3382	3	900,4410234	Empty	485,1083667	297,1649948	97,08558206	0,107820034	FALSE	287,6817159	0,063142625	287,6817159	322,9130244	101,9608569	0,113234353	FALSE	35,9%	356,2184268	153,2869157	0,170235375	FALSE	39,6%
3383	1	1646,647001	Empty	848,0124138	562,525472	242,7654491	0,147430171	FALSE	565,7021991	0,020833626	565,7021991	545,8534065	259,4375146	0,157555028	FALSE	33,1%	555,0495508	250,2413703	0,151970259	FALSE	33,7%
3383	2	1646,647001	Empty	840,7114391	547,6822405	242,7654491	0,147430171	FALSE	543,3167109	0,020833626	543,3167109	541,153874	259,4375146	0,157555028	FALSE	32,9%	536,5478991	250,2413703	0,151970259	FALSE	32,6%
3383	3	1646,647001	Empty	823,9141546	536,4392881	242,7654491	0,147430171	FALSE	537,6280906	0,020833626	537,6280906	559,6397201	259,4375146	0,157555028	FALSE	34,0%	555,0495508	250,2413703	0,151970259	FALSE	33,7%
3384	1	1222,192146	Empty	621,9549169	425,1996689	164,7340315	0,134785706	FALSE	423,3462598	0,015173969	423,3462598	408,7676807	173,9277034	0,142307987	FALSE	33,4%	333,3251306	249,3702534	0,204035228	FALSE	27,3%
3384	2	1222,192146	Empty	578,8949219	389,3779903	164,7340315	0,134785706	FALSE	394,7628975	0,015173969	394,7628975	380,4673428	173,9277034	0,142307987	FALSE	31,1%	402,7678662	249,3702534	0,204035228	FALSE	33,0%
3384	3	1222,192146	Empty	606,0478234	407,6144864	164,7340315	0,134785706	FALSE	404,0829882	0,015173969	404,0829882	432,9571221	173,9277034	0,142307987	FALSE	35,4%	486,0991488	249,3702534	0,204035228	FALSE	39,8%
3385	1	1240,498597	Empty	577,5418844	386,683846	182,876017	0,147421382	FALSE	391,4994971	0,020598557	391,4994971	397,8157274	196,6159999	0,158497559	FALSE	32,1%	487,8365269	273,9261133	0,220819366	FALSE	39,3%
3385	2	1240,498597	Empty	605,274365	407,1396829	182,876017	0,147421382	FALSE	404,6786904	0,020598557	404,6786904	416,9180942	196,6159999	0,158497559	FALSE	33,6%	404,207408	273,9261133	0,220819366	FALSE	32,6%
3385	3	1240,498597	Empty	644,7034162	446,6750681	182,876017	0,147421382	FALSE	444,3204095	0,020598557	444,3204095	425,7647756	196,6159999	0,158497559	FALSE	34,3%	348,4546621	273,9261133	0,220819366	FALSE	28,1%
3386	1	638,839161	Non-Empty	481,1206112	209,0573819	0	0	TRUE	230,2026423	0	202,4141238	199,2903683	0	0	TRUE	31,2%	192,3386721	0	0	TRUE	30,1%
3386	2	638,839161	Non-Empty	501,6366042	204,8342977	0	0	TRUE	201,2404808	0	211,045487	207,7885281	0	0	TRUE	32,5%	240,4233402	0	0	TRUE	37,6%
3386	3	638,839161	Non-Empty	535,7074146	224,9474814	0	0	TRUE	207,3960379	0	225,3795502	231,7602646	0	0	TRUE	36,3%	206,0771487	0	0	TRUE	32,3%
3387	1	811,5583094	Non-Empty	599,9040328	263,0690848	0	0	TRUE	268,8578355	0	264,6783297	265,5060791	0	0	TRUE	32,7%	244,5792165	0	0	TRUE	30,1%
3387	2	811,5583094	Non-Empty	583,531765	241,9059561	0	0	TRUE	242,9038457	0	257,4548669	258,2600258	0	0	TRUE	31,8%	311,2826392	0	0	TRUE	38,4%
3387	3	811,5583094	Non-Empty	655,9936075	306,5832685	0	0	TRUE	299,7966282	0	289,4251128	287,7922045	0	0	TRUE	35,5%	255,6964537	0	0	TRUE	31,5%
3388	1	1058,355561	Empty	561,8716391	366,3198983	143,7202077	0,135795769	FALSE	354,8030515	0,107324422	354,8030515	353,6919478	171,61901	0,162156289	FALSE	33,4%	291,9601548	185,0308291	0,174828608	FALSE	27,6%
3388	2	1058,355561	Empty	513,8885438	351,3859253	143,7202077	0,135795769	FALSE	372,9182006	0,107324422	372,9182006	323,487123	171,61901	0,162156289	FALSE	30,6%	389,2802063	185,0308291	0,174828608	FALSE	36,8%
3388	3	1058,355561	Empty	534,7000597	340,6497374	143,7202077	0,135795769	FALSE	330,6343089	0,107324422	330,6343089	381,1764902	171,61901	0,162156289	FALSE	36,0%	377,1151999	185,0308291	0,174828608	FALSE	35,6%
3389	1	1291,913282	Empty	665,1240187	431,1913119	174,3765487	0,134975428	FALSE	427,7359126	0,015989324	427,7359126	415,2571222	185,3781884	0,143491201	FALSE	32,1%	455,9693936	214,3575454	0,165922549	FALSE	35,3%
3389	2	1291,913282	Empty	691,3740643	455,9654858	174,3765487	0,134975428	FALSE	451,0341602	0,015989324	451,0341602	431,6458228	185,3781884	0,143491201	FALSE	33,4%	471,1683734	214,3575454	0,165922549	FALSE	36,5%
3389	3	1291,913282	Empty	626,8471212	404,7565115	174,3765487	0,134975428	FALSE	413,1432092	0,015989324	413,1432092	445,0103369	185,3781884	0,143491201	FALSE	34,4%	364,7755149	214,3575454	0,165922549	FALSE	28,2%
3390	1	1076,293289	Non-Empty	809,6155442	328,4134428	0	0	TRUE	330,5212335	0	344,9354189	348,8648759	0	0	TRUE	32,4%	441,556221	0	0	TRUE	41,0%
3390	2	1076,293289	Non-Empty	837,1003511	340,221007	0	0	TRUE	326,6515551	0	356,6452773	360,7081314	0	0	TRUE	33,5%	317,3685339	0	0	TRUE	29,5%
3390	3	1076,293289	Non-Empty	879,5070698	407,6588389	0	0	TRUE	419,1205001	0	374,7125926	366,7202814	0	0	TRUE	34,1%	317,3685339	0	0	TRUE	29,5%
3391	1	751,8708042	Non-Empty	524,0438562	253,7205458	0	0	TRUE	270,2581449	0	244,3563598	231,4005894	0	0	TRUE	30,8%	267,3318415	0	0	TRUE	35,6%
3391	2	751,8708042	Non-Empty	543,0782481	257,9135341	0	0	TRUE	259,6097296	0	253,2319046	239,8055529	0	0	TRUE	31,9%	200,4988811	0	0	TRUE	26,7%
3391	3	751,8708042	Non-Empty	545,3314282	240,2367242	0	0	TRUE	222,0029297	0	254,2825398	280,6646618	0	0	TRUE	37,3%	284,0400816	0	0	TRUE	37,8%
3392	1	1365,945777	Empty	704,8378018	417,6188417	138,0048828	0,101032475	FALSE	379,3647497	0,185251392	379,3647497	440,0268788	147,9012128	0,108277514	FALSE	32,2%	344,9358022	142,8069199	0,104548015	FALSE	25,3%
3392	2	1365,945777	Empty	721,9331994	481,5955129	138,0048828	0,101032475	FALSE	490,2226945	0,185251392	490,2226945	450,6994541	147,9012128	0,108277514	FALSE	33,0%	482,910123	142,8069199	0,104548015	FALSE	35,4%
3392	3	1365,945777	Empty	686,0693795	466,7314219	138,0048828	0,101032475	FALSE	496,3583324	0,185251392	496,3583324	475,2194437	147,9012128	0,108277514	FALSE	34,8%	538,0998514	142,8069199	0,104548015	FALSE	39,4%
3393	1	1119,904614	Non-Empty	836,2816046	353,5158404	0	0	TRUE	356,1122683	0	363,5709746	356,6442517	0	0	TRUE	31,8%	346,6371424	0	0	TRUE	31,0%
3393	2	1119,904614	Non-Empty	894,8573396	400,4760571	0	0	TRUE	391,4569666	0	389,0366036	381,6247117	0	0	TRUE	34,1%	346,6371424	0	0	TRUE	31,0%
3393	3	1119,904614	Non-Empty	844,8522457	365,9127164	0	0	TRUE	372,335379	0	367,2970357	381,6356505	0	0	TRUE	34,1%	426,6303291	0	0	TRUE	38,1%
3394	1	929,3517466	Non-Empty	650,725341	360,2864314	0	0	TRUE	355,2165465	0	338,7099861	314,0311336	0	0	TRUE	33,8%	262,1248516	30,7271382	0,03306298	FALSE	28,2%
3394	2	929,3517466	Non-Empty	557,2201579	286,0488517	0	0	TRUE	300,24657	0	290,034683	268,9068134	0	0	TRUE	28,9%	333,6134475	30,7271382	0,03306298	FALSE	35,9%
3394	3	929,3517466	Non-Empty	577,5133216	283,0164635	0	0	TRUE	273,8886301	0	300,6022922	346,4137997	0	0	TRUE	37,3%	333,6134475	30,7271382	0,03306298	FALSE	35,9%
3395	1	823,344632	Non-Empty	651,7555639	257,8991525	0	0	TRUE	261,5695346	0	266,1901815	267,9743839	0	0	TRUE	32,5%	256,6268983	0	0	TRUE	31,2%
3395	2	823,344632	Non-Empty	648,7932929	259,4255294	0	0	TRUE	267,5845593	0	264,98033	266,7564231	0	0	TRUE	32,4%	342,1691977	0	0	TRUE	41,6%
3395	3	823,344632	Non-Empty	715,3761555	306,0199501	0	0	TRUE	294,1905381	0	292,1741205	288,613825	0	0	TRUE	35,1%	224,548536	0	0	TRUE	27,3%
3396	1	1461,393825	Empty	742,72225																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3411	1	1403,385377	Empty	797,3757589	508,1242978	159,5359423	0,113679353	FALSE	506,373033	0,027358962	506,373033	479,8321311	183,4584323	0,130725626	FALSE	34,2%	379,7395726	283,5509908	0,202047845	FALSE	27,1%
3411	2	1403,385377	Empty	737,2609584	448,893615	159,5359423	0,113679353	FALSE	448,0264679	0,027358962	448,0264679	443,6572004	183,4584323	0,130725626	FALSE	31,6%	511,8229022	283,5509908	0,202047845	FALSE	36,5%
3411	3	1403,385377	Empty	731,2492483	446,367464	159,5359423	0,113679353	FALSE	448,9858759	0,027358962	448,9858759	479,8960455	183,4584323	0,130725626	FALSE	34,2%	511,8229022	283,5509908	0,202047845	FALSE	36,5%
3412	1	803,2553538	Non-Empty	618,5012876	344,3923291	0	0	TRUE	365,4875057	0	294,1701432	255,0881685	0	0	TRUE	31,8%	280,749444	0	0	TRUE	35,0%
3412	2	803,2553538	Non-Empty	542,7875434	271,7128489	0	0	TRUE	295,8422896	0	258,1593484	223,8615878	0	0	TRUE	27,9%	311,9438267	0	0	TRUE	38,8%
3412	3	803,2553538	Non-Empty	527,5789282	187,1501757	0	0	TRUE	141,9255584	0	250,9258622	324,3055975	0	0	TRUE	40,4%	210,562083	0	0	TRUE	26,2%
3413	1	1141,062184	Empty	545,3456366	393,4764183	151,8692183	0,133094603	FALSE	409,4991188	0,102114462	409,4991188	343,6100131	201,7356235	0,176796345	FALSE	30,1%	285,2655459	260,0800906	0,227928061	FALSE	25,0%
3413	2	1141,062184	Empty	590,552677	412,0484454	151,8692183	0,133094603	FALSE	401,4361326	0,102114462	401,4361326	372,0939519	201,7356235	0,176796345	FALSE	32,6%	434,6903557	260,0800906	0,227928061	FALSE	38,1%
3413	3	1141,062184	Empty	508,8396265	335,5373201	151,8692183	0,133094603	FALSE	330,1269324	0,102114462	330,1269324	425,3582188	201,7356235	0,176796345	FALSE	37,3%	421,1062821	260,0800906	0,227928061	FALSE	36,9%
3414	1	1644,279964	Empty	907,1680325	600,6816926	212,397452	0,129173533	FALSE	590,0359012	0,009624301	590,0359012	567,8528614	227,3809997	0,138286061	FALSE	34,5%	459,6911727	335,5426885	0,204066641	FALSE	28,0%
3414	2	1644,279964	Empty	811,8730336	519,4787845	212,397452	0,129173533	FALSE	522,9250839	0,009624301	522,9250839	508,2017198	227,3809997	0,138286061	FALSE	30,9%	707,2171887	335,5426885	0,204066641	FALSE	43,0%
3414	3	1644,279964	Empty	812,7605433	524,1194867	212,397452	0,129173533	FALSE	531,3189787	0,009624301	531,3189787	568,2253043	227,3809997	0,138286061	FALSE	34,6%	477,3716024	335,5426885	0,204066641	FALSE	29,0%
3415	1	847,6849989	Non-Empty	671,9829029	281,9786749	0	0	TRUE	286,4820219	0	280,438982	266,1970224	0	0	TRUE	31,4%	297,1267006	0	0	TRUE	35,1%
3415	2	847,6849989	Non-Empty	721,7520115	308,6404732	0	0	TRUE	290,0365099	0	301,2091505	285,9123878	0	0	TRUE	33,7%	279,6486594	0	0	TRUE	33,0%
3415	3	847,6849989	Non-Empty	637,4728096	257,0658508	0	0	TRUE	271,1664671	0	266,0368664	295,5755887	0	0	TRUE	34,9%	270,9096388	0	0	TRUE	32,0%
3416	1	1107,139703	Non-Empty	695,6679159	330,3449584	0	0	TRUE	337,5013076	0	346,2237334	327,6615702	0	0	TRUE	29,6%	397,7103789	12,91371532	0,011664034	FALSE	35,9%
3416	2	1107,139703	Non-Empty	821,5256818	440,4067716	0	0	TRUE	431,7671679	0	408,8613003	386,9409365	0	0	TRUE	34,9%	354,7146622	12,91371532	0,011664034	FALSE	32,0%
3416	3	1107,139703	Non-Empty	707,3840253	336,3879733	0	0	TRUE	337,8712278	0	352,0546695	392,5371965	0	0	TRUE	35,5%	354,7146622	12,91371532	0,011664034	FALSE	32,0%
3417	1	1233,832675	Non-Empty	809,8244572	365,2453267	0	0	TRUE	366,6701033	0	388,5102371	395,4417177	0	0	TRUE	32,0%	315,3127947	0	0	TRUE	25,6%
3417	2	1233,832675	Non-Empty	819,7281271	389,6884447	0	0	TRUE	405,6526693	0	393,2614855	400,2777339	0	0	TRUE	32,4%	397,5683064	0	0	TRUE	32,2%
3417	3	1233,832675	Non-Empty	942,291812	478,8989036	0	0	TRUE	461,5099024	0	452,0609523	438,1132233	0	0	TRUE	35,5%	520,9515739	0	0	TRUE	42,2%
3418	1	1667,849558	Empty	826,158043	545,8882729	222,0429929	0,133131308	FALSE	542,0015284	0,137760827	542,0015284	535,4726755	215,1451477	0,128995536	FALSE	32,1%	412,0569495	316,3748736	0,189690294	FALSE	24,7%
3418	2	1667,849558	Empty	865,6799426	557,5709632	222,0429929	0,133131308	FALSE	525,8450094	0,137760827	525,8450094	561,0887153	215,1451477	0,128995536	FALSE	33,6%	706,3833421	316,3748736	0,189690294	FALSE	42,4%
3418	3	1667,849558	Empty	805,1606492	564,3903217	222,0429929	0,133131308	FALSE	600,0030199	0,137760827	600,0030199	571,2881669	215,1451477	0,128995536	FALSE	34,3%	549,4092661	316,3748736	0,189690294	FALSE	32,9%
3419	1	659,9112738	Non-Empty	517,5293913	237,5772143	0	0	TRUE	209,0920037	0	241,4767308	235,1179237	0	0	TRUE	35,6%	240,5926519	0	0	TRUE	36,5%
3419	2	659,9112738	Non-Empty	407,2608469	182,8068334	0	0	TRUE	209,8197862	0	190,0259571	185,0220032	0	0	TRUE	28,0%	206,222273	0	0	TRUE	31,3%
3419	3	659,9112738	Non-Empty	489,5219344	239,527226	0	0	TRUE	240,9994839	0	228,4085858	239,7713468	0	0	TRUE	36,3%	213,0963488	0	0	TRUE	32,3%
3420	1	969,2579126	Non-Empty	678,3906169	293,3540007	0	0	TRUE	314,144842	0	300,6920748	299,3684032	0	0	TRUE	30,9%	378,2469903	0	0	TRUE	39,0%
3420	2	969,2579126	Non-Empty	758,0874488	342,0232561	0	0	TRUE	331,7865207	0	336,0171591	334,5379836	0	0	TRUE	34,5%	248,2245874	0	0	TRUE	25,6%
3420	3	969,2579126	Non-Empty	750,2622192	333,8806558	0	0	TRUE	323,3265499	0	332,5486787	335,3515259	0	0	TRUE	34,6%	342,786335	0	0	TRUE	35,4%
3421	1	1025,468408	Non-Empty	712,574184	294,7889463	0	0	TRUE	312,3802508	0	313,3997813	303,6940224	0	0	TRUE	29,6%	331,1408401	0	0	TRUE	32,3%
3421	2	1025,468408	Non-Empty	837,2852747	394,0140655	0	0	TRUE	386,1193985	0	368,2494088	356,8449976	0	0	TRUE	34,8%	416,5965408	0	0	TRUE	40,6%
3421	3	1025,468408	Non-Empty	781,7385759	336,6653963	0	0	TRUE	326,9687588	0	343,819218	364,9293882	0	0	TRUE	35,6%	277,7310272	0	0	TRUE	27,1%
3422	1	1629,180997	Empty	812,3691323	556,3647997	100,0884882	0,061434849	FALSE	562,064887	0,027928922	562,064887	503,6650195	152,7882685	0,093782255	FALSE	30,9%	558,1453416	104,1694563	0,063939769	FALSE	34,3%
3422	2	1629,180997	Empty	809,9293357	542,9906472	100,0884882	0,061434849	FALSE	537,7563785	0,027928922	537,7563785	502,1523571	152,7882685	0,093782255	FALSE	30,8%	527,9753231	104,1694563	0,063939769	FALSE	32,4%
3422	3	1629,180997	Empty	791,9957884	529,82555	100,0884882	0,061434849	FALSE	529,3597314	0,027928922	529,3597314	623,3636203	152,7882685	0,093782255	FALSE	38,3%	543,0603323	104,1694563	0,063939769	FALSE	33,3%
3423	1	858,1837231	Non-Empty	625,8961586	244,2895099	0	0	TRUE	266,7569103	0	259,4341058	245,8015327	0	0	TRUE	28,6%	384,7030483	0	0	TRUE	44,8%
3423	2	858,1837231	Non-Empty	772,1817467	351,7157949	0	0	TRUE	335,3238923	0	320,0695166	303,2507138	0	0	TRUE	35,3%	236,7403374	0	0	TRUE	27,6%
3423	3	858,1837231	Non-Empty	672,3279653	262,1784183	0	0	TRUE	256,1029205	0	278,6801007	309,1314766	0	0	TRUE	36,0%	236,7403374	0	0	TRUE	27,6%
3424	1	1005,972593	Non-Empty	711,9211467	326,1828666	0	0	TRUE	359,1092553	0	316,6152683	288,8139995	0	0	TRUE	28,7%	364,9116268	0	0	TRUE	36,3%
3424	2	1005,972593	Non-Empty	805,7614604	393,7894029	0	0	TRUE	400,4820145	0	358,3492107	326,8837789	0	0	TRUE	32,5%	345,186674	0	0	TRUE	34,3%
3424	3	1005,972593	Non-Empty	744,2839926	286,0003234	0	0	TRUE	246,3813231	0	331,0081139	390,2752145	0	0	TRUE	38,8%	295,874292	0	0	TRUE	29,4%
3425	1	960,8253439	Empty	489,5493696	344,2952422	115,4751301	0,120183268	FALSE	347,9285	0,080542594	347,9285	309,2583323	148,5714241	0,15462896	FALSE	32,2%	343,8743336	121,8965142	0,126866464	FALSE	35,8%
3425	2	960,8253439	Empty	465,5645832	322,2510357	115,4751301	0,120183268	FALSE	327,8249093	0,080542594	327,8249093	294,1066531	148,5714241	0,15462896	FALSE	30,6%	343,8743336	121,8965142	0,126866464	FALSE	35,8%
3425	3	960,8253439	Empty	452,3736548	294,279084	115,4751301	0,120183268	FALSE	285,0719345	0,080542594	285,0719345	357,4603585	148,5714241	0,15462896	FALSE	37,2%	273,0766767	121,8965142	0,126866464	FALSE	28,4%
3426	1	996,6259245	Non-Empty	792,7638756	356,2964467	0	0	TRUE	348,9871482	0	345,9082007	345,2676324	0	0	TRUE	34,6%	379,1511669	0	0	TRUE	38,0%
3426	2	996,6259245	Non-Empty	699,0677998	278,6477857	0	0	TRUE	287,3859021	0	305,02561	304,4607499	0	0	TRUE	30,5%	324,9867145	0	0	TRUE	32,6%
3426	3	996,6259245	Non-Empty	792,2686406	361,6816921	0	0	TRUE	360,2528742	0	345,6921138	346,8975422	0	0	TRUE	34,8%	292,4880431	0	0	TRUE	29,3%
3427	1	1231,179484	Empty	600,1116749	438,183381	185,9349696	0,151021823	FALSE	456,8055232	0,11025312	456,8055232	398,9490476	225,1693031	0,182889096	FALSE	32,4%	456,5047526	216,3978277	0,175764647	FALSE	37,1%
3427	2	1231,179484	Empty	582,9224124	390,9120017	185,9349696	0,151021823	FALSE	379,4520271	0,11025312	379,4520271	387,521774									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3442	1	1553,320995	Empty	792,2753604	538,6181291	230,0153015	0,148079697	FALSE	535,2080619	0,031514105	535,2080619	529,4542778	231,7455614	0,149193607	FALSE	34,1%	593,403526	327,4515105	0,210807368	FALSE	38,2%
3442	2	1553,320995	Empty	717,7825633	481,4031964	230,0153015	0,148079697	FALSE	495,2709937	0,031514105	495,2709937	479,6729365	231,7455614	0,149193607	FALSE	30,9%	383,9669874	327,4515105	0,210807368	FALSE	24,7%
3442	3	1553,320995	Empty	794,0045631	533,299669	230,0153015	0,148079697	FALSE	522,841939	0,031514105	522,841939	544,1937803	231,7455614	0,149193607	FALSE	35,0%	575,9504811	327,4515105	0,210807368	FALSE	37,1%
3443	1	1052,592414	Non-Empty	706,2198212	352,9220415	0	0	TRUE	328,6652633	0	364,4437943	342,5211428	0	0	TRUE	32,5%	339,8996337	0	0	TRUE	32,3%
3443	2	1052,592414	Non-Empty	665,0532579	363,7138395	0	0	TRUE	391,4154227	0	343,1998443	322,5550955	0	0	TRUE	30,6%	383,757651	0	0	TRUE	36,5%
3443	3	1052,592414	Non-Empty	668,4423398	335,9565332	0	0	TRUE	332,5117281	0	344,9487755	387,5161759	0	0	TRUE	36,8%	328,9351294	0	0	TRUE	31,3%
3444	1	1607,389655	Empty	835,9178477	596,2462119	204,8181667	0,127422847	FALSE	623,2492383	0,377314155	623,2492383	534,9052391	225,7818816	0,140464934	FALSE	33,3%	615,5960379	155,7012882	0,096865927	FALSE	38,3%
3444	2	1607,389655	Empty	822,8221458	461,7641732	204,8181667	0,127422847	FALSE	367,3808626	0,377314155	367,3808626	526,5252774	225,7818816	0,140464934	FALSE	32,8%	393,2974687	155,7012882	0,096865927	FALSE	24,5%
3444	3	1607,389655	Empty	748,6736474	549,3792695	204,8181667	0,127422847	FALSE	616,7595537	0,377314155	616,7595537	545,959138	225,7818816	0,140464934	FALSE	34,0%	598,496148	155,7012882	0,096865927	FALSE	37,2%
3445	1	1367,359237	Empty	736,4670865	465,1999822	158,9904049	0,116275519	FALSE	459,6282773	0,012482847	459,6282773	456,8296319	166,4919111	0,121761646	FALSE	33,4%	395,0148907	220,8008614	0,161479775	FALSE	28,9%
3445	2	1367,359237	Empty	712,3029075	449,3762829	158,9904049	0,116275519	FALSE	452,1450576	0,012482847	452,1450576	441,8406212	166,4919111	0,121761646	FALSE	32,3%	425,4006515	220,8008614	0,161479775	FALSE	31,1%
3445	3	1367,359237	Empty	715,6754412	452,7829718	158,9904049	0,116275519	FALSE	455,585902	0,012482847	455,585902	468,6889838	166,4919111	0,121761646	FALSE	34,3%	546,9436948	220,8008614	0,161479775	FALSE	40,0%
3446	1	730,7709318	Non-Empty	555,1307283	219,9692678	0	0	TRUE	224,498212	0	231,8342831	233,5216376	0	0	TRUE	32,0%	233,2247655	0	0	TRUE	31,9%
3446	2	730,7709318	Non-Empty	587,6731172	239,1060117	0	0	TRUE	230,2293109	0	245,4246701	247,2109392	0	0	TRUE	33,8%	272,0955597	0	0	TRUE	37,2%
3446	3	730,7709318	Non-Empty	607,0383007	271,6956233	0	0	TRUE	276,0434088	0	253,5119785	250,0383549	0	0	TRUE	34,2%	225,4506066	0	0	TRUE	30,9%
3447	1	1374,293161	Empty	625,293524	423,2572689	216,7481479	0,157716093	FALSE	423,9297894	0,038014103	416,6180717	251,690912	0,183142083	FALSE	30,3%	439,2070927	304,038031	0,221232296	FALSE	32,0%	
3447	2	1374,293161	Empty	716,4992236	513,3959868	216,7481479	0,157716093	FALSE	513,0015255	0,038014103	513,0015255	477,386241	251,690912	0,183142083	FALSE	34,7%	425,039122	304,038031	0,221232296	FALSE	30,9%
3447	3	1374,293161	Empty	640,6267398	437,6399053	216,7481479	0,157716093	FALSE	437,3618462	0,038014103	437,3618462	480,2888483	251,690912	0,183142083	FALSE	34,9%	510,0469464	304,038031	0,221232296	FALSE	37,1%
3448	1	722,6325899	Non-Empty	462,4450302	218,7360683	0	0	TRUE	246,1257273	0	217,573839	212,1986305	0	0	TRUE	29,4%	185,2904077	0	0	TRUE	25,6%
3448	2	722,6325899	Non-Empty	528,8208691	249,0169782	0	0	TRUE	240,3117081	0	248,8027314	242,6560064	0	0	TRUE	33,6%	277,9356115	0	0	TRUE	38,5%
3448	3	722,6325899	Non-Empty	544,6625529	254,8795433	0	0	TRUE	236,1951544	0	256,2560194	267,777953	0	0	TRUE	37,1%	259,4065707	0	0	TRUE	35,9%
3449	1	909,6700864	Non-Empty	753,3353902	330,1291496	0	0	TRUE	316,3289873	0	320,5437172	307,3501729	0	0	TRUE	33,8%	316,8513784	0	0	TRUE	34,8%
3449	2	909,6700864	Non-Empty	676,8685042	292,5847518	0	0	TRUE	317,7070776	0	288,0071071	276,1527661	0	0	TRUE	30,4%	255,5253052	0	0	TRUE	28,1%
3449	3	909,6700864	Non-Empty	707,684427	286,9561851	0	0	TRUE	275,6340215	0	301,1192621	326,1671474	0	0	TRUE	35,9%	337,2934028	0	0	TRUE	37,1%
3450	1	1414,470695	Empty	730,7654501	490,5550245	172,0905618	0,121664282	FALSE	510,9290822	0,097815732	510,9290822	454,9204952	207,7250911	0,146857119	FALSE	32,2%	476,9726761	185,6729101	0,131266707	FALSE	33,7%
3450	2	1414,470695	Empty	738,2309842	460,7923273	172,0905618	0,121664282	FALSE	493,9381537	0,097815732	443,9381537	459,5679843	207,7250911	0,146857119	FALSE	32,5%	493,4200098	185,6729101	0,131266707	FALSE	34,9%
3450	3	1414,470695	Empty	727,2277102	463,123343	172,0905618	0,121664282	FALSE	459,6034589	0,097815732	459,6034589	499,9822153	207,7250911	0,146857119	FALSE	35,3%	444,0780088	185,6729101	0,131266707	FALSE	31,4%
3451	1	1432,213118	Empty	782,3289015	520,2525862	108,1991674	0,075546834	FALSE	545,8934964	0,189498436	545,8934964	436,4269933	192,0247603	0,134075549	FALSE	30,5%	505,4869829	122,9647707	0,085856476	FALSE	35,3%
3451	2	1432,213118	Empty	798,5355994	516,9853183	108,1991674	0,075546834	FALSE	523,1522627	0,189498436	523,1522627	445,4679995	192,0247603	0,134075549	FALSE	31,1%	505,4869829	122,9647707	0,085856476	FALSE	35,3%
3451	3	1432,213118	Empty	714,5002937	394,9752136	108,1991674	0,075546834	FALSE	363,167359	0,189498436	363,167359	550,3181253	192,0247603	0,134075549	FALSE	38,4%	421,2391524	122,9647707	0,085856476	FALSE	29,4%
3452	1	1172,418235	Empty	616,6958652	441,1026503	156,1617588	0,13319629	FALSE	433,3246217	0,014098958	433,3246217	395,2241722	185,6982622	0,158389094	FALSE	33,7%	395,0539706	185,6884639	0,158534266	FALSE	33,7%
3452	2	1172,418235	Empty	548,185181	379,5840774	156,1617588	0,13319629	FALSE	378,79816	0,014098958	378,79816	351,3174753	185,6982622	0,158389094	FALSE	30,0%	382,3102941	185,6884639	0,158534266	FALSE	32,6%
3452	3	1172,418235	Empty	510,9827477	351,7315075	156,1617588	0,13319629	FALSE	360,2954536	0,014098958	360,2954536	425,8765877	185,6982622	0,158389094	FALSE	36,3%	395,0539706	185,6884639	0,158534266	FALSE	33,7%
3453	1	1005,286648	Non-Empty	774,5351653	376,3576001	0	0	TRUE	361,1660677	0	361,4398324	352,0131495	0	0	TRUE	35,0%	434,3831194	0	0	TRUE	43,2%
3453	2	1005,286648	Non-Empty	660,9954637	298,2527455	0	0	TRUE	318,49606	0	308,4560912	300,411273	0	0	TRUE	29,9%	297,8627105	0	0	TRUE	29,6%
3453	3	1005,286648	Non-Empty	718,7141172	330,6763023	0	0	TRUE	325,6245202	0	335,3907242	352,8622253	0	0	TRUE	35,1%	273,0408179	0	0	TRUE	27,2%
3454	1	1141,078545	Non-Empty	860,7193064	399,2197542	0	0	TRUE	404,5566463	0	386,4309954	381,7991164	0	0	TRUE	33,5%	376,4382828	0	0	TRUE	33,0%
3454	2	1141,078545	Non-Empty	812,12132	351,4996463	0	0	TRUE	357,714417	0	364,6123048	360,2419512	0	0	TRUE	31,6%	411,7293718	0	0	TRUE	36,1%
3454	3	1141,078545	Non-Empty	868,7472512	390,3591442	0	0	TRUE	378,8074815	0	390,0352445	399,0374772	0	0	TRUE	35,0%	352,9108901	0	0	TRUE	30,9%
3455	1	925,2398327	Non-Empty	726,7300178	329,6133279	0	0	TRUE	352,6574286	0	307,6326711	294,3179092	0	0	TRUE	31,8%	276,3703396	0	0	TRUE	29,9%
3455	2	925,2398327	Non-Empty	739,1817624	305,152281	0	0	TRUE	291,2835903	0	312,9036292	299,360733	0	0	TRUE	32,4%	288,3864414	0	0	TRUE	31,2%
3455	3	925,2398327	Non-Empty	719,8104243	290,4742237	0	0	TRUE	281,2988137	0	304,7035324	331,5611905	0	0	TRUE	35,8%	360,4830517	0	0	TRUE	39,0%
3456	1	1246,459371	Empty	632,6251917	423,6301892	147,5493531	0,118374779	FALSE	432,5264198	0,188963928	432,5264198	389,1151345	155,6509869	0,124874497	FALSE	31,2%	461,1899673	134,4087459	0,107832432	FALSE	37,0%
3456	2	1246,459371	Empty	689,945259	427,8481439	147,5493531	0,118374779	FALSE	383,6422619	0,188963928	383,6422619	424,3715644	155,6509869	0,124874497	FALSE	34,0%	361,4732176	134,4087459	0,107832432	FALSE	29,0%
3456	3	1246,459371	Empty	577,5626195	394,9810379	147,5493531	0,118374779	FALSE	430,2906894	0,188963928	430,2906894	432,9726722	155,6509869	0,124874497	FALSE	34,7%	423,7961862	134,4087459	0,107832432	FALSE	34,0%
3457	1	1313,495646	Empty	649,0544445	421,2174317	157,1255013	0,119623922	FALSE	414,9824603	0,04145576	414,9824603	419,7244457	168,0180608	0,127916725	FALSE	32,0%	560,6383856	248,4276386	0,189134726	FALSE	42,7%
3457	2	1313,495646	Empty	669,4452084	448,5748063	157,1255013	0,119623922	FALSE	449,3064455	0,04145576	449,3064455	432,9105538	168,0180608	0,127916725	FALSE	33,0%	400,4559897	248,4276386	0,189134726	FALSE	30,5%
3457	3	1313,495646	Empty	659,8021175	443,7034083	157,1255013	0,119623922	FALSE	449,2067405	0,04145576	449,2067405	460,8606467	168,0180608	0,127916725	FALSE						

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3473	1	954,2901175	Non-Empty	522,3695009	255,7270827	0	0	TRUE	259,5313622	0	282,3309487	278,1438025	0	0	TRUE	29,1%	344,9241389	33,16563025	0,034754243	FALSE	36,1%
3473	2	954,2901175	Non-Empty	617,19475	346,0544438	0	0	TRUE	345,3608352	0	333,5822229	328,634988	0	0	TRUE	34,4%	264,4418398	33,16563025	0,034754243	FALSE	27,7%
3473	3	954,2901175	Non-Empty	626,0659596	352,508591	0	0	TRUE	349,3979202	0	338,3769458	347,511327	0	0	TRUE	36,4%	344,9241389	33,16563025	0,034754243	FALSE	36,1%
3474	1	1126,767455	Empty	555,8213766	375,3899607	154,4893265	0,137108439	FALSE	389,7993938	0,069404828	339,7746424	172,1046448	0,152741938	FALSE	31,8%	328,6405077	201,2387795	0,178598324	FALSE	29,2%	
3474	2	1126,767455	Empty	574,865027	375,0548417	154,4893265	0,137108439	FALSE	370,0855053	0,069404828	370,0855053	370,0327805	172,1046448	FALSE	32,8%	446,0121176	201,2387795	0,178598324	FALSE	39,6%	
3474	3	1126,767455	Empty	580,6035984	376,3226526	154,4893265	0,137108439	FALSE	366,8825559	0,069404828	366,8825559	398,9600321	172,1046448	FALSE	35,4%	352,1148297	201,2387795	0,178598324	FALSE	31,3%	
3475	1	924,0189316	Empty	520,549888	350,5654904	98,78565518	0,106908692	FALSE	335,2670803	0,039190662	335,2670803	327,9070936	108,089869	0,116977981	FALSE	35,5%	314,5596363	110,4571353	0,119539905	FALSE	34,0%
3475	2	924,0189316	Empty	418,7097225	273,0596988	98,78565518	0,106908692	FALSE	282,0956627	0,039190662	282,0956627	263,755485	108,089869	0,116977981	FALSE	28,5%	314,5596363	110,4571353	0,119539905	FALSE	34,0%
3475	3	924,0189316	Empty	448,8172839	300,3937424	98,78565518	0,106908692	FALSE	306,6561886	0,039190662	306,6561886	332,356353	108,089869	0,116977981	FALSE	36,0%	294,899659	110,4571353	0,119539905	FALSE	31,9%
3476	1	1111,162444	Empty	528,9085338	364,9370995	162,152834	0,145930809	FALSE	358,7058621	0,049231141	358,7058621	341,0193828	180,7817152	0,162696027	FALSE	30,7%	374,849981	259,2694975	0,233331768	FALSE	33,7%
3476	2	1111,162444	Empty	578,5290978	413,1502292	162,152834	0,145930809	FALSE	405,5115575	0,049231141	405,5115575	373,0127673	180,7817152	0,162696027	FALSE	33,6%	294,524985	259,2694975	0,233331768	FALSE	26,5%
3476	3	1111,162444	Empty	476,9454026	333,0751148	162,152834	0,145930809	FALSE	346,9450239	0,049231141	346,9450239	397,1302934	180,7817152	0,162696027	FALSE	35,7%	441,7874775	259,2694975	0,233331768	FALSE	39,8%
3477	1	1006,102238	Empty	478,1281145	323,373188	139,0314186	0,138188162	FALSE	336,1859627	0,063385725	336,1859627	314,8573114	147,5472952	0,146652387	FALSE	31,3%	383,277043	157,1043707	0,156151497	FALSE	38,1%
3477	2	1006,102238	Empty	512,1081036	336,0791766	139,0314186	0,138188162	FALSE	327,6179509	0,063385725	327,6179509	337,2338412	147,5472952	0,146652387	FALSE	33,5%	311,4125974	157,1043707	0,156151497	FALSE	31,0%
3477	3	1006,102238	Empty	518,5691233	346,6498732	139,0314186	0,138188162	FALSE	342,2983242	0,063385725	342,2983242	354,0110852	147,5472952	0,146652387	FALSE	35,2%	311,4125974	157,1043707	0,156151497	FALSE	31,0%
3478	1	843,1728199	Non-Empty	643,6074647	264,0544183	0	0	TRUE	271,9326497	0	270,5958994	273,6958994	0	0	TRUE	32,5%	307,3246727	0	0	TRUE	36,4%
3478	2	843,1728199	Non-Empty	658,5178917	254,7045891	0	0	TRUE	238,3225643	0	276,8654302	280,0366008	0	0	TRUE	33,2%	236,4035944	0	0	TRUE	28,0%
3478	3	843,1728199	Non-Empty	703,3412973	324,4138126	0	0	TRUE	332,9176059	0	295,7108581	289,4403197	0	0	TRUE	34,3%	299,4445529	0	0	TRUE	35,5%
3479	1	1583,547622	Empty	800,3244532	523,8633362	230,1766052	0,145355026	FALSE	510,6057139	0,057486665	510,6057139	516,0180295	234,4607599	0,148060441	FALSE	32,6%	495,8583464	228,8586025	0,144522715	FALSE	31,3%
3479	2	1583,547622	Empty	814,0112735	548,0000308	230,1766052	0,145355026	FALSE	545,1922829	0,057486665	545,1922829	524,8427581	234,4607599	0,148060441	FALSE	33,1%	543,844638	228,8586025	0,144522715	FALSE	34,3%
3479	3	1583,547622	Empty	758,82238	511,6842554	230,1766052	0,145355026	FALSE	527,7496256	0,057486665	527,7496256	542,6868348	234,4607599	0,148060441	FALSE	34,3%	543,844638	228,8586025	0,144522715	FALSE	34,3%
3480	1	1281,252837	Empty	686,3408328	478,0179731	179,1401924	0,139816426	FALSE	467,5874942	0,008840971	467,5874942	446,8200954	193,0456453	0,150669438	FALSE	34,9%	483,738316	180,476106	0,140859088	FALSE	37,8%
3480	2	1281,252837	Empty	583,1648843	393,5561698	179,1401924	0,139816426	FALSE	401,8398362	0,008840971	401,8398362	379,650717	193,0456453	0,150669438	FALSE	29,6%	392,2202562	180,476106	0,140859088	FALSE	30,6%
3480	3	1281,252837	Empty	605,4242622	409,678694	179,1401924	0,139816426	FALSE	411,8255065	0,008840971	411,8255065	454,7820245	193,0456453	0,150669438	FALSE	35,5%	405,2942647	180,476106	0,140859088	FALSE	31,6%
3481	1	1005,673394	Non-Empty	645,0400368	341,9713393	0	0	TRUE	394,8559226	0	312,8474585	289,3171481	0	0	TRUE	28,8%	341,5494545	0	0	TRUE	34,0%
3481	2	1005,673394	Non-Empty	719,5687363	324,1530354	0	0	TRUE	284,6906152	0	348,9942291	322,7451983	0	0	TRUE	32,1%	332,0619696	0	0	TRUE	33,0%
3481	3	1005,673394	Non-Empty	708,9244628	339,549019	0	0	TRUE	326,126856	0	343,8317062	393,6110474	0	0	TRUE	39,1%	332,0619696	0	0	TRUE	33,0%
3482	1	1044,187185	Non-Empty	639,3047677	299,4660368	0	0	TRUE	325,8440937	0	311,5279766	306,2481385	0	0	TRUE	29,3%	281,5785667	0	0	TRUE	27,0%
3482	2	1044,187185	Non-Empty	748,1885455	377,6987802	0	0	TRUE	373,4258027	0	364,5861497	358,407071	0	0	TRUE	34,3%	363,7056486	0	0	TRUE	34,8%
3482	3	1044,187185	Non-Empty	755,3442347	367,0223676	0	0	TRUE	344,9172883	0	368,0730584	379,5319752	0	0	TRUE	36,3%	398,9029694	0	0	TRUE	38,2%
3483	1	785,8110675	Non-Empty	581,7203414	291,7503361	0	0	TRUE	278,1829595	0	283,0445312	274,2590255	0	0	TRUE	34,9%	290,0017035	0	0	TRUE	36,9%
3483	2	785,8110675	Non-Empty	496,8602145	220,2499608	0	0	TRUE	220,0423359	0	241,7545966	234,2507018	0	0	TRUE	29,8%	224,5174479	0	0	TRUE	28,6%
3483	3	785,8110675	Non-Empty	536,4383976	273,8107706	0	0	TRUE	287,5857722	0	261,0119398	277,3013403	0	0	TRUE	35,3%	271,2919162	0	0	TRUE	34,5%
3484	1	789,1482308	Non-Empty	636,0008302	263,429192	0	0	TRUE	254,4846357	0	266,9633302	264,9296809	0	0	TRUE	33,6%	295,9305866	0	0	TRUE	37,5%
3484	2	789,1482308	Non-Empty	606,0801359	246,9493433	0	0	TRUE	251,4456325	0	254,4040256	252,4660493	0	0	TRUE	32,0%	260,0602124	0	0	TRUE	33,0%
3484	3	789,1482308	Non-Empty	637,9485103	278,7696956	0	0	TRUE	283,2179626	0	267,780875	271,7525007	0	0	TRUE	34,4%	233,1574318	0	0	TRUE	29,5%
3485	1	1278,664037	Empty	587,3514209	386,5625067	179,1994147	0,140145816	FALSE	399,6546607	0,039770965	399,6546607	398,8938599	190,2486691	0,148787065	FALSE	31,2%	476,0983118	208,7788653	0,163278906	FALSE	37,2%
3485	2	1278,664037	Empty	647,2198481	423,9947379	179,1994147	0,140145816	FALSE	414,6506959	0,039770965	414,6506959	439,5529051	190,2486691	0,148787065	FALSE	34,4%	380,8786494	208,7788653	0,163278906	FALSE	29,8%
3485	3	1278,664037	Empty	685,735973	468,1067928	179,1994147	0,140145816	FALSE	464,3586807	0,039770965	464,3586807	440,2172724	190,2486691	0,148787065	FALSE	34,4%	421,6870761	208,7788653	0,163278906	FALSE	33,0%
3486	1	1283,018764	Empty	656,4375846	432,5434413	138,3289676	0,107815233	FALSE	434,6280398	0,114209109	434,6280398	398,8335456	146,9041386	0,114498823	FALSE	31,1%	368,5266662	177,211018	0,138120364	FALSE	28,7%
3486	2	1283,018764	Empty	708,1714957	452,8888322	138,3289676	0,107815233	FALSE	423,5849105	0,114209109	423,5849105	430,2656568	146,9041386	0,114498823	FALSE	33,5%	395,8249377	177,211018	0,138120364	FALSE	30,9%
3486	3	1283,018764	Empty	596,3459088	397,5864902	138,3289676	0,107815233	FALSE	424,8058134	0,114209109	424,8058134	453,9195613	146,9041386	0,114498823	FALSE	35,4%	518,6671598	177,211018	0,138120364	FALSE	40,4%
3487	1	839,7638818	Non-Empty	661,4871323	288,2373441	0	0	TRUE	270,2228715	0	291,5254777	286,1814223	0	0	TRUE	34,1%	283,4203101	0	0	TRUE	33,8%
3487	2	839,7638818	Non-Empty	586,1861302	258,4044707	0	0	TRUE	285,8581269	0	258,3394041	253,6036943	0	0	TRUE	30,2%	335,9055527	0	0	TRUE	40,0%
3487	3	839,7638818	Non-Empty	657,7965663	293,122067	0	0	TRUE	283,6828835	0	289,899	299,9787653	0	0	TRUE	35,7%	220,438019	0	0	TRUE	26,3%
3488	1	1477,577913	Empty	759,5592919	494,0197661	186,2153252	0,126027415	FALSE	484,3316682	0,16689633	484,3316682	491,5631013	214,1707938	0,144947209	FALSE	33,3%	476,6380364	154,6204208	0,104644513	FALSE	32,3%
3488	2	1477,577913	Empty	669,0303598	460,9310665	186,2153252	0,126027415	FALSE	508,6832012	0,16689633	508,6832012	432,9755979	214,1707938	0,144947209	FALSE	29,3%	492,5259709	154,6204208	0,104644513	FALSE	33,3%
3488	3	1477,577913	Empty	816,5425449	522,6270802	186,2153252	0,126027415	FALSE	484,5630434	0,16689633	484,5630434	553,0392136	214,1707								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3504	1	1066,604509	Non-Empty	728,6886052	321,3779323	0	0	TRUE	328,4390746	0	336,5007738	337,7639651	0	0	TRUE	31,7%	337,9341019	0	0	TRUE	31,7%
3504	2	1066,604509	Non-Empty	777,0953018	358,0574106	0	0	TRUE	353,3913347	0	358,8544798	360,2015848	0	0	TRUE	33,8%	359,0549833	0	0	TRUE	33,7%
3504	3	1066,604509	Non-Empty	803,9360481	387,1691664	0	0	TRUE	384,7740999	0	371,2492556	368,6389593	0	0	TRUE	34,6%	369,615424	0	0	TRUE	34,7%
3505	1	1735,224476	Empty	891,6601828	585,5569321	259,4172965	0,149500713	FALSE	568,2258237	0,086694597	568,2258237	580,2151287	291,1110413	0,167765638	FALSE	33,4%	571,8353387	280,9992331	0,16193826	FALSE	33,0%
3505	2	1735,224476	Empty	833,4443617	574,0270652	259,4172965	0,149500713	FALSE	603,3819111	0,086694597	603,3819111	542,3333204	291,1110413	0,167765638	FALSE	31,3%	650,7091785	280,9992331	0,16193826	FALSE	37,5%
3505	3	1735,224476	Empty	876,4363587	575,6404788	259,4172965	0,149500713	FALSE	563,6167413	0,086694597	563,6167413	612,6760269	291,1110413	0,167765638	FALSE	35,3%	512,6799588	280,9992331	0,16193826	FALSE	29,5%
3506	1	593,2779535	Non-Empty	455,3152329	176,5100415	0	0	TRUE	180,5570651	0	187,3505393	187,4082878	0	0	TRUE	31,6%	189,1610866	0	0	TRUE	31,9%
3506	2	593,2779535	Non-Empty	448,4427919	181,5959495	0	0	TRUE	197,6013222	0	184,522706	184,5795829	0	0	TRUE	31,1%	197,7593178	0	0	TRUE	33,3%
3506	3	593,2779535	Non-Empty	538,0765738	235,1719624	0	0	TRUE	215,1195661	0	221,4047082	221,2900827	0	0	TRUE	37,3%	206,357549	0	0	TRUE	34,8%
3507	1	1174,505469	Non-Empty	851,4896552	422,4929368	0	0	TRUE	435,9393859	0	399,7382994	386,7621662	0	0	TRUE	32,9%	360,3596326	0	0	TRUE	30,7%
3507	2	1174,505469	Non-Empty	821,8663959	376,3756996	0	0	TRUE	373,3281708	0	385,8314348	373,3067403	0	0	TRUE	31,8%	467,1328571	0	0	TRUE	39,8%
3507	3	1174,505469	Non-Empty	828,4789208	375,6368329	0	0	TRUE	365,2379125	0	388,935735	414,4365628	0	0	TRUE	35,3%	347,0129795	0	0	TRUE	29,5%
3508	1	966,1712915	Empty	509,3923424	358,5405082	150,4362558	0,155703504	FALSE	339,2324334	0,126041872	339,2324334	323,8558712	150,3979627	0,15566387	FALSE	33,5%	290,8902813	172,6445365	0,178689367	FALSE	30,1%
3508	2	966,1712915	Empty	470,2810616	331,9115054	150,4362558	0,155703504	FALSE	325,0857087	0,126041872	325,0857087	298,9901304	150,3979627	0,15566387	FALSE	30,9%	301,2792199	172,6445365	0,178689367	FALSE	31,2%
3508	3	966,1712915	Empty	381,129166	275,7192779	150,4362558	0,155703504	FALSE	301,8531494	0,126041872	301,8531494	343,3252899	150,3979627	0,15566387	FALSE	35,5%	374,0017902	172,6445365	0,178689367	FALSE	38,7%
3509	1	808,4927236	Empty	378,6559679	255,0483872	97,43827335	0,12051843	FALSE	257,6976622	0,109917995	257,6976622	242,9246297	127,1465952	0,157263747	FALSE	30,0%	226,0302238	120,3302379	0,148832803	FALSE	28,0%
3509	2	808,4927236	Empty	410,6218979	293,1405161	97,43827335	0,12051843	FALSE	301,91599	0,109917995	301,91599	263,4321942	127,1465952	0,157263747	FALSE	32,6%	321,6583954	120,3302379	0,148832803	FALSE	39,8%
3509	3	808,4927236	Empty	397,9854248	260,3038202	97,43827335	0,12051843	FALSE	248,8790713	0,109917995	248,8790713	302,1358996	127,1465952	0,157263747	FALSE	37,4%	260,8041044	120,3302379	0,148832803	FALSE	32,3%
3510	1	846,0059991	Non-Empty	564,6066189	290,2015441	0	0	TRUE	284,853637	0	288,9348458	268,2436745	0	0	TRUE	31,7%	282,0019997	0	0	TRUE	33,3%
3510	2	846,0059991	Non-Empty	558,8274095	291,4655029	0	0	TRUE	293,160764	0	285,977362	265,4979816	0	0	TRUE	31,4%	247,8199391	0	0	TRUE	29,3%
3510	3	846,0059991	Non-Empty	529,7434738	264,3389521	0	0	TRUE	267,9915981	0	271,0937913	312,264343	0	0	TRUE	36,9%	316,1840603	0	0	TRUE	37,4%
3511	1	982,7367001	Empty	475,7182788	342,635824	126,1616703	0,128377896	FALSE	351,6632423	0,146543834	351,6632423	311,5787913	150,2979186	0,152938135	FALSE	31,7%	380,4142065	170,9370657	0,173939841	FALSE	38,7%
3511	2	982,7367001	Empty	487,6673811	320,5818871	126,1616703	0,128377896	FALSE	295,6062661	0,146543834	295,6062661	319,4050343	150,2979186	0,152938135	FALSE	32,5%	327,5789	170,9370657	0,173939841	FALSE	33,3%
3511	3	982,7367001	Empty	445,6806593	319,518989	126,1616703	0,128377896	FALSE	335,4671917	0,146543834	335,4671917	351,7528746	150,2979186	0,152938135	FALSE	35,8%	274,7435936	170,9370657	0,173939841	FALSE	28,0%
3512	1	807,5260243	Non-Empty	624,0801524	303,0645327	0	0	TRUE	275,5604444	0	298,5443525	281,3133458	0	0	TRUE	34,8%	230,7217212	0	0	TRUE	28,6%
3512	2	807,5260243	Non-Empty	542,2509738	253,4810588	0	0	TRUE	258,2226753	0	259,3993179	244,427635	0	0	TRUE	30,3%	319,4608448	0	0	TRUE	39,6%
3512	3	807,5260243	Non-Empty	521,7294926	250,9804328	0	0	TRUE	273,7429046	0	249,582354	281,7850435	0	0	TRUE	34,9%	257,3434583	0	0	TRUE	31,9%
3513	1	1644,389857	Empty	767,3285195	526,3088032	251,2064767	0,152765766	FALSE	534,178229	0,014746935	534,178229	530,2086951	247,3065849	0,150394132	FALSE	32,2%	525,5266553	255,6669761	0,155478322	FALSE	32,0%
3513	2	1644,389857	Empty	783,7672754	536,3673569	251,2064767	0,152765766	FALSE	537,8565805	0,014746935	537,8565805	541,5675473	247,3065849	0,150394132	FALSE	32,9%	525,5266553	255,6669761	0,155478322	FALSE	32,0%
3513	3	1644,389857	Empty	839,9614883	581,7136969	251,2064767	0,152765766	FALSE	572,3550475	0,014746935	572,3550475	572,6136146	247,3065849	0,150394132	FALSE	34,8%	593,3365463	255,6669761	0,155478322	FALSE	36,1%
3514	1	1202,057103	Empty	679,9998497	459,8169274	142,3978526	0,118461804	FALSE	452,7832282	0,022747592	452,7832282	421,2971219	168,474345	0,140155026	FALSE	35,0%	367,9766641	221,7948029	0,184512701	FALSE	30,6%
3514	2	1202,057103	Empty	573,3651727	365,6255635	142,3978526	0,118461804	FALSE	371,0351773	0,022747592	371,0351773	355,2311036	168,474345	0,140155026	FALSE	29,6%	404,7743305	221,7948029	0,184512701	FALSE	33,7%
3514	3	1202,057103	Empty	588,1397493	376,6146118	142,3978526	0,118461804	FALSE	378,2386972	0,022747592	378,2386972	425,5288771	168,474345	0,140155026	FALSE	35,4%	429,3061081	221,7948029	0,184512701	FALSE	35,7%
3515	1	1451,463367	Empty	698,6164159	472,933302	205,1834879	0,141363187	FALSE	490,6607697	0,070769834	490,6607697	459,9437251	218,1730648	0,150312484	FALSE	31,7%	580,585347	282,1311519	0,194377039	FALSE	40,0%
3515	2	1451,463367	Empty	737,2267891	479,7104332	205,1834879	0,141363187	FALSE	465,6046589	0,070769834	465,6046589	485,3633953	218,1730648	0,150312484	FALSE	33,4%	370,9295272	282,1311519	0,194377039	FALSE	25,6%
3515	3	1451,463367	Empty	745,8519071	498,8196322	205,1834879	0,141363187	FALSE	495,1979388	0,070769834	495,1979388	506,1562471	218,1730648	0,150312484	FALSE	34,9%	499,9484932	282,1311519	0,194377039	FALSE	34,4%
3516	1	1065,200905	Empty	505,7135565	337,5135643	137,5332134	0,129114811	FALSE	336,6661192	0,061588878	336,6661192	335,7805347	154,7199698	0,145249567	FALSE	31,5%	311,7661186	199,4504686	0,187242113	FALSE	29,3%
3516	2	1065,200905	Empty	517,3492989	360,6931188	137,5332134	0,129114811	FALSE	371,3894857	0,061588878	371,3894857	343,5063624	154,7199698	0,145249567	FALSE	32,2%	298,7758636	199,4504686	0,187242113	FALSE	28,0%
3516	3	1065,200905	Empty	544,1956906	366,9942219	137,5332134	0,129114811	FALSE	357,1453001	0,061588878	357,1453001	385,914008	154,7199698	0,145249567	FALSE	36,2%	454,6589229	199,4504686	0,187242113	FALSE	42,7%
3517	1	641,8461806	Non-Empty	519,9545723	213,0134684	0	0	TRUE	210,9395577	0	214,418283	202,5238277	0	0	TRUE	31,6%	247,4587684	0	0	TRUE	38,6%
3517	2	641,8461806	Non-Empty	541,327815	241,5758357	0	0	TRUE	246,6910494	0	223,231569	210,8487683	0	0	TRUE	32,9%	193,3271628	0	0	TRUE	30,1%
3517	3	641,8461806	Non-Empty	495,1653725	187,2568764	0	0	TRUE	184,2155735	0	204,1957406	228,4735845	0	0	TRUE	35,6%	201,0602493	0	0	TRUE	31,3%
3518	1	1088,476469	Non-Empty	755,0467644	332,6423397	0	0	TRUE	355,2133086	0	339,1308648	343,2350194	0	0	TRUE	31,5%	339,2653931	0	0	TRUE	31,2%
3518	2	1088,476469	Non-Empty	815,9341991	353,4423099	0	0	TRUE	335,9258143	0	366,4785859	370,9137021	0	0	TRUE	34,1%	339,2653931	0	0	TRUE	31,2%
3518	3	1088,476469	Non-Empty	852,4216865	402,3918197	0	0	TRUE	397,3373465	0	382,8670187	374,327748	0	0	TRUE	34,4%	409,9456833	0	0	TRUE	37,7%
3519	1	1283,700505	Empty	566,9648383	389,418817	190,7673005	0,148607327	FALSE	398,4804627	0,071245292	398,4804627	368,9474032	233,7107682	0,182060198	FALSE	28,7%	364,8411961	215,3449214	0,167753242	FALSE	28,4%
3519	2	1283,700505	Empty	688,7387804	501,1634782	190,7673005	0,148607327	FALSE	500,1958429	0,071245292	500,1958429	448,1907296	233,7107682	0,182060198	FALSE	34,9%	472,9422912	215,3449214	0,167753242	FALSE	36,8%
3519	3	1283,700505	Empty	587,819887	393,1182096	190,7673005	0,148607327	FALSE	385,0241991	0,071245292	385,0241991	466,562372	233,7107682								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3535	1	960,0165266	Non-Empty	653,0346031	313,1808319	0	0	TRUE	299,7670111	0	323,2672881	318,602409	0	0	TRUE	33,2%	362,6729101	0	0	TRUE	37,8%
3535	2	960,0165266	Non-Empty	631,5797981	311,5908715	0	0	TRUE	318,0418953	0	312,6466615	308,1350425	0	0	TRUE	32,1%	320,0055089	0	0	TRUE	33,3%
3535	3	960,0165266	Non-Empty	654,7219764	335,2448231	0	0	TRUE	342,2076202	0	324,102577	333,2790751	0	0	TRUE	34,7%	277,3381077	0	0	TRUE	28,9%
3536	1	1638,258143	Empty	722,2014171	500,0355669	231,5780574	0,141356268	FALSE	540,3536916	0,107615543	472,2084676	259,4051566	0,158342052	FALSE	28,8%	441,7774769	289,8361474	0,176917263	FALSE	27,0%	
3536	2	1638,258143	Empty	874,245615	585,8964648	231,5780574	0,141356268	FALSE	560,0312896	0,107615543	560,0312896	571,6219498	0,158342052	FALSE	34,9%	515,4070564	289,8361474	0,176917263	FALSE	31,5%	
3536	3	1638,258143	Empty	829,263036	552,3261117	231,5780574	0,141356268	FALSE	537,8731622	0,107615543	594,4277726	259,4051566	0,158342052	FALSE	36,3%	681,0736102	289,8361474	0,176917263	FALSE	41,6%	
3537	1	1220,217214	Non-Empty	806,273647	353,5323773	0	0	TRUE	399,2541944	0	362,2870223	362,1833111	0	0	TRUE	29,7%	442,3287401	0	0	TRUE	36,3%
3537	2	1220,217214	Non-Empty	932,3326484	417,5810813	0	0	TRUE	401,2926009	0	418,929752	418,8098258	0	0	TRUE	34,3%	427,0760249	0	0	TRUE	35,0%
3537	3	1220,217214	Non-Empty	977,0001788	449,1037554	0	0	TRUE	419,6704188	0	439,0004397	439,2240771	0	0	TRUE	36,0%	350,812449	0	0	TRUE	28,8%
3538	1	495,9280628	Non-Empty	400,8319697	192,1617476	0	0	TRUE	183,264195	0	181,4969508	168,8262098	0	0	TRUE	34,0%	193,5329026	0	0	TRUE	39,0%
3538	2	495,9280628	Non-Empty	356,9502751	160,5692582	0	0	TRUE	163,9609106	0	161,6272937	150,3437016	0	0	TRUE	30,3%	145,1496769	0	0	TRUE	29,3%
3538	3	495,9280628	Non-Empty	337,4638263	143,197057	0	0	TRUE	148,7029572	0	152,8038183	176,7581514	0	0	TRUE	35,6%	157,2454833	0	0	TRUE	31,7%
3539	1	1145,106827	Empty	608,7254275	372,8324308	125,6923068	0,1097647	FALSE	365,9935243	0,038487905	365,9935243	376,044151	131,1135886	0,114499002	FALSE	32,8%	354,4378275	223,0298849	0,194767754	FALSE	31,0%
3539	2	1145,106827	Empty	612,2039046	385,5842734	125,6923068	0,1097647	FALSE	388,0187324	0,038487905	388,0187324	378,1930032	131,1135886	0,114499002	FALSE	33,0%	286,2767068	223,0298849	0,194767754	FALSE	25,0%
3539	3	1145,106827	Empty	611,3397658	386,6901231	125,6923068	0,1097647	FALSE	391,0945705	0,038487905	391,0945705	390,8696731	131,1135886	0,114499002	FALSE	34,1%	504,392293	223,0298849	0,194767754	FALSE	44,0%
3540	1	1308,900491	Empty	671,9644803	461,4382096	202,1520672	0,154444183	FALSE	447,7258999	0,065767147	447,7258999	464,405183	199,8387455	0,152676805	FALSE	35,5%	477,203304	213,6779922	0,16324999	FALSE	36,5%
3540	2	1308,900491	Empty	549,3737704	377,3675004	202,1520672	0,154444183	FALSE	402,1751915	0,065767147	402,1751915	379,6808222	199,8387455	0,152676805	FALSE	29,0%	409,0314034	213,6779922	0,16324999	FALSE	31,3%
3540	3	1308,900491	Empty	678,0041233	470,0947809	202,1520672	0,154444183	FALSE	458,9993996	0,065767147	458,9993996	464,8144858	199,8387455	0,152676805	FALSE	35,5%	422,6657835	213,6779922	0,16324999	FALSE	32,3%
3541	1	1307,379823	Empty	647,9345727	466,6078079	221,6132176	0,169509437	FALSE	465,2337984	0,016430689	465,2337984	444,5884276	241,0715562	0,184392899	FALSE	34,0%	510,9300457	344,510533	0,2635122	FALSE	39,1%
3541	2	1307,379823	Empty	595,0932821	416,327559	221,6132176	0,169509437	FALSE	417,5145912	0,016430689	417,5145912	408,3307138	241,0715562	0,184392899	FALSE	31,2%	495,9026914	344,510533	0,2635122	FALSE	37,9%
3541	3	1307,379823	Empty	604,2102336	424,4444558	221,6132176	0,169509437	FALSE	424,6314332	0,016430689	424,6314332	454,4606813	241,0715562	0,184392899	FALSE	34,8%	300,5470857	344,510533	0,2635122	FALSE	23,0%
3542	1	918,4898203	Non-Empty	635,3208115	314,2692467	0	0	TRUE	324,0535067	0	305,3566322	294,437626	0	0	TRUE	32,1%	274,6000494	0	0	TRUE	29,9%
3542	2	918,4898203	Non-Empty	620,4739787	290,6829783	0	0	TRUE	291,7278025	0	298,2207431	287,5569035	0	0	TRUE	31,3%	359,8207543	0	0	TRUE	39,2%
3542	3	918,4898203	Non-Empty	655,2025043	313,5375953	0	0	TRUE	302,7085111	0	314,912445	336,4952908	0	0	TRUE	36,6%	284,0690166	0	0	TRUE	30,9%
3543	1	1226,545517	Empty	575,3181054	391,209946	160,0870272	0,130518619	FALSE	392,1036344	0,029898211	392,1036344	381,1884382	164,5667042	0,13417089	FALSE	31,1%	487,9804743	229,6281843	0,187215379	FALSE	39,8%
3543	2	1226,545517	Empty	618,5421378	426,2110822	160,0870272	0,130518619	FALSE	418,8818745	0,029898211	418,8818745	409,8273794	164,5667042	0,13417089	FALSE	33,4%	342,9051982	229,6281843	0,187215379	FALSE	28,0%
3543	3	1226,545517	Empty	587,690817	409,1244884	160,0870272	0,130518619	FALSE	415,5600076	0,029898211	415,5600076	435,5296989	164,5667042	0,13417089	FALSE	35,5%	395,659844	229,6281843	0,187215379	FALSE	32,3%
3544	1	1167,168559	Non-Empty	874,895018	375,8554642	0	0	TRUE	352,8098825	0	393,4839106	388,3637807	0	0	TRUE	33,3%	393,1515147	0	0	TRUE	33,7%
3544	2	1167,168559	Non-Empty	828,8777827	382,0958641	0	0	TRUE	411,3079178	0	372,7876655	367,9368414	0	0	TRUE	31,5%	368,579545	0	0	TRUE	31,6%
3544	3	1167,168559	Non-Empty	891,3776751	409,217231	0	0	TRUE	403,050759	0	400,8969832	410,8679372	0	0	TRUE	35,2%	405,4374995	0	0	TRUE	34,7%
3545	1	719,6143197	Non-Empty	558,5328315	269,3771648	0	0	TRUE	261,7905706	0	256,9354329	248,6671412	0	0	TRUE	34,6%	179,9035799	0	0	TRUE	25,0%
3545	2	719,6143197	Non-Empty	484,8162122	211,7906826	0	0	TRUE	220,3342255	0	223,0236434	215,8474036	0	0	TRUE	30,0%	316,9729741	0	0	TRUE	44,0%
3545	3	719,6143197	Non-Empty	520,9724936	238,4464723	0	0	TRUE	237,4895236	0	239,6561433	255,099775	0	0	TRUE	35,4%	222,7377656	0	0	TRUE	31,0%
3546	1	1155,69095	Empty	538,6945109	392,4735551	137,1967739	0,118714068	FALSE	415,8800359	0,305507792	415,8800359	350,714211	183,9401875	0,15916036	FALSE	30,3%	411,1592803	132,8037833	0,114912887	FALSE	35,6%
3546	2	1155,69095	Empty	501,786794	373,4290508	137,1967739	0,118714068	FALSE	414,6987443	0,305507792	414,6987443	326,6856372	183,9401875	0,15916036	FALSE	28,3%	377,8220414	132,8037833	0,114912887	FALSE	32,7%
3546	3	1155,69095	Empty	624,0919553	389,7883443	137,1967739	0,118714068	FALSE	325,1121699	0,305507792	325,1121699	478,2911019	183,9401875	0,15916036	FALSE	41,4%	366,7096284	132,8037833	0,114912887	FALSE	31,7%
3547	1	1360,881625	Empty	693,4592045	494,6115078	210,3635198	0,154578852	FALSE	492,0720816	0,0903156	492,0720816	454,3051744	228,3267214	0,167778532	FALSE	33,4%	521,1887076	225,4006517	0,165628404	FALSE	38,3%
3547	2	1360,881625	Empty	656,5691971	442,9966474	210,3635198	0,154578852	FALSE	425,7323681	0,0903156	425,7323681	430,137464	228,3267214	0,167778532	FALSE	31,6%	390,8915307	225,4006517	0,165628404	FALSE	28,7%
3547	3	1360,881625	Empty	599,778035	423,2734702	210,3635198	0,154578852	FALSE	443,0771758	0,0903156	443,0771758	476,4389871	228,3267214	0,167778532	FALSE	35,0%	448,8013871	225,4006517	0,165628404	FALSE	33,0%
3548	1	897,0119947	Empty	529,8756825	362,3319348	84,61490252	0,094329734	FALSE	356,8626899	0,050004089	356,8626899	309,6738134	127,8492832	0,142527953	FALSE	34,5%	282,7537809	154,7693156	0,172538736	FALSE	31,5%
3548	2	897,0119947	Empty	443,9117333	283,3519794	84,61490252	0,094329734	FALSE	284,8667283	0,050004089	284,8667283	259,4341348	127,8492832	0,142527953	FALSE	28,9%	370,5049543	154,7693156	0,172538736	FALSE	41,3%
3548	3	897,0119947	Empty	409,4480875	251,3280805	84,61490252	0,094329734	FALSE	255,2825764	0,050004089	255,2825764	327,9040465	127,8492832	0,142527953	FALSE	36,6%	243,7532594	154,7693156	0,172538736	FALSE	27,2%
3549	1	1168,175445	Empty	651,4877242	414,9059864	101,8018955	0,087146067	FALSE	415,2555865	0,029160085	415,2555865	389,3015155	125,6857629	0,107591512	FALSE	33,3%	367,5158702	147,4714082	0,126240805	FALSE	31,5%
3549	2	1168,175445	Empty	610,3479134	375,486779	101,8018955	0,087146067	FALSE	377,5569825	0,029160085	377,5569825	364,7181042	125,6857629	0,107591512	FALSE	31,2%	367,5158702	147,4714082	0,126240805	FALSE	31,5%
3549	3	1168,175445	Empty	617,1338209	377,7826792	101,8018955	0,087146067	FALSE	375,3628756	0,029160085	375,3628756	414,1558249	125,6857629	0,107591512	FALSE	35,5%	433,1437042	147,4714082	0,126240805	FALSE	37,1%
3550	1	1059,871659	Non-Empty	660,1126624	338,4204081	0	0	TRUE	352,9324938	0	338,2353806	315,887287	0	0	TRUE	29,8%	384,4632489	0	0	TRUE	36,3%
3550	2	1059,871659	Non-Empty	691,6331411	362,7935246	0	0	TRUE	370,158248	0	354,3861708	330,9709523	0	0	TRUE	31,2%	363,6814516	0	0	TRUE	34,3%
3550	3	1059,871659	Non-Empty	716,7388752	358,6577263	0	0	TRUE	336,7809172	0	367,2501076	413,0134198	0	0	TRUE	39,0%	311,7269585	0			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3566	1	1300,360052	Empty	675,8237643	448,1408857	117,7636212	0,090562318	FALSE	463,0032746	0,244491202	463,0032746	422,1330642	127,751985	0,098243548	FALSE	32,5%	462,6280955	128,4616865	0,098789321	FALSE	35,6%
3566	2	1300,360052	Empty	684,2442254	391,3964676	117,7636212	0,090562318	FALSE	341,0939772	0,244491202	341,0939772	427,392653	127,751985	0,098243548	FALSE	32,9%	387,6073232	128,4616865	0,098789321	FALSE	29,8%
3566	3	1300,360052	Empty	667,9278646	460,8226988	117,7636212	0,090562318	FALSE	496,2628003	0,244491202	496,2628003	450,8343349	127,751985	0,098243548	FALSE	34,7%	450,1246334	128,4616865	0,098789321	FALSE	34,6%
3567	1	1085,220612	Non-Empty	827,8313738	378,6586302	0	0	TRUE	358,1035241	0	378,8915277	362,1166698	0	0	TRUE	33,4%	317,0307405	0	0	TRUE	29,2%
3567	2	1085,220612	Non-Empty	751,6793456	357,6321483	0	0	TRUE	392,2025884	0	344,0373784	328,805636	0	0	TRUE	30,3%	317,0307405	0	0	TRUE	29,2%
3567	3	1085,220612	Non-Empty	791,5628048	348,9298333	0	0	TRUE	334,9144994	0	362,2917056	394,298306	0	0	TRUE	36,3%	451,1591308	0	0	TRUE	41,6%
3568	1	1530,695636	Empty	745,6230808	510,5768503	210,5781513	0,13757023	FALSE	517,8329469	0,033488589	517,8329469	502,9492461	218,2057555	0,142553327	FALSE	32,9%	516,3792508	339,6353428	0,221883002	FALSE	33,7%
3568	2	1530,695636	Empty	719,8598508	483,4112434	210,5781513	0,13757023	FALSE	489,2649632	0,033488589	489,2649632	485,5710326	218,2057555	0,142553327	FALSE	31,7%	627,0319474	339,6353428	0,221883002	FALSE	41,0%
3568	3	1530,695636	Empty	792,1196862	536,7075427	210,5781513	0,13757023	FALSE	523,5977263	0,033488589	523,5977263	542,1753577	218,2057555	0,142553327	FALSE	35,4%	387,2844381	339,6353428	0,221883002	FALSE	25,3%
3569	1	764,8590434	Non-Empty	514,1951516	238,8831573	0	0	TRUE	235,3525071	0	248,8837149	236,3788037	0	0	TRUE	30,9%	226,2259142	0	0	TRUE	29,6%
3569	2	764,8590434	Non-Empty	553,6026203	269,2051722	0	0	TRUE	256,5890681	0	267,9579461	254,4946694	0	0	TRUE	33,3%	290,8618897	0	0	TRUE	38,0%
3569	3	764,8590434	Non-Empty	512,4053038	256,7707139	0	0	TRUE	272,9174682	0	248,0173824	273,9855702	0	0	TRUE	35,8%	247,7712394	0	0	TRUE	32,4%
3570	1	765,0703513	Non-Empty	577,070834	243,4009475	0	0	TRUE	246,2120866	0	248,8004761	243,9955747	0	0	TRUE	31,9%	242,1108707	0	0	TRUE	31,6%
3570	2	765,0703513	Non-Empty	607,1504143	261,6430674	0	0	TRUE	252,6167461	0	261,7690987	256,7137438	0	0	TRUE	33,6%	300,2174796	0	0	TRUE	39,2%
3570	3	765,0703513	Non-Empty	590,2921799	260,0263365	0	0	TRUE	266,2415187	0	254,5007765	264,3610328	0	0	TRUE	34,6%	222,742001	0	0	TRUE	29,1%
3571	1	650,3080104	Non-Empty	541,8572708	233,6412343	0	0	TRUE	221,9846215	0	228,8164043	212,4695567	0	0	TRUE	32,7%	192,4380847	0	0	TRUE	29,6%
3571	2	650,3080104	Non-Empty	527,2856648	234,0850469	0	0	TRUE	237,4438528	0	222,6630819	206,7558332	0	0	TRUE	31,8%	199,0738807	0	0	TRUE	30,6%
3571	3	650,3080104	Non-Empty	470,8433462	182,5817293	0	0	TRUE	190,8795361	0	198,8285242	231,0826205	0	0	TRUE	35,5%	258,796045	0	0	TRUE	39,8%
3572	1	1085,630811	Empty	538,767616	353,78207	143,3621846	0,13205427	FALSE	332,2007736	0,110503203	332,2007736	364,7214298	154,8472582	0,142633441	FALSE	33,6%	310,1802318	151,8262352	0,139850706	FALSE	28,6%
3572	2	1085,630811	Empty	499,4128696	349,5651112	143,3621846	0,13205427	FALSE	363,1216023	0,110503203	363,1216023	338,0800376	154,8472582	0,142633441	FALSE	31,1%	398,8031552	151,8262352	0,139850706	FALSE	36,7%
3572	3	1085,630811	Empty	537,6630745	382,2836302	143,3621846	0,13205427	FALSE	390,3084354	0,110503203	390,3084354	382,8293441	154,8472582	0,142633441	FALSE	35,3%	376,6474244	151,8262352	0,139850706	FALSE	34,7%
3573	1	889,7762523	Empty	473,5722351	307,769318	118,5921088	0,133283068	FALSE	305,5202347	0,003546756	305,5202347	300,9318581	120,824132	0,13579159	FALSE	33,8%	265,9101444	155,6854722	0,174971485	FALSE	29,9%
3573	2	889,7762523	Empty	447,8658367	286,8287298	118,5921088	0,133283068	FALSE	289,3454567	0,003546756	289,3454567	284,5967065	120,824132	0,13579159	FALSE	32,0%	255,6828311	155,6854722	0,174971485	FALSE	28,7%
3573	3	889,7762523	Empty	458,9996821	295,1782045	118,5921088	0,133283068	FALSE	294,9105609	0,003546756	294,9105609	304,2476877	120,824132	0,13579159	FALSE	34,2%	368,1832768	155,6854722	0,174971485	FALSE	41,4%
3574	1	1169,715753	Empty	549,9224224	371,7479953	134,3151741	0,114827191	FALSE	388,7461102	0,17491372	388,7461102	333,251741	196,6963575	0,168157398	FALSE	28,5%	435,776457	195,2567532	0,166926668	FALSE	37,3%
3574	2	1169,715753	Empty	641,034819	456,853611	134,3151741	0,114827191	FALSE	467,8449451	0,17491372	467,8449451	388,4656467	196,6963575	0,168157398	FALSE	33,2%	389,905251	195,2567532	0,166926668	FALSE	33,3%
3574	3	1169,715753	Empty	564,276138	341,1141469	134,3151741	0,114827191	FALSE	313,1246978	0,17491372	313,1246978	447,9983654	196,6963575	0,168157398	FALSE	38,3%	344,034045	195,2567532	0,166926668	FALSE	29,4%
3575	1	666,0584412	Non-Empty	495,1191908	206,2579709	0	0	TRUE	211,9656659	0	212,7924407	198,5630831	0	0	TRUE	29,8%	225,0197436	0	0	TRUE	33,8%
3575	2	666,0584412	Non-Empty	569,3934545	263,7719903	0	0	TRUE	252,719441	0	244,714051	228,3501063	0	0	TRUE	34,3%	261,0229026	0	0	TRUE	39,2%
3575	3	666,0584412	Non-Empty	485,2525408	196,0284801	0	0	TRUE	201,3733343	0	208,5519495	239,1452518	0	0	TRUE	35,9%	180,0157949	0	0	TRUE	27,0%
3576	1	821,7648235	Non-Empty	721,9402746	343,6519442	0	0	TRUE	355,667498	0	297,722751	281,8607156	0	0	TRUE	34,3%	286,2326913	0	0	TRUE	34,8%
3576	2	821,7648235	Non-Empty	621,1025475	226,2813284	0	0	TRUE	221,7639935	0	256,1380291	242,4915394	0	0	TRUE	29,5%	230,8328156	0	0	TRUE	28,1%
3576	3	821,7648235	Non-Empty	649,6336541	251,8315509	0	0	TRUE	244,333332	0	267,9040434	297,4125685	0	0	TRUE	36,2%	304,6993166	0	0	TRUE	37,1%
3577	1	971,6210696	Non-Empty	798,4386018	342,4768936	0	0	TRUE	339,5648709	0	332,842677	318,4255756	0	0	TRUE	32,8%	383,8502991	0	0	TRUE	39,5%
3577	2	971,6210696	Non-Empty	778,0815883	328,70897	0	0	TRUE	332,3860374	0	324,3565105	310,306988	0	0	TRUE	31,9%	347,8643336	0	0	TRUE	35,8%
3577	3	971,6210696	Non-Empty	754,2499363	300,435206	0	0	TRUE	299,6701613	0	314,4218821	342,888506	0	0	TRUE	35,3%	239,9064369	0	0	TRUE	24,7%
3578	1	931,2889427	Non-Empty	600,3425389	274,5368918	0	0	TRUE	297,3942259	0	282,7586209	271,6850362	0	0	TRUE	29,2%	296,319209	0	0	TRUE	31,8%
3578	2	931,2889427	Non-Empty	699,7349928	351,7777902	0	0	TRUE	352,4835687	0	329,5720172	316,6650946	0	0	TRUE	34,0%	317,4848668	0	0	TRUE	34,1%
3578	3	931,2889427	Non-Empty	677,2003545	304,9742607	0	0	TRUE	281,411148	0	318,9583045	342,9388119	0	0	TRUE	36,8%	317,4848668	0	0	TRUE	34,1%
3579	1	753,7798667	Non-Empty	540,5232249	251,3298825	0	0	TRUE	258,0001374	0	248,2288338	223,8550505	0	0	TRUE	29,7%	270,2229711	0	0	TRUE	35,8%
3579	2	753,7798667	Non-Empty	571,5481358	297,6463062	0	0	TRUE	319,6080738	0	262,4766535	236,7038656	0	0	TRUE	31,4%	270,2229711	0	0	TRUE	35,8%
3579	3	753,7798667	Non-Empty	529,2992977	204,803678	0	0	TRUE	176,1716556	0	243,0743793	293,2209507	0	0	TRUE	38,9%	213,3339246	0	0	TRUE	28,3%
3580	1	1514,465899	Empty	739,7932548	487,1952071	188,7349095	0,124621432	FALSE	481,2660179	0,039950807	481,2660179	473,8510236	223,8309032	0,147795274	FALSE	31,3%	523,5190762	226,6325763	0,149645216	FALSE	34,6%
3580	2	1514,465899	Empty	785,5426715	540,6423883	188,7349095	0,124621432	FALSE	542,4109638	0,039950807	542,4109638	503,1543564	223,8309032	0,147795274	FALSE	33,2%	542,216186	226,6325763	0,149645216	FALSE	35,8%
3580	3	1514,465899	Empty	729,1365485	486,6283036	188,7349095	0,124621432	FALSE	490,7889172	0,039950807	490,7889172	537,460519	223,8309032	0,147795274	FALSE	35,5%	448,7306367	226,6325763	0,149645216	FALSE	29,6%
3581	1	1680,404765	Empty	791,1785258	534,4764644	245,3666481	0,146016396	FALSE	532,8141505	0,034194505	532,8141505	542,6449071	251,6394199	0,14974929	FALSE	32,3%	579,4499189	353,772917	0,210528394	FALSE	34,5%
3581	2	1680,404765	Empty	796,6220249	552,6512067	245,3666481	0,146016396	FALSE	563,7201361	0,034194505	563,7201361	546,3784349	251,6394199	0,14974929	FALSE	32,5%	444,2449378	353,772917	0,210528394	FALSE	26,4%
3581	3	1680,404765	Empty	857,7234566	593,2770937	245,3666481	0,146016396	FALSE	583,8704782	0,034194505	583,8704782	591,3814228	251,6394199	0,14974929	FALSE	35,2%	656,7099081	353,772917	0,210528394	FALSE	39,1%
3582	1	1149,952291	Empty	579,6380218	380,0055518	162,7092692	0,141492191	FALSE	374,1081849	0,061326874	374,1081849	377,8565888	178,7165861	0,155412174	FALSE	32,9%	379,5959019	176,9441108	0,153870828	FALSE	33,0%
3582	2	1149,952291	Empty	5																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3597	1	1558,020664	Empty	684,5305371	494,757421	207,3881562	0,133110016	FALSE	519,0671892	0,252685611	519,0671892	428,2139835	324,8123376	0,208477554	FALSE	27,5%	582,2905511	299,1853584	0,192029134	FALSE	37,4%
3597	2	1558,020664	Empty	814,3934105	626,8750059	207,3881562	0,133110016	FALSE	653,4394855	0,252685611	653,4394855	509,4508245	324,8123376	0,208477554	FALSE	32,7%	535,0778037	299,1853584	0,192029134	FALSE	34,3%
3597	3	1558,020664	Empty	701,345369	436,3882368	207,3881562	0,133110016	FALSE	385,513989	0,252685611	385,513989	620,3558556	324,8123376	0,208477554	FALSE	39,8%	440,6523089	299,1853584	0,192029134	FALSE	28,3%
3598	1	951,3420999	Non-Empty	672,3057985	361,9040395	0	0	TRUE	349,7555079	0	346,455876	309,2597823	0	0	TRUE	32,5%	330,0574632	0	0	TRUE	34,7%
3598	2	951,3420999	Non-Empty	656,2997448	329,5171603	0	0	TRUE	300,9878032	0	338,207559	301,8970187	0	0	TRUE	31,7%	310,6423183	0	0	TRUE	32,7%
3598	3	951,3420999	Non-Empty	517,4962389	259,9209001	0	0	TRUE	300,5987888	0	266,6786649	340,185299	0	0	TRUE	35,8%	310,6423183	0	0	TRUE	32,7%
3599	1	937,1136523	Non-Empty	688,613013	303,2793626	0	0	TRUE	299,9357322	0	309,7852726	300,330998	0	0	TRUE	32,0%	319,0174136	0	0	TRUE	34,0%
3599	2	937,1136523	Non-Empty	704,8255018	325,7468279	0	0	TRUE	328,6581742	0	317,0787598	307,4018968	0	0	TRUE	32,8%	299,0788252	0	0	TRUE	31,9%
3599	3	937,1136523	Non-Empty	689,6451978	308,0874618	0	0	TRUE	308,5197459	0	310,2496199	329,3807576	0	0	TRUE	35,1%	319,0174136	0	0	TRUE	34,0%
3600	1	949,6543055	Empty	514,5098097	327,5573656	48,74734866	0,051331678	FALSE	324,4454577	0,078292622	324,4454577	339,1980497	84,00353934	0,088456967	FALSE	35,7%	332,3790069	67,07814845	0,07063428	FALSE	35,0%
3600	2	949,6543055	Empty	404,2580978	228,9481783	48,74734866	0,051331678	FALSE	237,4787951	0,078292622	237,4787951	266,5130106	84,00353934	0,088456967	FALSE	28,1%	256,4066625	67,07814845	0,07063428	FALSE	27,0%
3600	3	949,6543055	Empty	582,4080068	393,1487616	48,74734866	0,051331678	FALSE	387,7300527	0,078292622	387,7300527	343,9432452	84,00353934	0,088456967	FALSE	36,2%	360,8686361	67,07814845	0,07063428	FALSE	38,0%
3601	1	609,470374	Non-Empty	447,5795041	200,2562247	0	0	TRUE	188,0250532	0	207,482132	195,5981609	0	0	TRUE	32,1%	168,1297583	0	0	TRUE	27,6%
3601	2	609,470374	Non-Empty	466,2332728	222,603787	0	0	TRUE	214,066409	0	216,1293637	203,7501045	0	0	TRUE	33,4%	203,1567913	0	0	TRUE	33,3%
3601	3	609,470374	Non-Empty	400,9339204	186,6103623	0	0	TRUE	207,3789119	0	185,8588783	210,1221086	0	0	TRUE	34,5%	238,1838243	0	0	TRUE	39,1%
3602	1	883,266165	Non-Empty	655,8327175	348,9989868	0	0	TRUE	375,3975199	0	307,6400666	288,0563464	0	0	TRUE	32,6%	336,4823486	0	0	TRUE	38,1%
3602	2	883,266165	Non-Empty	618,3097851	263,9701146	0	0	TRUE	242,8627078	0	290,0386919	271,5754382	0	0	TRUE	30,7%	336,4823486	0	0	TRUE	38,1%
3602	3	883,266165	Non-Empty	608,8204537	270,2970636	0	0	TRUE	265,0059372	0	285,5874065	323,6343804	0	0	TRUE	36,6%	210,3014679	0	0	TRUE	23,8%
3603	1	1040,130939	Non-Empty	813,1790213	367,8151835	0	0	TRUE	347,3421154	0	365,3928944	357,5602996	0	0	TRUE	34,4%	346,7103129	0	0	TRUE	33,3%
3603	2	1040,130939	Non-Empty	721,3911406	320,2136624	0	0	TRUE	343,9269539	0	324,1490373	317,2005494	0	0	TRUE	30,5%	321,9452906	0	0	TRUE	31,0%
3603	3	1040,130939	Non-Empty	780,2330862	352,102093	0	0	TRUE	348,8618695	0	350,5890071	365,3700898	0	0	TRUE	35,1%	371,4753353	0	0	TRUE	35,7%
3604	1	1640,953781	Empty	734,0439048	519,8939113	203,0267981	0,123724873	FALSE	564,383165	0,214423604	564,383165	473,3991614	249,521548	0,152058852	FALSE	28,8%	619,5437746	207,415258	0,126399208	FALSE	37,8%
3604	2	1640,953781	Empty	903,5655587	572,9517682	203,0267981	0,123724873	FALSE	500,9772248	0,214423604	500,9772248	582,7269663	249,521548	0,152058852	FALSE	35,5%	452,0995112	207,415258	0,126399208	FALSE	27,6%
3604	3	1640,953781	Empty	779,2620595	548,108102	203,0267981	0,123724873	FALSE	575,5933916	0,214423604	575,5933916	584,8276537	249,521548	0,152058852	FALSE	35,6%	569,3104956	207,415258	0,126399208	FALSE	34,7%
3605	1	623,6951583	Non-Empty	454,3881857	185,8831168	0	0	TRUE	201,1710397	0	192,1257413	193,8507543	0	0	TRUE	31,1%	242,1404732	0	0	TRUE	38,8%
3605	2	623,6951583	Non-Empty	485,6685151	201,8660854	0	0	TRUE	201,8566475	0	205,3517816	207,1955454	0	0	TRUE	33,2%	212,7901128	0	0	TRUE	34,1%
3605	3	623,6951583	Non-Empty	535,017433	235,9459561	0	0	TRUE	220,667471	0	226,2176354	222,6488586	0	0	TRUE	35,7%	168,7645722	0	0	TRUE	27,1%
3606	1	1088,290385	Empty	571,9952476	419,1558981	152,4173621	0,140052108	FALSE	421,2433	0,06348204	421,2433	380,6668864	190,9063739	0,175418598	FALSE	35,0%	321,5403409	250,0329194	0,229748349	FALSE	29,5%
3606	2	1088,290385	Empty	473,633409	318,72307	152,4173621	0,140052108	FALSE	318,7379563	0,06348204	318,7379563	315,2063865	190,9063739	0,175418598	FALSE	29,0%	358,6411494	250,0329194	0,229748349	FALSE	33,0%
3606	3	1088,290385	Empty	507,441982	350,4121794	152,4173621	0,140052108	FALSE	348,3091282	0,06348204	348,3091282	392,4171117	190,9063739	0,175418598	FALSE	36,1%	408,1088942	250,0329194	0,229748349	FALSE	37,5%
3607	1	764,2007902	Non-Empty	527,4193072	244,8710683	0	0	TRUE	258,1646576	0	244,0200035	221,9260475	0	0	TRUE	29,0%	220,9737225	0	0	TRUE	28,9%
3607	2	764,2007902	Non-Empty	616,7231602	309,9967734	0	0	TRUE	299,1122148	0	285,338033	259,5030775	0	0	TRUE	34,0%	248,5954378	0	0	TRUE	32,5%
3607	3	764,2007902	Non-Empty	507,5838075	209,3329485	0	0	TRUE	206,9239177	0	234,8427537	282,7716652	0	0	TRUE	37,0%	294,6316299	0	0	TRUE	38,6%
3608	1	1000,333239	Non-Empty	681,8165603	327,856703	0	0	TRUE	331,490061	0	328,9949973	327,0863998	0	0	TRUE	32,7%	351,1808178	0	0	TRUE	35,1%
3608	2	1000,333239	Non-Empty	659,8366778	315,1018219	0	0	TRUE	327,9601813	0	318,3891074	316,5420377	0	0	TRUE	31,6%	372,4645037	0	0	TRUE	37,2%
3608	3	1000,333239	Non-Empty	731,4596462	357,3747136	0	0	TRUE	340,8829962	0	352,9491338	356,704801	0	0	TRUE	35,7%	276,687917	0	0	TRUE	27,7%
3609	1	1035,340036	Non-Empty	808,6817597	371,2473148	0	0	TRUE	350,4777213	0	366,3623724	346,6509079	0	0	TRUE	33,5%	310,6020107	0	0	TRUE	30,0%
3609	2	1035,340036	Non-Empty	765,4028086	342,8823982	0	0	TRUE	337,0268391	0	346,7554269	328,0988787	0	0	TRUE	31,7%	349,427262	0	0	TRUE	33,8%
3609	3	1035,340036	Non-Empty	711,2500213	321,2103226	0	0	TRUE	347,8354752	0	322,2222364	360,590249	0	0	TRUE	34,8%	375,3107629	0	0	TRUE	36,3%
3610	1	748,1770789	Non-Empty	623,7430482	267,230322	0	0	TRUE	259,1792192	0	260,1918779	253,4022202	0	0	TRUE	33,9%	196,3964832	0	0	TRUE	26,3%
3610	2	748,1770789	Non-Empty	567,2507707	224,7619795	0	0	TRUE	230,7348119	0	236,6263539	230,4516341	0	0	TRUE	30,8%	317,9752585	0	0	TRUE	42,5%
3610	3	748,1770789	Non-Empty	602,5681304	256,1847774	0	0	TRUE	258,2630478	0	251,358847	264,3232245	0	0	TRUE	35,3%	233,8053371	0	0	TRUE	31,3%
3611	1	1361,711254	Empty	712,1054778	449,7804475	128,8638022	0,09463372	FALSE	428,8303849	0,088361019	428,8303849	458,0218782	132,9265662	0,097617293	FALSE	33,6%	571,5825017	209,5530828	0,153889514	FALSE	42,0%
3611	2	1361,711254	Empty	656,3149215	426,2004983	128,8638022	0,09463372	FALSE	437,4610429	0,088361019	437,4610429	422,1377343	132,9265662	0,097617293	FALSE	31,0%	386,6587512	209,5530828	0,153889514	FALSE	28,4%
3611	3	1361,711254	Empty	717,4157581	485,7303084	128,8638022	0,09463372	FALSE	495,4198264	0,088361019	495,4198264	481,5516416	132,9265662	0,097617293	FALSE	35,4%	403,4700012	209,5530828	0,153889514	FALSE	29,6%
3612	1	1645,438762	Empty	806,7242149	523,5404605	218,8427946	0,132999659	FALSE	512,6573912	0,05457419	512,6573912	510,7284712	243,0708007	0,147724003	FALSE	31,0%	470,1253607	295,6193951	0,179659919	FALSE	28,6%
3612	2	1645,438762	Empty	882,7150316	604,9257376	218,8427946	0,132999659	FALSE	599,4371287	0,05457419	599,4371287	558,8374444	243,0708007	0,147724003	FALSE	34,0%	506,28885	295,6193951	0,179659919	FALSE	30,8%
3612	3	1645,438762	Empty	772,9015713	516,9725643	218,8427946	0,132999659	FALSE	533,3442425	0,05457419	533,3442425	575,8728468	243,0708007	0,147724003	FALSE	35,0%	669,0245517	295,6193951	0,179659919	FALSE	40,7%
3613	1	663,6430946	Non-Empty	543,5579186	244,265977	0	0	TRUE	254,4022201	0	226,5985263	212,5341667	0	0	TRUE	32,0%	242,6222066	0	0	TRUE	36,6%
3613	2	663,6430946	Non-Empty	547,2986781	225,1339731	0	0	TRUE	212,3974526	0	228,1579749	213,9968245	0	0	TRUE	32,2%	206,9424703	0	0	TRUE	31,2%
3613	3	663,6430946	Non-Empty	501,0710517	194,2431445	0	0	TRUE	196,8434218												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3628	1	1505,879706	Empty	769,10536	518,6215209	187,9570891	0,124815474	FALSE	505,0927658	0,039448291	505,0927658	491,7911108	211,4461516	0,140413707	FALSE	32,7%	665,3887073	314,9827635	0,209168609	FALSE	44,2%
3628	2	1505,879706	Empty	745,2268589	510,0279279	187,9570891	0,124815474	FALSE	511,784081	0,039448291	511,784081	476,5224165	211,4461516	0,140413707	FALSE	31,6%	490,2864159	314,9827635	0,209168609	FALSE	32,6%
3628	3	1505,879706	Empty	702,4127393	477,2302572	187,9570891	0,124815474	FALSE	489,0028591	0,039448291	489,0028591	537,5661787	211,4461516	0,140413707	FALSE	35,7%	350,2045828	314,9827635	0,209168609	FALSE	23,3%
3629	1	880,7405217	Non-Empty	632,3336456	294,1709285	0	0	TRUE	299,7994129	0	291,2597409	285,7873779	0	0	TRUE	32,4%	280,6755509	0	0	TRUE	31,9%
3629	2	880,7405217	Non-Empty	632,0752186	291,6058087	0	0	TRUE	294,9276003	0	291,1407066	285,6705801	0	0	TRUE	32,4%	319,38942	0	0	TRUE	36,3%
3629	3	880,7405217	Non-Empty	647,7052622	294,9637846	0	0	TRUE	286,0135086	0	298,3400743	309,2825636	0	0	TRUE	35,1%	280,6755509	0	0	TRUE	31,9%
3630	1	954,8089878	Non-Empty	772,4466376	372,459282	0	0	TRUE	361,3035896	0	347,6818976	334,7964971	0	0	TRUE	35,1%	384,1185583	0	0	TRUE	40,2%
3630	2	954,8089878	Non-Empty	650,9234303	271,481561	0	0	TRUE	280,871355	0	292,9837252	282,1254877	0	0	TRUE	29,5%	318,2696626	0	0	TRUE	33,3%
3630	3	954,8089878	Non-Empty	697,9339096	310,8681448	0	0	TRUE	312,6340432	0	314,1433651	337,887003	0	0	TRUE	35,4%	252,4207669	0	0	TRUE	26,4%
3631	1	1459,431665	Empty	651,0645814	438,732999	181,4503518	0,124329461	FALSE	440,0640855	0,043660101	440,0640855	456,3182111	206,9353758	0,141791754	FALSE	31,3%	491,441275	320,9620565	0,219922634	FALSE	33,7%
3631	2	1459,431665	Empty	694,8384683	478,8061361	181,4503518	0,124329461	FALSE	476,4364727	0,043660101	476,4364727	486,9984575	206,9353758	0,141791754	FALSE	33,4%	565,9020743	320,9620565	0,219922634	FALSE	38,8%
3631	3	1459,431665	Empty	754,516622	541,8925301	181,4503518	0,124329461	FALSE	542,931107	0,043660101	542,931107	516,1149966	206,9353758	0,141791754	FALSE	35,4%	402,0883159	320,9620565	0,219922634	FALSE	27,6%
3632	1	939,673891	Non-Empty	681,9512545	325,4566419	0	0	TRUE	329,1053766	0	317,2172374	294,0682507	0	0	TRUE	31,3%	338,2826007	0	0	TRUE	36,0%
3632	2	939,673891	Non-Empty	720,875721	347,608071	0	0	TRUE	334,4837682	0	335,3233875	310,8531011	0	0	TRUE	33,1%	338,2826007	0	0	TRUE	36,0%
3632	3	939,673891	Non-Empty	617,276957	266,609178	0	0	TRUE	276,0847462	0	287,1332661	334,7525392	0	0	TRUE	35,6%	263,1086895	0	0	TRUE	28,0%
3633	1	1055,211581	Non-Empty	835,1199745	350,1318776	0	0	TRUE	329,9953675	0	359,7193144	354,1817738	0	0	TRUE	33,6%	284,0954256	0	0	TRUE	26,9%
3633	2	1055,211581	Non-Empty	799,8636391	338,7967843	0	0	TRUE	342,5815162	0	344,5330116	339,2292498	0	0	TRUE	32,1%	324,6804864	0	0	TRUE	30,8%
3633	3	1055,211581	Non-Empty	814,7827275	366,282919	0	0	TRUE	382,6346973	0	350,959255	361,8005573	0	0	TRUE	34,3%	446,4356689	0	0	TRUE	42,3%
3634	1	1395,720277	Empty	651,2280251	467,4305176	243,766854	0,174653086	FALSE	467,0261311	0,039118433	467,0261311	458,7956433	245,3819778	0,175810284	FALSE	32,9%	407,0850807	297,0925404	0,212859658	FALSE	29,2%
3634	2	1395,720277	Empty	647,919403	458,3153043	243,766854	0,174653086	FALSE	452,1043266	0,039118433	452,1043266	456,4646911	245,3819778	0,175810284	FALSE	32,7%	421,6238336	297,0925404	0,212859658	FALSE	30,2%
3634	3	1395,720277	Empty	646,7522118	469,9744548	243,766854	0,174653086	FALSE	476,5898188	0,039118433	480,4599422	480,4599422	245,3819778	0,175810284	FALSE	34,4%	567,0113624	297,0925404	0,212859658	FALSE	40,6%
3635	1	1007,871057	Empty	502,2328025	336,5650054	138,8527115	0,137768329	FALSE	323,3730558	0,079785991	323,3730558	325,3800843	151,8174881	0,150631856	FALSE	32,3%	303,5756195	154,7572232	0,153548633	FALSE	30,1%
3635	2	1007,871057	Empty	503,9047291	351,8259201	138,8527115	0,137768329	FALSE	352,2229584	0,079785991	352,2229584	326,4632706	151,8174881	0,150631856	FALSE	32,4%	400,7198177	154,7572232	0,153548633	FALSE	39,8%
3635	3	1007,871057	Empty	459,1610674	319,4801312	138,8527115	0,137768329	FALSE	332,2750424	0,079785991	332,2750424	356,0277018	151,8174881	0,150631856	FALSE	35,3%	303,5756195	154,7572232	0,153548633	FALSE	30,1%
3636	1	594,4483742	Non-Empty	458,5173993	211,4566519	0	0	TRUE	206,6102447	0	206,3179911	202,5131667	0	0	TRUE	34,1%	198,1494581	0	0	TRUE	33,3%
3636	2	594,4483742	Non-Empty	414,2403773	168,0988838	0	0	TRUE	164,1717304	0	186,3947641	182,957355	0	0	TRUE	30,8%	173,3807758	0	0	TRUE	29,2%
3636	3	594,4483742	Non-Empty	448,3336181	214,8928385	0	0	TRUE	223,6663991	0	201,7356191	208,9778525	0	0	TRUE	35,2%	222,9181403	0	0	TRUE	37,5%
3637	1	819,1775682	Non-Empty	635,7190046	292,2948831	0	0	TRUE	281,3931496	0	286,6482776	289,1462778	0	0	TRUE	35,3%	267,1231201	0	0	TRUE	32,6%
3637	2	819,1775682	Non-Empty	526,8706428	214,4910739	0	0	TRUE	234,6338929	0	237,5681098	239,6384002	0	0	TRUE	29,3%	267,1231201	0	0	TRUE	32,6%
3637	3	819,1775682	Non-Empty	654,1550846	312,3916112	0	0	TRUE	303,1505257	0	294,9611808	290,3928902	0	0	TRUE	35,4%	284,9313281	0	0	TRUE	34,8%
3638	1	1026,891824	Non-Empty	775,4298755	351,2077982	0	0	TRUE	339,9017163	0	351,460367	345,7145184	0	0	TRUE	33,7%	337,7933631	0	0	TRUE	32,9%
3638	2	1026,891824	Non-Empty	727,03236	333,9909453	0	0	TRUE	353,8655259	0	329,5243943	324,137166	0	0	TRUE	31,6%	418,8637702	0	0	TRUE	40,8%
3638	3	1026,891824	Non-Empty	763,1775744	341,6930803	0	0	TRUE	333,1245816	0	345,9070625	357,0401394	0	0	TRUE	34,8%	270,2346905	0	0	TRUE	26,3%
3639	1	1638,652704	Empty	782,6416083	507,0277181	191,4253503	0,116818744	FALSE	521,8434745	0,059970137	521,8434745	496,0422433	213,5981947	0,130349887	FALSE	30,3%	578,3480132	234,5249848	0,143120616	FALSE	35,3%
3639	2	1638,652704	Empty	869,4772808	583,5576853	191,4253503	0,116818744	FALSE	588,0677364	0,059970137	588,0677364	551,0791355	213,5981947	0,130349887	FALSE	33,6%	530,1523455	234,5249848	0,143120616	FALSE	32,4%
3639	3	1638,652704	Empty	857,822755	548,0673008	191,4253503	0,116818744	FALSE	528,7414933	0,059970137	528,7414933	591,5313253	213,5981947	0,130349887	FALSE	36,1%	530,1523455	234,5249848	0,143120616	FALSE	32,4%
3640	1	943,3004453	Non-Empty	656,8939058	327,0518982	0	0	TRUE	319,7300675	0	324,2770257	306,5437774	0	0	TRUE	32,5%	254,3731538	8,120491403	0,008608595	FALSE	27,0%
3640	2	943,3004453	Non-Empty	649,0316792	332,5108919	0	0	TRUE	338,5102814	0	320,3958214	302,8748186	0	0	TRUE	32,1%	328,5653236	8,120491403	0,008608595	FALSE	34,8%
3640	3	943,3004453	Non-Empty	604,9353909	283,7376552	0	0	TRUE	285,0600964	0	298,6275981	333,8818493	0	0	TRUE	35,4%	360,3619679	8,120491403	0,008608595	FALSE	38,2%
3641	1	1019,652221	Non-Empty	800,422227	335,1084938	0	0	TRUE	324,3636861	0	342,4378378	337,0740996	0	0	TRUE	33,1%	375,6613447	0	0	TRUE	36,8%
3641	2	1019,652221	Non-Empty	778,2637016	339,7936809	0	0	TRUE	355,8925857	0	332,9579442	327,7426933	0	0	TRUE	32,1%	321,9954383	0	0	TRUE	31,6%
3641	3	1019,652221	Non-Empty	804,6730692	344,7500466	0	0	TRUE	339,3959495	0	344,2564394	354,8354283	0	0	TRUE	34,8%	321,9954383	0	0	TRUE	31,6%
3642	1	1090,820283	Non-Empty	795,2929127	382,125248	0	0	TRUE	405,6578106	0	361,3286954	349,911444	0	0	TRUE	32,1%	315,7637661	0	0	TRUE	28,9%
3642	2	1090,820283	Non-Empty	805,4138542	352,0128274	0	0	TRUE	335,3120279	0	365,9269843	354,3644363	0	0	TRUE	32,5%	473,6456491	0	0	TRUE	43,4%
3642	3	1090,820283	Non-Empty	800,2141978	356,6822075	0	0	TRUE	349,8504444	0	363,5646031	386,5444025	0	0	TRUE	35,4%	301,4108676	0	0	TRUE	27,6%
3643	1	1250,751388	Empty	578,1644346	397,683129	195,6814725	0,156451134	FALSE	414,1147193	0,058679733	392,5598829	413,5610931	200,8047187	0,160547268	FALSE	31,4%	487,1347511	248,6012362	0,198761511	FALSE	38,9%
3643	2	1250,751388	Empty	617,2759021	416,0858054	195,6814725	0,156451134	FALSE	411,8086046	0,058679733	411,8086046	419,1156379	200,8047187	0,160547268	FALSE	33,5%	408,1399266	248,6012362	0,198761511	FALSE	32,6%
3643	3	1250,751388	Empty	646,0497388	436,9824536	195,6814725	0,156451134	FALSE	424,8280642	0,058679733	424,8280642	439,0758672	200,8047187	0,160547268	FALSE	35,1%	355,4767103	248,6012362	0,198761511	FALSE	28,4%
3644	1	856,7065222	Non-Empty	709,0238184	275,9181957	0	0	TRUE	281,8077803	0	279,444047	282,0220535	0	0	TRUE	32,9%	224,3755177	0	0	TRUE	26,2%
3644	2	856,7065222	Non-Empty	704,7339999	268,1110662	0	0	TRUE	270,4833398	0	277,753322	280,3157308	0	0	TRUE	32,7%	346,7621638	0	0	TRUE	40,5%
3644	3	8																			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3659	1	893,1519276	Non-Empty	629,6626846	273,3761711	0	0	TRUE	267,3774539	0	289,2901284	285,8676995	0	0	TRUE	32,0%	345,3520787	0	0	TRUE	38,7%
3659	2	893,1519276	Non-Empty	653,2963325	309,9180161	0	0	TRUE	316,827496	0	300,1482929	296,5974073	0	0	TRUE	33,2%	297,7173092	0	0	TRUE	33,3%
3659	3	893,1519276	Non-Empty	661,0562996	309,8577405	0	0	TRUE	308,9469777	0	303,7135064	310,6868208	0	0	TRUE	34,8%	250,0825397	0	0	TRUE	28,0%
3660	1	1394,340851	Empty	745,5001853	514,4520431	172,3997936	0,123642503	FALSE	490,229128	0,065269938	490,229128	462,2246564	227,3074749	0,163021455	FALSE	33,2%	396,2863473	251,3804015	0,180286191	FALSE	28,4%
3660	2	1394,340851	Empty	679,4390781	481,8745932	172,3997936	0,123642503	FALSE	491,1353355	0,065269938	491,1353355	421,2654813	227,3074749	0,163021455	FALSE	30,2%	557,7363406	251,3804015	0,180286191	FALSE	40,0%
3660	3	1394,340851	Empty	589,8772695	398,0142152	172,3997936	0,123642503	FALSE	412,976388	0,065269938	412,976388	510,8507138	227,3074749	0,163021455	FALSE	36,6%	440,3181636	251,3804015	0,180286191	FALSE	31,6%
3661	1	786,7943608	Non-Empty	506,9403702	248,3733744	0	0	TRUE	299,2399324	0	232,5572749	214,0172735	0	0	TRUE	27,2%	283,8948725	0	0	TRUE	36,1%
3661	2	786,7943608	Non-Empty	606,6074764	307,3788804	0	0	TRUE	317,5838382	0	278,2792414	256,0941796	0	0	TRUE	32,5%	308,2287187	0	0	TRUE	39,2%
3661	3	786,7943608	Non-Empty	601,5471756	231,042106	0	0	TRUE	169,9705902	0	275,9578445	316,6829077	0	0	TRUE	40,2%	194,6707697	0	0	TRUE	24,7%
3662	1	973,3905696	Non-Empty	749,2940853	266,3424638	0	0	TRUE	216,8487971	0	320,7701667	313,0466775	0	0	TRUE	32,2%	287,3819777	0	0	TRUE	29,5%
3662	2	973,3905696	Non-Empty	765,1131917	365,9701975	0	0	TRUE	400,2851582	0	327,5422706	319,655723	0	0	TRUE	32,8%	361,5450687	0	0	TRUE	37,1%
3662	3	973,3905696	Non-Empty	759,3571571	341,0779083	0	0	TRUE	356,2566143	0	325,0781324	340,688169	0	0	TRUE	35,0%	324,4635232	0	0	TRUE	33,3%
3663	1	1173,13629	Non-Empty	877,9988679	405,6713912	0	0	TRUE	419,8450797	0	391,2469681	371,7337182	0	0	TRUE	31,7%	471,6733536	0	0	TRUE	40,2%
3663	2	1173,13629	Non-Empty	915,3438001	401,0681169	0	0	TRUE	373,293599	0	407,8883239	387,5450945	0	0	TRUE	33,0%	338,6372795	0	0	TRUE	28,9%
3663	3	1173,13629	Non-Empty	839,2971174	366,3967816	0	0	TRUE	379,997611	0	374,0009977	413,8574769	0	0	TRUE	35,3%	362,8256566	0	0	TRUE	30,9%
3664	1	1050,121058	Empty	483,1159924	321,6811899	130,7149118	0,124476041	FALSE	315,1762418	0,174971396	315,1762418	309,4896662	189,3897508	0,180350398	FALSE	29,5%	306,2853085	155,0599139	0,147659084	FALSE	29,2%
3664	2	1050,121058	Empty	526,9777886	396,2628768	130,7149118	0,124476041	FALSE	420,4778193	0,174971396	420,4778193	337,5880378	189,3897508	0,180350398	FALSE	32,1%	371,9178747	155,0599139	0,147659084	FALSE	35,4%
3664	3	1050,121058	Empty	504,8168398	332,1769912	130,7149118	0,124476041	FALSE	314,4669968	0,174971396	314,4669968	403,0433539	189,3897508	0,180350398	FALSE	38,4%	371,9178747	155,0599139	0,147659084	FALSE	35,4%
3665	1	1201,413214	Empty	532,0282116	363,6927382	171,5507776	0,14279082	FALSE	368,0801759	0,058661696	368,0801759	357,6566391	170,7290704	0,142106869	FALSE	29,8%	410,2386584	201,0485985	0,167343422	FALSE	34,1%
3665	2	1201,413214	Empty	625,6672363	437,3116436	171,5507776	0,14279082	FALSE	421,678962	0,058661696	421,678962	420,6055921	170,7290704	0,142106869	FALSE	35,0%	380,9358971	201,0485985	0,167343422	FALSE	31,7%
3665	3	1201,413214	Empty	561,8864991	400,4088322	171,5507776	0,14279082	FALSE	411,6540762	0,058661696	411,6540762	423,1509828	170,7290704	0,142106869	FALSE	35,2%	410,2386584	201,0485985	0,167343422	FALSE	34,1%
3666	1	850,1148759	Non-Empty	602,4381712	286,5785729	0	0	TRUE	279,466485	0	288,3100265	275,1288582	0	0	TRUE	32,4%	295,3030622	0	0	TRUE	34,7%
3666	2	850,1148759	Non-Empty	591,7731643	291,1152275	0	0	TRUE	299,2048011	0	283,2060531	270,258232	0	0	TRUE	31,8%	268,4573292	0	0	TRUE	31,6%
3666	3	850,1148759	Non-Empty	582,1460717	272,4210756	0	0	TRUE	271,4435899	0	278,5987963	304,7277857	0	0	TRUE	35,8%	286,3544845	0	0	TRUE	33,7%
3667	1	1206,608662	Empty	579,5368112	360,8014732	132,4116593	0,109738694	FALSE	369,4577592	0,020759625	369,4577592	368,6149298	132,7346714	0,110006397	FALSE	30,5%	450,8208189	227,700243	0,18871093	FALSE	37,4%
3667	2	1206,608662	Empty	649,6209819	422,200344	132,4116593	0,109738694	FALSE	422,1713301	0,020759625	422,1713301	413,192032	132,7346714	0,110006397	FALSE	34,2%	318,2264604	227,700243	0,18871093	FALSE	26,4%
3667	3	1206,608662	Empty	659,625741	423,606845	132,4116593	0,109738694	FALSE	414,979573	0,020759625	414,979573	424,8017005	132,7346714	0,110006397	FALSE	35,2%	437,561383	227,700243	0,18871093	FALSE	36,3%
3668	1	1025,706732	Non-Empty	668,2924911	318,7553521	0	0	TRUE	324,7821698	0	327,6011112	325,3441104	0	0	TRUE	31,7%	414,8926109	4,686556257	0,0045691	FALSE	40,4%
3668	2	1025,706732	Non-Empty	705,6678955	347,4152734	0	0	TRUE	344,7266081	0	345,9227655	343,5395381	0	0	TRUE	33,5%	276,5950739	4,686556257	0,0045691	FALSE	27,0%
3668	3	1025,706732	Non-Empty	718,4382161	359,5361069	0	0	TRUE	356,1979545	0	352,1828557	356,823084	0	0	TRUE	34,8%	334,2190476	4,686556257	0,0045691	FALSE	32,6%
3669	1	1176,168715	Empty	515,0908505	337,6935823	142,8225459	0,121430322	FALSE	352,7699447	0,055901732	352,7699447	351,3042234	153,9166418	0,130862724	FALSE	29,9%	365,9191558	202,4983085	0,172167739	FALSE	31,1%
3669	2	1176,168715	Empty	601,6852558	395,9695575	142,8225459	0,121430322	FALSE	382,7274897	0,055901732	382,7274897	410,3636694	153,9166418	0,130862724	FALSE	34,9%	444,3304035	202,4983085	0,172167739	FALSE	37,8%
3669	3	1176,168715	Empty	636,8135006	442,5055754	142,8225459	0,121430322	FALSE	440,6712808	0,055901732	440,6712808	414,5008225	153,9166418	0,130862724	FALSE	35,2%	365,9191558	202,4983085	0,172167739	FALSE	31,1%
3670	1	935,3227373	Empty	496,4927106	349,2586896	70,1237752	0,074972811	FALSE	360,4639535	0,12015306	360,4639535	315,1017617	104,2807031	0,11149168	FALSE	33,7%	358,9029108	93,86556124	0,100356334	FALSE	38,4%
3670	2	935,3227373	Empty	407,6953054	258,6358048	70,1237752	0,074972811	FALSE	268,0155892	0,12015306	268,0155892	258,7460122	104,2807031	0,11149168	FALSE	27,7%	304,5236819	93,86556124	0,100356334	FALSE	32,6%
3670	3	935,3227373	Empty	506,4525761	327,4282428	70,1237752	0,074972811	FALSE	306,8431945	0,12015306	306,8431945	361,4749634	104,2807031	0,11149168	FALSE	38,6%	271,8961446	93,86556124	0,100356334	FALSE	29,1%
3671	1	1109,162853	Non-Empty	712,3564243	351,3524082	0	0	TRUE	380,3732757	0	346,6594783	346,4642655	0	0	TRUE	31,2%	407,1610472	0	0	TRUE	36,7%
3671	2	1109,162853	Non-Empty	738,310814	339,1567144	0	0	TRUE	330,0274983	0	359,2898623	359,087537	0	0	TRUE	32,4%	393,1210111	0	0	TRUE	35,4%
3671	3	1109,162853	Non-Empty	828,5702649	418,6537301	0	0	TRUE	398,7620788	0	403,2135122	403,6110503	0	0	TRUE	36,4%	308,8807944	0	0	TRUE	27,8%
3672	1	943,5396739	Non-Empty	742,4984733	343,7050258	0	0	TRUE	337,3945535	0	330,3067106	305,9926261	0	0	TRUE	32,4%	317,7225432	0	0	TRUE	33,7%
3672	2	943,5396739	Non-Empty	694,5146117	324,0393955	0	0	TRUE	346,0471544	0	308,9606849	286,2178948	0	0	TRUE	30,3%	298,4666315	0	0	TRUE	31,6%
3672	3	943,5396739	Non-Empty	683,9755141	275,7952525	0	0	TRUE	260,097966	0	304,2722784	351,329153	0	0	TRUE	37,2%	327,3504991	0	0	TRUE	34,7%
3673	1	996,1041279	Non-Empty	697,3567657	309,2294053	0	0	TRUE	310,8025282	0	320,8193993	303,7029254	0	0	TRUE	30,5%	354,9336548	6,954061294	0,006981259	FALSE	35,6%
3673	2	996,1041279	Non-Empty	792,5089461	390,6188986	0	0	TRUE	378,4293346	0	364,5942171	345,1422531	0	0	TRUE	34,6%	263,3378729	6,954061294	0,006981259	FALSE	26,4%
3673	3	996,1041279	Non-Empty	675,3398662	296,255824	0	0	TRUE	306,8722651	0	310,6905115	347,2589494	0	0	TRUE	34,9%	377,8326002	6,954061294	0,006981259	FALSE	37,9%
3674	1	907,739991	Non-Empty	751,6335096	328,3582892	0	0	TRUE	288,9206647	0	331,3278498	299,9829382	0	0	TRUE	33,0%	295,5432529	0	0	TRUE	32,6%
3674	2	907,739991	Non-Empty	732,3338857	336,5004557	0	0	TRUE	324,5046216	0	322,8203753	292,2803041	0	0	TRUE	32,2%	263,8779044	0	0	TRUE	29,1%
3674	3	907,739991	Non-Empty	575,2853833	242,8812461	0	0	TRUE	294,3147047	0	253,5917659	315,4767486	0	0	TRUE	34,8%	348,3188338	0	0	TRUE	38,4%
3675	1	1089,118862	Empty	544,0282524	408,5681761	187,8260833	0,172456919	FALSE	403,4015939	0,052566058	403,4015939	388,7336196	193,433267	0,177605286	FALSE	35,7%	390,6622005	186,269465	0,171027673	FALSE	35,9%
3675	2	1089,118862	Empty	426,0055402	310,0080579	187,8260833	0,172456919	FALSE	324,3040696	0											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3690	1	829,1348116	Non-Empty	535,3848349	260,4677693	0	0	TRUE	250,9354556	0	273,1244632	263,6892642	0	0	TRUE	31,8%	269,9508689	0	0	TRUE	32,6%
3690	2	829,1348116	Non-Empty	559,50471	291,6611796	0	0	TRUE	289,2024011	0	285,4291225	275,5688538	0	0	TRUE	33,2%	308,5152787	0	0	TRUE	37,2%
3690	3	829,1348116	Non-Empty	530,3995226	277,0058628	0	0	TRUE	288,9969549	0	270,5812259	289,8766936	0	0	TRUE	35,0%	250,668664	0	0	TRUE	30,2%
3691	1	853,9229387	Non-Empty	585,9017704	276,9461603	0	0	TRUE	282,8985982	0	278,168286	277,065284	0	0	TRUE	32,4%	277,2477074	0	0	TRUE	32,5%
3691	2	853,9229387	Non-Empty	597,3311421	275,0027855	0	0	TRUE	267,5824769	0	283,5880197	282,4700843	0	0	TRUE	33,1%	277,2477074	0	0	TRUE	32,5%
3691	3	853,9229387	Non-Empty	615,4141703	301,973993	0	0	TRUE	303,4418637	0	292,1730905	294,3875704	0	0	TRUE	34,5%	299,427524	0	0	TRUE	35,1%
3692	1	1236,396932	Empty	686,9210172	439,757218	115,8789793	0,093723121	FALSE	444,5637451	0,060363422	444,5637451	414,505479	141,1307184	0,114146772	FALSE	33,5%	473,1889495	156,1982214	0,126333394	FALSE	38,3%
3692	2	1236,396932	Empty	648,1846687	388,2909644	115,8789793	0,093723121	FALSE	380,3675864	0,060363422	380,3675864	391,1309886	141,1307184	0,114146772	FALSE	31,6%	396,8681512	156,1982214	0,126333394	FALSE	32,1%
3692	3	1236,396932	Empty	657,2022252	408,34875	115,8789793	0,093723121	FALSE	411,465601	0,060363422	411,465601	430,7604648	141,1307184	0,114146772	FALSE	34,8%	366,3398318	156,1982214	0,126333394	FALSE	29,6%
3693	1	1252,374673	Empty	607,5710105	427,3249955	218,2419002	0,174262467	FALSE	419,0145227	0,052831637	419,0145227	421,8627261	231,9612468	0,185217133	FALSE	33,7%	316,5342579	307,3114631	0,245383007	FALSE	25,3%
3693	2	1252,374673	Empty	563,5213048	404,9964643	218,2419002	0,174262467	FALSE	418,4071662	0,052831637	418,4071662	391,2771178	231,9612468	0,185217133	FALSE	31,2%	495,4449255	307,3114631	0,245383007	FALSE	39,6%
3693	3	1252,374673	Empty	597,0889842	420,0532129	218,2419002	0,174262467	FALSE	414,9529839	0,052831637	414,9529839	439,2348289	231,9612468	0,185217133	FALSE	35,1%	440,3954893	307,3114631	0,245383007	FALSE	35,2%
3694	1	1057,008986	Non-Empty	746,4436638	327,7367713	0	0	TRUE	351,0870623	0	331,0691944	332,0258496	0	0	TRUE	31,4%	352,3363288	0	0	TRUE	33,3%
3694	2	1057,008986	Non-Empty	776,904157	332,5413247	0	0	TRUE	330,2356759	0	344,5792977	345,5749915	0	0	TRUE	32,7%	374,3573494	0	0	TRUE	35,4%
3694	3	1057,008986	Non-Empty	859,8327161	396,7308905	0	0	TRUE	375,6862483	0	381,3604944	379,4081454	0	0	TRUE	35,9%	330,3153083	0	0	TRUE	31,3%
3695	1	1531,960931	Empty	811,0173109	543,5637895	167,360645	0,109246027	FALSE	545,990603	0,041037906	545,990603	516,8826127	194,0418218	0,126662383	FALSE	33,7%	420,8683877	290,0560468	0,189336452	FALSE	27,5%
3695	2	1531,960931	Empty	742,3554819	470,8883642	167,360645	0,109246027	FALSE	469,3015815	0,041037906	469,3015815	473,1226274	194,0418218	0,126662383	FALSE	30,9%	538,7115362	290,0560468	0,189336452	FALSE	35,2%
3695	3	1531,960931	Empty	788,2291433	517,5087775	167,360645	0,109246027	FALSE	516,6687467	0,041037906	516,6687467	541,9556911	194,0418218	0,126662383	FALSE	35,4%	572,3810072	290,0560468	0,189336452	FALSE	37,4%
3696	1	933,4190612	Non-Empty	609,575825	321,1480705	0	0	TRUE	324,5405392	0	314,5536592	302,1458595	0	0	TRUE	32,4%	256,433808	26,8215279	0,028734712	FALSE	27,5%
3696	2	933,4190612	Non-Empty	606,5086824	307,970259	0	0	TRUE	301,2520588	0	312,9709263	300,6255819	0	0	TRUE	32,2%	400,0367405	26,8215279	0,028734712	FALSE	42,9%
3696	3	933,4190612	Non-Empty	592,7952233	304,3007316	0	0	TRUE	307,6264631	0	305,8945	330,6476198	0	0	TRUE	35,4%	276,9485127	26,8215279	0,028734712	FALSE	29,7%
3697	1	1474,207647	Empty	729,0810199	551,0279165	108,8529811	0,073838296	FALSE	624,8398234	0,313987198	624,8398234	428,2391226	231,641775	0,157129679	FALSE	29,0%	509,7727376	150,1081599	0,101822942	FALSE	34,6%
3697	2	1474,207647	Empty	771,8366375	469,5536059	108,8529811	0,073838296	FALSE	419,1355847	0,313987198	419,1355847	453,3524196	231,641775	0,157129679	FALSE	30,8%	482,2174545	150,1081599	0,101822942	FALSE	32,7%
3697	3	1474,207647	Empty	728,8850202	453,6261242	108,8529811	0,073838296	FALSE	430,2322386	0,313987198	430,2322386	592,6161046	231,641775	0,157129679	FALSE	40,2%	482,2174545	150,1081599	0,101822942	FALSE	32,7%
3698	1	1351,255566	Empty	745,0564629	473,7333582	133,5623054	0,098843112	FALSE	469,089195	0,019042914	469,089195	458,9572238	136,5685666	0,101067903	FALSE	34,0%	450,4185221	150,704562	0,111529281	FALSE	33,3%
3698	2	1351,255566	Empty	672,8990406	417,5142763	133,5623054	0,098843112	FALSE	428,8084535	0,019042914	428,8084535	414,5080151	136,5685666	0,101067903	FALSE	30,7%	400,3720197	150,704562	0,111529281	FALSE	29,6%
3698	3	1351,255566	Empty	733,3368875	460,0079319	133,5623054	0,098843112	FALSE	453,3579178	0,019042914	453,3579178	477,7903274	136,5685666	0,101067903	FALSE	35,4%	500,4650246	150,704562	0,111529281	FALSE	37,0%
3699	1	987,2941946	Empty	508,8935258	360,1786107	129,3690312	0,131033923	FALSE	360,944154	0,073361361	360,944154	335,7364537	147,4928924	0,149391026	FALSE	34,0%	329,0980649	154,1312812	0,156114846	FALSE	33,3%
3699	2	987,2941946	Empty	457,0604203	299,7305793	129,3690312	0,131033923	FALSE	291,8811967	0,073361361	291,8811967	301,5401785	147,4928924	0,149391026	FALSE	30,5%	340,0680004	154,1312812	0,156114846	FALSE	34,4%
3699	3	987,2941946	Empty	469,781624	327,3850047	129,3690312	0,131033923	FALSE	334,4688439	0,073361361	334,4688439	350,0175624	147,4928924	0,149391026	FALSE	35,5%	318,1281294	154,1312812	0,156114846	FALSE	32,2%
3700	1	982,2433785	Empty	492,3673584	340,7297494	102,3122228	0,104161784	FALSE	347,9568595	0,067707785	347,9568595	312,0460676	130,9959045	0,133363999	FALSE	31,8%	365,4859083	118,7210165	0,12086721	FALSE	37,2%
3700	2	982,2433785	Empty	490,9175147	322,8730551	102,3122228	0,104161784	FALSE	313,6933147	0,067707785	313,6933147	311,1272049	130,9959045	0,133363999	FALSE	31,7%	319,8001697	118,7210165	0,12086721	FALSE	32,6%
3700	3	982,2433785	Empty	475,5526627	318,640574	102,3122228	0,104161784	FALSE	320,5932043	0,067707785	320,5932043	359,0701059	130,9959045	0,133363999	FALSE	36,6%	296,9573005	118,7210165	0,12086721	FALSE	30,2%
3701	1	1075,469213	Non-Empty	830,0003718	370,5444994	0	0	TRUE	363,6376403	0	366,8710221	344,6649176	0	0	TRUE	32,0%	419,0139792	0	0	TRUE	39,0%
3701	2	1075,469213	Non-Empty	837,2140075	389,1556695	0	0	TRUE	393,6463449	0	370,0595435	347,660443	0	0	TRUE	32,3%	363,1454487	0	0	TRUE	33,8%
3701	3	1075,469213	Non-Empty	765,9018743	315,7690445	0	0	TRUE	318,1852282	0	338,5386477	383,1438527	0	0	TRUE	35,6%	293,3097855	0	0	TRUE	27,3%
3702	1	1057,229227	Non-Empty	669,4164414	342,3945998	0	0	TRUE	330,8702312	0,02320736	348,172739	331,5426461	31,19345921	0,029504916	FALSE	31,4%	289,3469462	0	0	TRUE	27,4%
3702	2	1057,229227	Non-Empty	649,1870659	376,3174661	0	0	TRUE	418,9453392	0,02320736	352,7170794	321,5236201	31,19345921	0,029504916	FALSE	30,4%	356,1193184	0	0	TRUE	33,7%
3702	3	1057,229227	Non-Empty	685,1181381	338,5171608	0	0	TRUE	307,4136563	0,02320736	356,3394083	404,1629604	31,19345921	0,029504916	FALSE	38,2%	411,762962	0	0	TRUE	38,9%
3703	1	899,5524415	Non-Empty	669,2324824	267,8185817	0	0	TRUE	280,5844212	0	281,03826	290,3205019	0	0	TRUE	32,3%	284,6684942	0	0	TRUE	31,6%
3703	2	899,5524415	Non-Empty	685,7486322	268,4421108	0	0	TRUE	265,3153297	0	287,974071	297,4853916	0	0	TRUE	33,1%	318,8287135	0	0	TRUE	35,4%
3703	3	899,5524415	Non-Empty	787,1105475	363,291749	0	0	TRUE	353,6526907	0	330,5401105	311,7465481	0	0	TRUE	34,7%	296,0552339	0	0	TRUE	32,9%
3704	1	1162,678373	Empty	508,077157	358,7286238	149,3485331	0,128452147	FALSE	388,8342015	0,129582277	388,8342015	325,4776269	182,59953	0,157050767	FALSE	28,0%	408,8539332	228,5238827	0,196549526	FALSE	35,2%
3704	2	1162,678373	Empty	634,1513548	428,9209679	149,3485331	0,128452147	FALSE	403,1446917	0,129582277	403,1446917	406,2416018	182,59953	0,157050767	FALSE	34,9%	293,8637645	228,5238827	0,196549526	FALSE	25,3%
3704	3	1162,678373	Empty	558,8121931	375,0287808	149,3485331	0,128452147	FALSE	370,6994794	0,129582277	370,6994794	430,9591438	182,59953	0,157050767	FALSE	37,1%	459,9606748	228,5238827	0,196549526	FALSE	39,6%
3705	1	781,3439201	Non-Empty	503,4516149	256,2155962	0	0	TRUE	275,4034846	0	248,8706603	237,9435591	0	0	TRUE	30,5%	260,4479734	0	0	TRUE	33,3%
3705	2	781,3439201	Non-Empty	550,7818445	276,0586117	0	0	TRUE	267,759286	0	272,2673585	260,3129843	0	0	TRUE	33,3%	260,4479734	0	0	TRUE	33,3%
3705	3	781,3439201	Non-Empty	526,3821822	249,0697123	0	0	TRUE	238,1811495	0	260,2059014	283,0873767	0	0	TRUE	36,2%	260,4479734	0			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3721	1	564,5262622	Non-Empty	411,7660882	163,4188071	0	0	TRUE	168,1993698	0	175,5805205	175,0218767	0	0	TRUE	31,0%	164,1064716	0	0	TRUE	29,1%
3721	2	564,5262622	Non-Empty	442,3582635	183,4327414	0	0	TRUE	177,6350631	0	188,6252811	188,0251328	0	0	TRUE	33,3%	236,3133191	0	0	TRUE	41,9%
3721	3	564,5262622	Non-Empty	469,7854421	217,6747137	0	0	TRUE	218,6918293	0	200,3204606	201,4792527	0	0	TRUE	35,7%	164,1064716	0	0	TRUE	29,1%
3722	1	949,1580783	Non-Empty	629,1658292	269,1324012	0	0	TRUE	245,0170024	0	305,1633282	293,7091631	0	0	TRUE	30,9%	325,1745268	0	0	TRUE	34,3%
3722	2	949,1580783	Non-Empty	667,1605676	316,3856659	0	0	TRUE	301,5287933	0	323,5918573	311,4459859	0	0	TRUE	32,8%	281,2320232	0	0	TRUE	29,6%
3722	3	949,1580783	Non-Empty	660,5857687	363,6400111	0	0	TRUE	402,6122826	0	320,4028928	344,0029293	0	0	TRUE	36,2%	342,7515283	0	0	TRUE	36,1%
3723	1	1185,013963	Empty	587,1736901	407,9769672	105,7819434	0,089266411	FALSE	406,2891064	0,011524525	406,2891064	385,1795685	124,4542192	0,10502342	FALSE	32,5%	438,8940605	124,080011	0,104707636	FALSE	37,0%
3723	2	1185,013963	Empty	544,484916	369,4133161	105,7819434	0,089266411	FALSE	371,8505781	0,011524525	371,8505781	357,176196	124,4542192	0,10502342	FALSE	30,1%	351,1152484	124,080011	0,104707636	FALSE	29,6%
3723	3	1185,013963	Empty	585,8819434	407,6236801	105,7819434	0,089266411	FALSE	406,8742789	0,011524525	406,8742789	442,658199	124,4542192	0,10502342	FALSE	37,4%	395,0046545	124,080011	0,104707636	FALSE	33,3%
3724	1	764,1556862	Non-Empty	574,2836045	222,5373308	0	0	TRUE	236,4344313	0	235,7989512	227,1991495	0	0	TRUE	29,7%	276,8680022	0	0	TRUE	36,2%
3724	2	764,1556862	Non-Empty	656,4464381	281,5443172	0	0	TRUE	272,2855705	0	269,5347393	259,7045628	0	0	TRUE	34,0%	243,643842	0	0	TRUE	31,9%
3724	3	764,1556862	Non-Empty	630,3557664	260,0740382	0	0	TRUE	255,4356843	0	258,8219957	277,2519739	0	0	TRUE	36,3%	243,643842	0	0	TRUE	31,9%
3725	1	876,079718	Non-Empty	552,2093212	263,736548	0	0	TRUE	272,0757251	0	273,860811	268,7289396	0	0	TRUE	30,7%	285,6781689	0	0	TRUE	32,6%
3725	2	876,079718	Non-Empty	607,6606102	297,2600734	0	0	TRUE	283,6714869	0	301,3611345	295,7139353	0	0	TRUE	33,8%	342,8138027	0	0	TRUE	39,1%
3725	3	876,079718	Non-Empty	606,6456376	315,0830967	0	0	TRUE	320,3325061	0	300,8577725	311,6368431	0	0	TRUE	35,6%	247,5877464	0	0	TRUE	28,3%
3726	1	673,8070091	Non-Empty	386,0304778	180,8026808	0	0	TRUE	213,640918	0	187,3984753	185,0348104	0	0	TRUE	27,5%	240,1688349	0	0	TRUE	35,6%
3726	2	673,8070091	Non-Empty	458,9258308	229,5802421	0	0	TRUE	238,3006877	0	222,7855206	219,9755174	0	0	TRUE	32,6%	240,1688349	0	0	TRUE	35,6%
3726	3	673,8070091	Non-Empty	543,0488032	263,4240862	0	0	TRUE	221,8654034	0	263,6230131	268,7966812	0	0	TRUE	39,9%	193,4693392	0	0	TRUE	28,7%
3727	1	1723,572378	Empty	882,655906	600,2107551	236,1323414	0,137001697	FALSE	594,1497044	0,06422228	594,1497044	563,6993999	279,9278062	0,162411402	FALSE	32,7%	554,7129493	324,3245408	0,188169957	FALSE	32,2%
3727	2	1723,572378	Empty	845,0396513	583,4716184	236,1323414	0,137001697	FALSE	598,2876856	0,06422228	598,2876856	539,6761536	279,9278062	0,162411402	FALSE	31,3%	495,279419	324,3245408	0,188169957	FALSE	28,7%
3727	3	1723,572378	Empty	825,0291213	539,8900046	236,1323414	0,137001697	FALSE	531,1349882	0,06422228	620,1968247	279,9278062	0,162411402	FALSE	36,0%	673,5800099	324,3245408	0,188169957	FALSE	39,1%	
3728	1	1350,506755	Empty	625,1024128	413,3738242	171,0763582	0,126675678	FALSE	416,4554937	0,033036956	416,4554937	405,9223974	202,3832275	0,149857249	FALSE	30,1%	345,1295039	239,3206785	0,177208057	FALSE	25,6%
3728	2	1350,506755	Empty	710,4342269	495,6733882	171,0763582	0,126675678	FALSE	495,7228077	0,033036956	495,7228077	461,3342689	202,3832275	0,149857249	FALSE	34,2%	495,18581	239,3206785	0,177208057	FALSE	36,7%
3728	3	1350,506755	Empty	659,4008891	441,4595421	171,0763582	0,126675678	FALSE	438,3284532	0,033036956	438,3284532	483,2500883	202,3832275	0,149857249	FALSE	35,8%	510,1914406	239,3206785	0,177208057	FALSE	37,8%
3729	1	1187,704919	Empty	629,0778243	405,2667945	123,5717335	0,104042453	FALSE	403,0986961	0,034973485	403,0986961	393,8804547	127,4908817	0,107342219	FALSE	33,2%	438,3196723	242,5375028	0,204206869	FALSE	36,9%
3729	2	1187,704919	Empty	605,4593956	380,6854695	123,5717335	0,104042453	FALSE	377,5544746	0,034973485	377,5544746	379,0923998	127,4908817	0,107342219	FALSE	31,9%	466,5983609	242,5375028	0,204206869	FALSE	39,3%
3729	3	1187,704919	Empty	618,0964927	401,7526546	123,5717335	0,104042453	FALSE	407,0517478	0,034973485	407,0517478	414,7320641	127,4908817	0,107342219	FALSE	34,9%	282,7868854	242,5375028	0,204206869	FALSE	23,8%
3730	1	1404,820373	Empty	630,9843605	420,7904138	195,1990488	0,138949472	FALSE	435,6301858	0,055184628	435,6301858	440,4350742	225,0978795	0,160232499	FALSE	31,4%	558,7353758	294,9932033	0,209986422	FALSE	39,8%
3730	2	1404,820373	Empty	686,8491584	450,655568	195,1990488	0,138949472	FALSE	439,4956964	0,055184628	439,4956964	479,4294106	225,0978795	0,160232499	FALSE	34,1%	431,0244328	294,9932033	0,209986422	FALSE	30,7%
3730	3	1404,820373	Empty	762,0880105	533,7343916	195,1990488	0,138949472	FALSE	529,6944914	0,055184628	529,6944914	484,9558887	225,0978795	0,160232499	FALSE	34,5%	415,0605649	294,9932033	0,209986422	FALSE	29,5%
3731	1	888,189031	Non-Empty	697,4286375	320,2200777	0	0	TRUE	316,4956642	0	308,3917532	303,864142	0	0	TRUE	34,2%	246,7191753	0	0	TRUE	27,8%
3731	2	888,189031	Non-Empty	622,0601373	263,9188888	0	0	TRUE	279,261788	0	275,0650117	271,0266825	0	0	TRUE	30,5%	345,4068454	0	0	TRUE	38,9%
3731	3	888,189031	Non-Empty	689,152699	304,0500651	0	0	TRUE	292,4315789	0	304,732266	313,2982066	0	0	TRUE	35,3%	296,0630103	0	0	TRUE	33,3%
3732	1	713,9952746	Non-Empty	580,2279166	242,504073	0	0	TRUE	211,8734625	0	253,3396507	244,9104726	0	0	TRUE	34,3%	181,9987955	0	0	TRUE	25,5%
3732	2	713,9952746	Non-Empty	518,0981685	226,4881047	0	0	TRUE	241,9712741	0	226,2125025	218,6859055	0	0	TRUE	30,6%	258,9982859	0	0	TRUE	36,3%
3732	3	713,9952746	Non-Empty	536,9488888	245,0030969	0	0	TRUE	260,1505381	0	234,4431215	250,3988965	0	0	TRUE	35,1%	272,9981932	0	0	TRUE	38,2%
3733	1	933,2652776	Non-Empty	614,6745496	318,9322416	0	0	TRUE	346,4566651	0	301,4370354	285,240028	0	0	TRUE	30,6%	279,9795833	0	0	TRUE	30,0%
3733	2	933,2652776	Non-Empty	657,7901666	316,456908	0	0	TRUE	298,3903809	0	322,5809786	305,2478513	0	0	TRUE	32,7%	349,9744791	0	0	TRUE	37,5%
3733	3	933,2652776	Non-Empty	630,6007558	297,8761279	0	0	TRUE	288,4182315	0	309,2472635	342,7773982	0	0	TRUE	36,7%	303,3112152	0	0	TRUE	32,5%
3734	1	1013,076916	Non-Empty	803,0583089	333,2729903	0	0	TRUE	316,6909708	0	342,8854707	344,0548248	0	0	TRUE	34,0%	328,9210765	0	0	TRUE	32,5%
3734	2	1013,076916	Non-Empty	726,9416181	304,9707995	0	0	TRUE	336,2032801	0	310,3855798	311,4440984	0	0	TRUE	30,7%	302,6073904	0	0	TRUE	29,9%
3734	3	1013,076916	Non-Empty	842,6868859	374,8331257	0	0	TRUE	360,1826646	0	359,805865	357,5779923	0	0	TRUE	35,3%	381,5484487	0	0	TRUE	37,7%
3735	1	930,2429445	Non-Empty	642,4763956	289,457225	0	0	TRUE	306,185666	0	293,0440311	287,64413	0	0	TRUE	30,9%	299,7449488	0	0	TRUE	32,2%
3735	2	930,2429445	Non-Empty	694,1443691	313,4744921	0	0	TRUE	302,5522266	0	316,610642	310,7764807	0	0	TRUE	33,4%	299,7449488	0	0	TRUE	32,2%
3735	3	930,2429445	Non-Empty	702,8650142	327,3112273	0	0	TRUE	321,5050519	0	320,5882714	331,8223338	0	0	TRUE	35,7%	330,7530469	0	0	TRUE	35,6%
3736	1	810,7959994	Non-Empty	661,2486877	247,5705176	0	0	TRUE	233,0303904	0	266,9729542	261,1653756	0	0	TRUE	32,2%	324,3183998	0	0	TRUE	40,0%
3736	2	810,7959994	Non-Empty	658,155427	283,0875626	0	0	TRUE	307,157741	0	265,7240793	259,943668	0	0	TRUE	32,1%	243,2387998	0	0	TRUE	30,0%
3736	3	810,7959994	Non-Empty	688,8060133	280,1379192	0	0	TRUE	270,607868	0	278,0989659	289,6869558	0	0	TRUE	35,7%	243,2387998	0	0	TRUE	30,0%
3737	1	1236,574114	Empty	637,2931745	408,1842148	167,6440139	0,135571343	FALSE	405,2510433	0,018203183	405,2510433	406,5940727	170,1308977	0,137582451	FALSE	32,9%	432,0560156	206,7016376	0,167156691	FALSE	34,9%
3737	2	1236,574114	Empty	643,4954744	416,8701926	167,6440139	0,135571343	FALSE	416,420699	0,018203183	416,420699	410,55115	170,1308977	0,137582451	FALSE	33,2%	432,0560156	206,7016376	0,167156691	FALSE	34,9%
3737	3	1236,574114	Empty	634,3128292	411,5197061	167,6440139	0,135571343	FALSE	414,9023712	0,018203183	414,9023712	419,4288908									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3752	1	846,3118842	Non-Empty	602,8040576	296,6378139	0	0	TRUE	280,0904566	0	297,4402952	283,3232056	0	0	TRUE	33,5%	206,6575531	0	0	TRUE	24,4%
3752	2	846,3118842	Non-Empty	562,1080818	273,3056321	0	0	TRUE	274,1220688	0	277,3597683	264,1957392	0	0	TRUE	31,2%	314,9067476	0	0	TRUE	37,2%
3752	3	846,3118842	Non-Empty	550,2564039	276,3684381	0	0	TRUE	292,0993588	0	271,5118207	298,7929394	0	0	TRUE	35,3%	324,7475835	0	0	TRUE	38,4%
3753	1	1723,532029	Empty	850,3129925	548,3049487	208,4324894	0,120933343	FALSE	551,2113991	0,048895336	551,2113991	547,0647473	228,6228661	0,132647878	FALSE	31,7%	604,1246288	241,8461666	0,140320088	FALSE	35,1%
3753	2	1723,532029	Empty	876,7023216	584,2331917	208,4324894	0,120933343	FALSE	596,6785561	0,048895336	596,6785561	564,042815	228,6228661	0,132647878	FALSE	32,7%	550,8195145	241,8461666	0,140320088	FALSE	32,0%
3753	3	1723,532029	Empty	911,2601979	590,9938889	208,4324894	0,120933343	FALSE	575,6420741	0,048895336	575,6420741	612,4244669	228,6228661	0,132647878	FALSE	35,5%	568,5878859	241,8461666	0,140320088	FALSE	33,0%
3754	1	973,5455778	Non-Empty	639,9620636	300,7658155	0	0	TRUE	330,0514511	0	299,68007	294,4618185	0	0	TRUE	30,2%	327,8265721	0	0	TRUE	33,7%
3754	2	973,5455778	Non-Empty	718,6193995	338,6244538	0	0	TRUE	327,1113919	0	336,5135594	330,6539359	0	0	TRUE	34,0%	337,7607107	0	0	TRUE	34,7%
3754	3	973,5455778	Non-Empty	720,4097661	334,1553086	0	0	TRUE	316,3827349	0	337,3519485	348,4298234	0	0	TRUE	35,8%	307,958295	0	0	TRUE	31,6%
3755	1	1557,31102	Empty	736,615734	468,5933801	196,4149775	0,126124438	FALSE	510,9086778	0,098707231	510,9086778	459,4888004	205,5195572	0,131970785	FALSE	29,5%	502,3583936	208,5920825	0,133943753	FALSE	32,3%
3755	2	1557,31102	Empty	879,7716378	546,3971115	196,4149775	0,126124438	FALSE	523,3602368	0,098707231	523,3602368	548,7871027	205,5195572	0,131970785	FALSE	35,2%	468,8678341	208,5920825	0,133943753	FALSE	30,1%
3755	3	1557,31102	Empty	871,9366033	542,3205287	196,4149775	0,126124438	FALSE	523,0421057	0,098707231	523,0421057	549,0351172	205,5195572	0,131970785	FALSE	35,3%	586,0847926	208,5920825	0,133943753	FALSE	37,6%
3756	1	1336,247142	Empty	669,7742788	446,9847822	190,7282857	0,142734289	FALSE	432,92320504	0,093191221	432,92320504	429,518295	237,907144	0,178041274	FALSE	32,1%	468,3752869	236,1782384	0,176747423	FALSE	35,1%
3756	2	1336,247142	Empty	663,2262941	472,4980083	190,7282857	0,142734289	FALSE	490,4974875	0,093191221	490,4974875	425,3191501	237,907144	0,178041274	FALSE	31,8%	427,0480557	236,1782384	0,176747423	FALSE	32,0%
3756	3	1336,247142	Empty	629,4298638	416,7643514	190,7282857	0,142734289	FALSE	412,8266039	0,093191221	412,8266039	481,4096969	237,907144	0,178041274	FALSE	36,0%	440,8237994	236,1782384	0,176747423	FALSE	33,0%
3757	1	1437,548264	Empty	706,1043401	475,5401304	198,8957568	0,13835762	FALSE	477,5346216	0,004631055	477,5346216	461,1858942	213,2499929	0,148342841	FALSE	32,1%	511,1282718	301,4281471	0,209682106	FALSE	35,6%
3757	2	1437,548264	Empty	726,3651835	490,839784	198,8957568	0,13835762	FALSE	487,8730855	0,004631055	487,8730855	474,4190874	213,2499929	0,148342841	FALSE	33,0%	383,3462038	301,4281471	0,209682106	FALSE	26,7%
3757	3	1437,548264	Empty	702,7548438	471,1683501	198,8957568	0,13835762	FALSE	472,1405573	0,004631055	472,1405573	501,9432828	213,2499929	0,148342841	FALSE	34,9%	543,0737888	301,4281471	0,209682106	FALSE	37,8%
3758	1	712,4209855	Non-Empty	533,7641897	200,8136685	0	0	TRUE	195,0741251	0	224,470311	210,3559031	0	0	TRUE	29,5%	243,4856533	0	0	TRUE	34,2%
3758	2	712,4209855	Non-Empty	626,9334092	302,6500777	0	0	TRUE	305,5777242	0	263,6518898	247,0737941	0	0	TRUE	34,7%	243,4856533	0	0	TRUE	34,2%
3758	3	712,4209855	Non-Empty	533,3563202	208,9572392	0	0	TRUE	211,7691361	0	224,2987847	254,9912883	0	0	TRUE	35,8%	225,4496789	0	0	TRUE	31,6%
3759	1	1426,01603	Empty	780,4785819	501,5257905	171,3277572	0,120144342	FALSE	487,6541138	0,061833226	487,6541138	492,7941497	180,8544377	0,126824968	FALSE	34,6%	528,154085	234,9745339	0,164776923	FALSE	37,0%
3759	2	1426,01603	Empty	674,2916629	435,2744132	171,3277572	0,120144342	FALSE	461,3382783	0,061833226	461,3382783	425,7477327	180,8544377	0,126824968	FALSE	29,9%	510,5489488	234,9745339	0,164776923	FALSE	35,8%
3759	3	1426,01603	Empty	766,4891291	489,2158259	171,3277572	0,120144342	FALSE	477,0236374	0,061833226	477,0236374	507,4741471	180,8544377	0,126824968	FALSE	35,6%	387,3129957	234,9745339	0,164776923	FALSE	27,2%
3760	1	1099,71691	Non-Empty	848,4626488	387,799503	0	0	TRUE	384,9466855	0	377,3534396	370,2548392	0	0	TRUE	33,7%	403,6935491	0	0	TRUE	36,7%
3760	2	1099,71691	Non-Empty	799,4443662	347,6444338	0	0	TRUE	353,4939351	0	355,552577	348,8640845	0	0	TRUE	31,7%	375,8526147	0	0	TRUE	34,2%
3760	3	1099,71691	Non-Empty	824,7581958	364,1925256	0	0	TRUE	361,2762892	0	366,8108931	380,5979861	0	0	TRUE	34,6%	320,1707459	0	0	TRUE	29,1%
3761	1	1270,638486	Empty	671,797786	463,6570021	197,9658721	0,155800312	FALSE	459,17945	0,035530099	459,17945	440,4901337	207,3108806	0,163154889	FALSE	34,7%	407,0977674	239,8011146	0,188724895	FALSE	32,0%
3761	2	1270,638486	Empty	588,8907132	395,4739217	197,9658721	0,155800312	FALSE	405,7203619	0,035530099	405,7203619	386,1289132	207,3108806	0,163154889	FALSE	30,4%	419,4340634	239,8011146	0,188724895	FALSE	33,0%
3761	3	1270,638486	Empty	620,939682	411,5075622	197,9658721	0,155800312	FALSE	405,7386741	0,035530099	405,7386741	444,0194391	207,3108806	0,163154889	FALSE	34,9%	444,1066553	239,8011146	0,188724895	FALSE	35,0%
3762	1	1157,614239	Empty	625,2355048	417,9357319	162,0632637	0,139997642	FALSE	405,4239909	0,076925089	405,4239909	388,1856447	156,4958723	0,135188275	FALSE	33,5%	385,871413	158,810104	0,137187414	FALSE	33,3%
3762	2	1157,614239	Empty	594,2491207	389,1670921	162,0632637	0,139997642	FALSE	378,8730954	0,076925089	378,8730954	368,9473427	156,4958723	0,135188275	FALSE	31,9%	385,871413	158,810104	0,137187414	FALSE	33,3%
3762	3	1157,614239	Empty	522,4937095	350,5114151	162,0632637	0,139997642	FALSE	373,3171527	0,076925089	373,3171527	400,4812517	156,4958723	0,135188275	FALSE	34,6%	385,871413	158,810104	0,137187414	FALSE	33,3%
3763	1	1167,557467	Empty	550,7692489	344,6565346	152,1780948	0,130338848	FALSE	318,4089876	0,205363363	318,4089876	372,8322739	173,8195236	0,148874234	FALSE	31,9%	351,4007911	155,5498956	0,133226758	FALSE	30,1%
3763	2	1167,557467	Empty	581,4199767	400,1152842	152,1780948	0,130338848	FALSE	398,6757589	0,205363363	398,6757589	393,5806737	173,8192236	0,148874234	FALSE	33,7%	396,7428286	155,5498956	0,133226758	FALSE	34,0%
3763	3	1167,557467	Empty	574,963743	422,7856482	152,1780948	0,130338848	FALSE	450,4727206	0,205363363	450,4727206	401,1445194	173,8192236	0,148874234	FALSE	34,4%	419,4138474	155,5498956	0,133226758	FALSE	35,9%
3764	1	1103,290728	Empty	534,2822354	345,7795265	149,821048	0,135794713	FALSE	336,896221	0,105754432	336,896221	365,5131932	151,9507858	0,137725064	FALSE	33,1%	383,7532967	164,6611456	0,149245472	FALSE	34,8%
3764	2	1103,290728	Empty	499,5719721	343,8969437	149,821048	0,135794713	FALSE	367,8413187	0,105754432	367,8413187	341,7672059	151,9507858	0,137725064	FALSE	31,0%	359,7687157	164,6611456	0,149245472	FALSE	32,6%
3764	3	1103,290728	Empty	608,2947307	413,6142579	149,821048	0,135794713	FALSE	398,5531883	0,105754432	398,5531883	396,010329	151,9507858	0,137725064	FALSE	35,9%	359,7687157	164,6611456	0,149245472	FALSE	32,6%
3765	1	1556,06884	Empty	708,1408177	478,8804937	207,1584374	0,133129353	FALSE	489,7103487	0,067686392	489,7103487	478,6737042	208,6427234	0,134083222	FALSE	30,8%	518,6896134	233,4057208	0,14999704	FALSE	33,3%
3765	2	1556,06884	Empty	789,9044652	530,2030129	207,1584374	0,133129353	FALSE	510,5917397	0,067686392	510,5917397	533,9425251	208,6427234	0,134083222	FALSE	34,3%	518,6896134	233,4057208	0,14999704	FALSE	33,3%
3765	3	1556,06884	Empty	778,2940943	546,9853336	207,1584374	0,133129353	FALSE	555,7667518	0,067686392	555,7667518	543,4526108	208,6427234	0,134083222	FALSE	34,9%	518,6896134	233,4057208	0,14999704	FALSE	33,3%
3766	1	1159,913805	Non-Empty	877,8596842	416,9419776	0	0	TRUE	403,7669529	0	406,785403	389,9815677	0	0	TRUE	33,6%	376,5953911	0	0	TRUE	32,5%
3766	2	1159,913805	Non-Empty	804,7674102	379,2697649	0	0	TRUE	401,5148013	0	372,9156734	357,5109576	0	0	TRUE	30,8%	421,7868381	0	0	TRUE	36,4%
3766	3	1159,913805	Non-Empty	820,5147557	363,7020622	0	0	TRUE	354,6320504	0	380,2127283	412,4212793	0	0	TRUE	35,6%	361,5315755	0	0	TRUE	31,2%
3767	1	1272,952189	Empty	723,6242092	458,2673996	109,6292083	0,086122016	FALSE	457,3897771	0,028836405	457,3897771	417,2325696	144,6380326	0,113624089	FALSE	32,8%	353,5978303	208,2727719	0,163613978	FALSE	27,8%
3767	2	1272,952189	Empty	702,1113625	433,3614147	1															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3783	1	902,2646344	Empty	438,0231058	246,9589267	46,07462215	0,05106553	FALSE	237,889638	0,14915531	237,889638	259,4527983	46,55446037	0,051597346	FALSE	28,8%	267,9993964	68,95424496	0,076423526	FALSE	29,7%
3783	2	902,2646344	Empty	537,7874705	346,5600621	46,07462215	0,05106553	FALSE	337,3275441	0,14915531	337,3275441	318,5458991	46,55446037	0,051597346	FALSE	35,3%	348,3992153	68,95424496	0,076423526	FALSE	38,6%
3783	3	902,2646344	Empty	472,4387292	308,7456546	46,07462215	0,05106553	FALSE	327,0474523	0,14915531	327,0474523	324,265937	46,55446037	0,051597346	FALSE	35,9%	285,8660228	68,95424496	0,076423526	FALSE	31,7%
3784	1	1343,48854	Empty	657,4912476	457,4539404	193,655107	0,144143475	FALSE	483,7671855	0,113506559	483,7671855	424,2115087	226,8975387	0,168886843	FALSE	31,6%	509,5991013	215,8527709	0,160665882	FALSE	37,9%
3784	2	1343,48854	Empty	683,224261	441,0121143	193,655107	0,144143475	FALSE	425,15052	0,113506559	425,15052	440,8143768	226,8975387	0,168886843	FALSE	32,8%	447,8295133	215,8527709	0,160665882	FALSE	33,3%
3784	3	1343,48854	Empty	681,8246885	445,0224852	193,655107	0,144143475	FALSE	434,5708343	0,113506559	434,5708343	478,4626543	226,8975387	0,168886843	FALSE	35,6%	386,0599252	215,8527709	0,160665882	FALSE	28,7%
3785	1	899,9254649	Non-Empty	583,3111454	275,4058256	0	0	TRUE	266,9620215	0	291,9054837	284,1317588	0	0	TRUE	31,6%	282,5347739	0	0	TRUE	31,4%
3785	2	899,9254649	Non-Empty	600,4301278	320,4833324	0	0	TRUE	339,9980525	0	300,4723092	292,4704415	0	0	TRUE	32,5%	292,9989886	0	0	TRUE	32,6%
3785	3	899,9254649	Non-Empty	614,5687385	304,0363069	0	0	TRUE	292,9653909	0	307,5476721	323,3232647	0	0	TRUE	35,9%	324,3917374	0	0	TRUE	36,0%
3786	1	1314,199435	Empty	632,6725096	455,5016534	177,1708562	0,134812762	FALSE	476,9453132	0,10043474	476,9453132	422,3485165	210,3239931	0,160039631	FALSE	32,1%	472,5211451	221,2290898	0,168337532	FALSE	36,0%
3786	2	1314,199435	Empty	612,1677173	408,0741424	177,1708562	0,134812762	FALSE	402,5950836	0,10043474	402,5950836	408,6602837	210,3239931	0,160039631	FALSE	31,1%	472,5211451	221,2290898	0,168337532	FALSE	36,0%
3786	3	1314,199435	Empty	665,2027562	450,6236391	177,1708562	0,134812762	FALSE	434,6590381	0,10043474	434,6590381	483,1906346	210,3239931	0,160039631	FALSE	36,8%	369,1571446	221,2290898	0,168337532	FALSE	28,1%
3787	1	1417,895165	Empty	752,2010781	512,5255695	186,4096016	0,131469241	FALSE	514,7540341	0,047542107	514,7540341	470,3052115	223,1670562	0,157393199	FALSE	33,2%	362,0157868	331,4564809	0,233766564	FALSE	25,5%
3787	2	1417,895165	Empty	720,6364901	468,8126842	186,4096016	0,131469241	FALSE	458,8928515	0,047542107	458,8928515	450,5698101	223,1670562	0,157393199	FALSE	31,8%	512,855698	331,4564809	0,233766564	FALSE	36,2%
3787	3	1417,895165	Empty	670,7695166	436,5569114	186,4096016	0,131469241	FALSE	444,2482795	0,047542107	444,2482795	497,0201436	223,1670562	0,157393199	FALSE	35,1%	543,0236802	331,4564809	0,233766564	FALSE	38,3%
3788	1	837,3754545	Non-Empty	621,909538	289,9448828	0	0	TRUE	299,7190972	0	279,5951901	270,2474972	0	0	TRUE	32,3%	310,1390572	0	0	TRUE	37,0%
3788	2	837,3754545	Non-Empty	628,69401	275,338599	0	0	TRUE	263,7220574	0	282,6453214	273,1956536	0	0	TRUE	32,6%	268,7871829	0	0	TRUE	32,1%
3788	3	837,3754545	Non-Empty	611,988515	272,0919726	0	0	TRUE	273,9342998	0	275,1349429	293,9323036	0	0	TRUE	35,1%	258,4492143	0	0	TRUE	30,9%
3789	1	1760,855239	Empty	962,0254203	648,5719099	238,4974552	0,135444101	FALSE	637,3933552	0,010971986	637,3933552	602,1597751	262,5891261	0,149125902	FALSE	34,2%	645,6469209	327,254745	0,185849886	FALSE	36,7%
3789	2	1760,855239	Empty	871,6622609	569,4239506	238,4974552	0,135444101	FALSE	569,460596	0,010971986	569,460596	545,5988375	262,5891261	0,149125902	FALSE	31,0%	469,561397	327,254745	0,185849886	FALSE	26,7%
3789	3	1760,855239	Empty	833,9924248	482,8593784	238,4974552	0,135444101	FALSE	554,0012876	0,010971986	554,0012876	613,0966262	262,5891261	0,149125902	FALSE	34,8%	645,6469209	327,254745	0,185849886	FALSE	36,7%
3790	1	687,0475316	Non-Empty	496,7601852	214,2067623	0	0	TRUE	226,6702389	0	217,0970315	217,7819616	0	0	TRUE	31,7%	271,6234427	0	0	TRUE	39,5%
3790	2	687,0475316	Non-Empty	513,3666563	213,0445243	0	0	TRUE	207,7392917	0	224,3544883	225,0623152	0	0	TRUE	32,8%	183,7452701	0	0	TRUE	26,7%
3790	3	687,0475316	Non-Empty	561,9713886	259,796245	0	0	TRUE	252,638001	0	245,5960117	244,2032548	0	0	TRUE	35,5%	231,6788188	0	0	TRUE	33,7%
3791	1	615,7190933	Non-Empty	458,3848939	189,3033938	0	0	TRUE	190,7876394	0	197,7253064	190,9336897	0	0	TRUE	31,0%	205,2396978	0	0	TRUE	33,3%
3791	2	615,7190933	Non-Empty	509,8275232	229,6888391	0	0	TRUE	220,1159007	0	219,9151948	212,3613833	0	0	TRUE	34,5%	150,5091117	0	0	TRUE	24,4%
3791	3	615,7190933	Non-Empty	459,2039131	196,7268603	0	0	TRUE	204,8155532	0	198,0785921	212,4240203	0	0	TRUE	34,5%	259,9702838	0	0	TRUE	42,2%
3792	1	644,5350996	Non-Empty	456,5310802	237,4561403	0	0	TRUE	217,2572102	0	237,076254	235,7260187	0	0	TRUE	36,6%	212,5594477	0	0	TRUE	33,0%
3792	2	644,5350996	Non-Empty	321,8652671	150,6156796	0	0	TRUE	178,2421018	0	167,1443964	166,1924483	0	0	TRUE	25,8%	205,7026913	0	0	TRUE	31,9%
3792	3	644,5350996	Non-Empty	462,7667816	256,4632797	0	0	TRUE	249,0357875	0	240,3144492	242,6166326	0	0	TRUE	37,6%	226,2729605	0	0	TRUE	35,1%
3793	1	1196,220825	Empty	573,8348581	374,1511448	148,9206298	0,124492591	FALSE	385,5981942	0,048648288	385,5981942	366,8755204	156,1962543	0,130574766	FALSE	30,7%	381,2132299	202,5389907	0,16931572	FALSE	31,9%
3793	2	1196,220825	Empty	629,0772835	418,9672967	148,9206298	0,124492591	FALSE	419,9880726	0,048648288	419,9880726	402,1942071	156,1962543	0,130574766	FALSE	33,6%	354,9226623	202,5389907	0,16931572	FALSE	29,7%
3793	3	1196,220825	Empty	626,7009712	403,1023834	148,9206298	0,124492591	FALSE	390,6345582	0,048648288	390,6345582	427,1510975	156,1962543	0,130574766	FALSE	35,7%	460,0849327	202,5389907	0,16931572	FALSE	38,5%
3794	1	1069,855602	Non-Empty	827,0689021	368,3073517	0	0	TRUE	364,917012	0	363,2411633	363,3159156	0	0	TRUE	34,0%	346,9801953	0	0	TRUE	32,4%
3794	2	1069,855602	Non-Empty	753,7955721	317,7014705	0	0	TRUE	336,9785797	0	331,060181	331,1283108	0	0	TRUE	31,0%	361,4377035	0	0	TRUE	33,8%
3794	3	1069,855602	Non-Empty	855,1047603	383,8467801	0	0	TRUE	367,9600106	0	375,554258	375,4113759	0	0	TRUE	35,1%	361,4377035	0	0	TRUE	33,8%
3795	1	1125,056092	Non-Empty	797,2067447	371,9545501	0	0	TRUE	369,9499193	0	374,5209456	371,1870095	0	0	TRUE	33,0%	352,2902916	0	0	TRUE	31,3%
3795	2	1125,056092	Non-Empty	796,710661	376,7076574	0	0	TRUE	379,9522176	0	374,2878897	370,9560282	0	0	TRUE	33,0%	397,7471034	0	0	TRUE	35,4%
3795	3	1125,056092	Non-Empty	800,8813784	376,393885	0	0	TRUE	375,1539555	0	376,2475272	382,9130548	0	0	TRUE	34,0%	375,0186975	0	0	TRUE	33,3%
3796	1	1542,622876	Empty	804,82167	539,942472	220,1344791	0,142701423	FALSE	526,5664618	0,108581448	526,5664618	516,601912	198,7303202	0,12882625	FALSE	33,5%	559,4126914	243,5871014	0,157904505	FALSE	36,3%
3796	2	1542,622876	Empty	774,0704758	504,5745893	220,1344791	0,142701423	FALSE	486,5818907	0,108581448	486,5818907	496,8632216	198,7303202	0,12882625	FALSE	32,2%	508,5569922	243,5871014	0,157904505	FALSE	33,0%
3796	3	1542,622876	Empty	718,2402941	498,1058149	220,1344791	0,142701423	FALSE	529,4745237	0,108581448	529,4745237	529,1577426	198,7303202	0,12882625	FALSE	34,3%	474,6531927	243,5871014	0,157904505	FALSE	30,8%
3797	1	581,9316124	Non-Empty	364,8015229	199,7477367	0	0	TRUE	221,4023265	0	185,8835301	163,7707145	0	0	TRUE	28,1%	221,6882333	0	0	TRUE	38,1%
3797	2	581,9316124	Non-Empty	410,7582422	219,4799558	0	0	TRUE	214,9101254	0	209,3006396	184,4021107	0	0	TRUE	31,7%	182,8927925	0	0	TRUE	31,4%
3797	3	581,9316124	Non-Empty	366,4969753	162,7038799	0	0	TRUE	145,6191605	0	186,7474428	233,7587871	0	0	TRUE	40,2%	177,3505866	0	0	TRUE	30,5%
3798	1	975,6024238	Non-Empty	719,1976484	336,212617	0	0	TRUE	330,029348	0	333,1663817	328,0742272	0	0	TRUE	33,6%	360,9728968	0	0	TRUE	37,0%
3798	2	975,6024238	Non-Empty	660,9349872	306,630368	0	0	TRUE	329,1275111	0	306,1763602	301,4967244	0	0	TRUE	30,9%	312,1927756	0	0	TRUE	32,0%
3798	3	975,6024238	Non-Empty	725,8750752	332,7594388	0	0	TRUE	316,4455647	0	336,2596818	346,0314722	0	0	TRUE	35,5%	302,4367514	0	0	TRUE	31,0%
3799	1	975,8186202	Non-Empty	645,7946253	290,7807775	0	0	TRUE	298,2573564	0	305,4240803	301,1009256	0	0	TRUE	30,9%	346,6724045	0	0	TRUE	35,5%
3799	2	975,8186202	Non-Empty	722,9948239	339,6817473	0	0	TRUE	318,8590974												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3814	1	1144,068859	Non-Empty	852,7371026	372,5862289	0	0	TRUE	369,0655905	0	379,0230342	372,749286	0	0	TRUE	32,6%	334,2223634	0	0	TRUE	29,2%
3814	2	1144,068859	Non-Empty	865,0605462	385,7488071	0	0	TRUE	383,0673033	0	384,500536	378,1361218	0	0	TRUE	33,1%	385,6411886	0	0	TRUE	33,7%
3814	3	1144,068859	Non-Empty	856,1619165	385,7338234	0	0	TRUE	391,9359656	0	380,5452893	393,1834516	0	0	TRUE	34,4%	424,2053074	0	0	TRUE	37,1%
3815	1	1634,999132	Empty	823,9165733	623,6668522	212,6018672	0,130031792	FALSE	664,407569	0,293002812	664,407569	538,9012063	297,367513	0,181876251	FALSE	33,0%	565,9612379	270,3074815	0,165325765	FALSE	34,6%
3815	2	1634,999132	Empty	781,8550504	471,1339888	212,6018672	0,130031792	FALSE	401,4033651	0,293002812	401,4033651	511,3899192	297,367513	0,181876251	FALSE	31,3%	471,6343649	270,3074815	0,165325765	FALSE	28,8%
3815	3	1634,999132	Empty	752,1988217	540,1982907	212,6018672	0,130031792	FALSE	569,1881976	0,293002812	569,1881976	584,7080062	297,367513	0,181876251	FALSE	35,8%	597,4035289	270,3074815	0,165325765	FALSE	36,5%
3816	1	785,33604	Non-Empty	679,7574086	263,7216936	0	0	TRUE	258,9891969	0	264,3749558	257,1385602	0	0	TRUE	32,7%	285,5767418	0	0	TRUE	36,4%
3816	2	785,33604	Non-Empty	682,6517784	275,5608884	0	0	TRUE	279,7732168	0	265,5006499	258,2334421	0	0	TRUE	32,9%	203,983387	0	0	TRUE	26,0%
3816	3	785,33604	Non-Empty	656,8365081	246,053458	0	0	TRUE	246,5736263	0	255,4604343	269,9640378	0	0	TRUE	34,4%	295,7759112	0	0	TRUE	37,7%
3817	1	873,9038929	Non-Empty	640,3482885	377,6019931	0	0	TRUE	372,2569855	0	339,9551822	301,139046	15,02489129	0,017192842	FALSE	34,5%	377,3675901	0	0	TRUE	43,2%
3817	2	873,9038929	Non-Empty	544,3962034	266,0938408	0	0	TRUE	245,192766	0	289,0150779	256,0152908	15,02489129	0,017192842	FALSE	29,3%	278,0603296	0	0	TRUE	31,8%
3817	3	873,9038929	Non-Empty	461,3632642	230,208059	0	0	TRUE	256,4541414	0	244,9336328	316,7495561	15,02489129	0,017192842	FALSE	36,2%	218,4759732	0	0	TRUE	25,0%
3818	1	907,2339928	Empty	396,3860007	265,5918128	116,3567429	0,128254391	FALSE	286,2821183	0,119619486	286,2821183	267,9795505	113,9690052	0,125622503	FALSE	29,5%	326,1964918	157,5160472	0,173622294	FALSE	36,0%
3818	2	907,2339928	Empty	471,0732102	301,7313458	116,3567429	0,128254391	FALSE	283,8739748	0,119619486	283,8739748	318,4723651	113,9690052	0,125622503	FALSE	35,1%	305,809211	157,5160472	0,173622294	FALSE	33,7%
3818	3	907,2339928	Empty	494,2282621	339,9108342	116,3567429	0,128254391	FALSE	337,0778997	0,119619486	337,0778997	320,7820771	113,9690052	0,125622503	FALSE	35,4%	275,2282899	157,5160472	0,173622294	FALSE	30,3%
3819	1	964,3720556	Non-Empty	760,08227	325,3005466	0	0	TRUE	323,826881	0	323,7218221	323,4430422	0	0	TRUE	33,5%	298,4961125	0	0	TRUE	31,0%
3819	2	964,3720556	Non-Empty	738,0154729	306,7228394	0	0	TRUE	308,7382636	0	314,3234925	314,0528061	0	0	TRUE	32,6%	321,4573519	0	0	TRUE	33,3%
3819	3	964,3720556	Non-Empty	766,1984863	332,3486697	0	0	TRUE	331,806911	0	326,326741	326,8762073	0	0	TRUE	33,9%	344,4185913	0	0	TRUE	35,7%
3820	1	1149,65162	Non-Empty	793,7151906	438,453853	0	0	TRUE	453,6430311	0	403,580131	385,4556776	0	0	TRUE	33,5%	374,8863977	3,602240766	0,003133332	FALSE	32,6%
3820	2	1149,65162	Non-Empty	715,2156684	337,1771632	0	0	TRUE	329,5891737	0	363,6655019	347,3335819	0	0	TRUE	30,2%	362,3901844	3,602240766	0,003133332	FALSE	31,5%
3820	3	1149,65162	Non-Empty	752,0723079	374,0206034	0	0	TRUE	366,4194148	0	362,4059866	416,8623601	0	0	TRUE	36,3%	412,3750375	3,602240766	0,003133332	FALSE	35,9%
3821	1	1099,803368	Empty	580,2618015	396,400572	131,1513963	0,119249859	FALSE	382,2427598	0,040558011	382,2427598	347,7550271	169,9052175	0,154486904	FALSE	31,6%	449,9195596	205,8874894	0,187203909	FALSE	40,9%
3821	2	1099,803368	Empty	581,3820674	408,2317813	131,1513963	0,119249859	FALSE	404,7849125	0,040558011	404,7849125	348,4264104	169,9052175	0,154486904	FALSE	31,7%	312,4441386	205,8874894	0,187203909	FALSE	28,4%
3821	3	1099,803368	Empty	447,269751	295,1710146	131,1513963	0,119249859	FALSE	312,7756955	0,040558011	312,7756955	403,6219303	169,9052175	0,154486904	FALSE	36,7%	337,4396697	205,8874894	0,187203909	FALSE	30,7%
3822	1	935,2375981	Non-Empty	702,9089459	339,8353165	0	0	TRUE	343,1259228	0	323,1465768	314,8522768	0	0	TRUE	33,7%	295,3381889	0	0	TRUE	31,6%
3822	2	935,2375981	Non-Empty	659,2556385	295,2799592	0	0	TRUE	297,6685157	0	303,0779506	295,2987581	0	0	TRUE	31,6%	258,4209153	0	0	TRUE	27,6%
3822	3	935,2375981	Non-Empty	672,165721	300,1223224	0	0	TRUE	294,4431595	0	309,0130707	325,0865631	0	0	TRUE	34,8%	381,478494	0	0	TRUE	40,8%
3823	1	1289,498726	Empty	599,4355724	418,5370721	181,4205428	0,14069075	FALSE	429,7483326	0,038761893	429,7483326	388,3445332	211,6130817	0,164104917	FALSE	30,1%	385,3674353	214,5901796	0,166413642	FALSE	29,9%
3823	2	1289,498726	Empty	674,2220365	469,67126	181,4205428	0,14069075	FALSE	457,2302444	0,038761893	457,2302444	436,7949687	211,6130817	0,164104917	FALSE	33,9%	474,2983819	214,5901796	0,166413642	FALSE	36,8%
3823	3	1289,498726	Empty	592,1703993	401,2903937	181,4205428	0,14069075	FALSE	402,5201488	0,038761893	402,5201488	464,3592239	211,6130817	0,164104917	FALSE	36,0%	429,8329086	214,5901796	0,166413642	FALSE	33,3%
3824	1	1202,124012	Empty	633,6052832	389,0017283	135,1013919	0,11238557	FALSE	368,039229	0,172228279	368,039229	397,2794584	146,4659371	0,121839291	FALSE	33,0%	499,7594208	202,1101773	0,16812756	FALSE	41,6%
3824	2	1202,124012	Empty	634,7831823	394,9312027	135,1013919	0,11238557	FALSE	378,7202786	0,172228279	378,7202786	398,0180178	146,4659371	0,121839291	FALSE	33,1%	351,1822957	202,1101773	0,16812756	FALSE	29,2%
3824	3	1202,124012	Empty	604,658713	418,191081	135,1013919	0,11238557	FALSE	456,3645045	0,172228279	455,3645045	406,8265359	146,4659371	0,121839291	FALSE	33,8%	351,1822957	202,1101773	0,16812756	FALSE	29,2%
3825	1	1540,907734	Empty	766,8823354	519,8331097	185,3434705	0,120282004	FALSE	535,5530252	0,15029764	535,5530252	475,3010504	240,672833	0,156188997	FALSE	30,8%	619,5402231	257,0964472	0,166847399	FALSE	40,2%
3825	2	1540,907734	Empty	784,9936578	541,8555124	185,3434705	0,120282004	FALSE	562,4865082	0,15029764	562,4865082	486,5261499	240,672833	0,156188997	FALSE	31,6%	571,8832828	257,0964472	0,166847399	FALSE	37,1%
3825	3	1540,907734	Empty	780,339165	479,2191123	185,3434705	0,120282004	FALSE	441,868201	0,15029764	441,868201	579,0805341	240,672833	0,156188997	FALSE	37,6%	349,4842284	257,0964472	0,166847399	FALSE	22,7%
3826	1	1198,624868	Empty	594,5862583	396,998	185,6677515	0,154900634	FALSE	387,0330585	0,081866767	387,0330585	401,0788607	198,2836784	0,165425968	FALSE	33,5%	412,430062	250,2827802	0,208808266	FALSE	34,4%
3826	2	1198,624868	Empty	554,7541834	386,8260146	185,6677515	0,154900634	FALSE	406,5211626	0,081866767	406,5211626	374,2100877	198,2836784	0,165425968	FALSE	31,2%	322,2109859	250,2827802	0,208808266	FALSE	26,9%
3826	3	1198,624868	Empty	612,1543761	414,8008529	185,6677515	0,154900634	FALSE	405,0706465	0,081866767	405,0706465	423,3359192	198,2836784	0,165425968	FALSE	35,3%	463,9838197	250,2827802	0,208808266	FALSE	38,7%
3827	1	1089,958426	Empty	516,3487933	358,6387305	155,3100741	0,142491741	FALSE	359,9483526	0,016612115	359,9483526	357,7688667	156,1799379	0,143289812	FALSE	32,8%	371,3045187	262,3089278	0,240659572	FALSE	34,1%
3827	2	1089,958426	Empty	504,5647813	345,881348	155,3100741	0,142491741	FALSE	346,2175997	0,016612115	346,2175997	349,6093951	156,1799379	0,143289812	FALSE	32,1%	443,1699094	262,3089278	0,240659572	FALSE	40,7%
3827	3	1089,958426	Empty	546,1039061	385,4383473	155,3100741	0,142491741	FALSE	383,7924735	0,016612115	383,7924735	382,585624	156,1799379	0,143289812	FALSE	35,1%	275,4839977	262,3089278	0,240659572	FALSE	25,3%
3828	1	1403,729294	Empty	707,2079144	434,6557165	190,2848676	0,135556669	FALSE	388,5749251	0,209167298	388,5749251	464,5930517	201,1774042	0,143316382	FALSE	33,1%	386,7417443	214,3368304	0,152691001	FALSE	27,6%
3828	2	1403,729294	Empty	698,530146	486,661029	190,2848676	0,135556669	FALSE	501,2633185	0,209167298	501,2633185	458,89228	201,1774042	0,143316382	FALSE	32,7%	558,626964	214,3368304	0,152691001	FALSE	39,8%
3828	3	1403,729294	Empty	677,405453	482,4125485	190,2848676	0,135556669	FALSE	513,8910505	0,209167298	513,8910505	480,2439624	201,1774042	0,143316382	FALSE	34,2%	458,3605858	214,3368304	0,152691001	FALSE	32,7%
3829	1	840,0887518	Non-Empty	572,92946	273,2848663	0	0	TRUE	268,8694595	0	278,8957012	266,7960151	0	0	TRUE	31,8%	226,540787	0	0	TRUE	27,0%
3829	2	840,0887518	Non-Empty	594,3343912	298,0913216	0	0	TRUE	297,077439	0	289,3153842	276,7636477	0	0	TRUE	32,9%	254,8583854	0	0	TRUE	30,3%
3829	3	840,0887518																			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3845	1	750,563371	Non-Empty	603,33261	234,2429981	0	0	TRUE	234,1994606	0	243,7632389	238,2198287	0	0	TRUE	31,7%	250,1877903	0	0	TRUE	33,3%
3845	2	750,563371	Non-Empty	637,8733421	271,8170576	0	0	TRUE	274,8068476	0	257,7186602	251,8578903	0	0	TRUE	33,6%	294,8641815	0	0	TRUE	39,3%
3845	3	750,563371	Non-Empty	616,4956422	244,5033153	0	0	TRUE	241,5570628	0	249,0814719	260,485652	0	0	TRUE	34,7%	205,5113992	0	0	TRUE	27,4%
3846	1	1089,307058	Non-Empty	716,0172122	323,6142892	0	0	TRUE	321,9430761	0	344,8869548	355,656416	0	0	TRUE	32,6%	330,463939	8,806402967	0,008084408	FALSE	30,3%
3846	2	1089,307058	Non-Empty	714,729323	333,9522477	0	0	TRUE	343,906813	0	344,2666453	355,0167367	0	0	TRUE	32,6%	440,6185853	8,806402967	0,008084408	FALSE	40,4%
3846	3	1089,307058	Non-Empty	830,7555834	431,7405212	0	0	TRUE	423,4571689	0	400,1534579	378,6339053	0	0	TRUE	34,8%	318,2245338	8,806402967	0,008084408	FALSE	29,2%
3847	1	1630,364142	Empty	850,8475052	546,667304	213,5691186	0,130994735	FALSE	545,6055975	0,004058949	545,6055975	539,405046	220,7939658	0,135426167	FALSE	33,1%	644,9792209	269,459147	0,165275438	FALSE	39,6%
3847	2	1630,364142	Empty	843,6880444	542,0910666	213,5691186	0,130994735	FALSE	543,6125834	0,004058949	543,6125834	534,8662194	220,7939658	0,135426167	FALSE	32,8%	501,6505052	269,459147	0,165275438	FALSE	30,8%
3847	3	1630,364142	Empty	845,1840761	541,6057712	213,5691186	0,130994735	FALSE	541,1459609	0,004058949	541,1459609	556,0928764	220,7939658	0,135426167	FALSE	34,1%	483,7344157	269,459147	0,165275438	FALSE	29,7%
3848	1	999,334566	Non-Empty	634,9978643	235,906908	0	0	TRUE	217,5763578	0	296,3067978	283,045154	0	0	TRUE	28,3%	310,4728749	0	0	TRUE	31,1%
3848	2	999,334566	Non-Empty	797,9133084	426,603879	0	0	TRUE	436,0548557	0	372,3274528	355,6633935	0	0	TRUE	35,6%	368,6865389	0	0	TRUE	36,9%
3848	3	999,334566	Non-Empty	708,7046113	336,8237789	0	0	TRUE	345,7033525	0	330,7003154	360,6260185	0	0	TRUE	36,1%	320,1751522	0	0	TRUE	32,0%
3849	1	1132,739811	Non-Empty	718,6751828	383,7190011	0	0	TRUE	392,8153451	0	376,0325987	354,4183111	0	0	TRUE	31,3%	389,37931	0	0	TRUE	34,4%
3849	2	1132,739811	Non-Empty	751,8777774	376,1324137	0	0	TRUE	344,4395757	0	393,4052007	370,792339	0	0	TRUE	32,7%	353,9811909	0	0	TRUE	31,3%
3849	3	1132,739811	Non-Empty	694,3444274	372,8883959	0	0	TRUE	395,4848901	0	363,3020114	407,5291607	0	0	TRUE	36,0%	389,37931	0	0	TRUE	34,4%
3850	1	914,4472066	Non-Empty	764,2818161	309,2655888	0	0	TRUE	294,5788	0	312,6439411	299,9120971	0	0	TRUE	32,8%	265,8276763	0	0	TRUE	29,1%
3850	2	914,4472066	Non-Empty	757,1542561	316,2369653	0	0	TRUE	315,649113	0	309,7282778	297,1151688	0	0	TRUE	32,5%	329,6263187	0	0	TRUE	36,0%
3850	3	914,4472066	Non-Empty	713,9994499	288,9446525	0	0	TRUE	304,2192936	0	292,0749876	317,4199407	0	0	TRUE	34,7%	318,9932116	0	0	TRUE	34,9%
3851	1	1151,279615	Empty	539,8980484	373,9675163	141,2247242	0,122667615	FALSE	371,9900453	0,025346022	371,9900453	353,7259762	159,7750753	0,138780426	FALSE	30,7%	428,3831126	189,5249477	0,164621127	FALSE	37,2%
3851	2	1151,279615	Empty	576,6596659	407,9173943	141,2247242	0,122667615	FALSE	403,1281838	0,025346022	403,1281838	377,8111513	159,7750753	0,138780426	FALSE	32,8%	348,061279	189,5249477	0,164621127	FALSE	30,2%
3851	3	1151,279615	Empty	526,5810842	369,3947045	141,2247242	0,122667615	FALSE	376,1613858	0,025346022	376,1613858	419,7424875	159,7750753	0,138780426	FALSE	36,5%	374,8352235	189,5249477	0,164621127	FALSE	32,6%
3852	1	960,3671868	Non-Empty	640,5774341	321,6767975	0	0	TRUE	303,6012578	0	330,2423881	319,2095254	0	0	TRUE	33,2%	357,34593	0	0	TRUE	37,2%
3852	2	960,3671868	Non-Empty	603,7380527	318,6690267	0	0	TRUE	334,4250976	0	311,2502653	300,8518986	0	0	TRUE	31,3%	290,3435681	0	0	TRUE	30,2%
3852	3	960,3671868	Non-Empty	618,5269905	320,0213626	0	0	TRUE	322,3408315	0	318,8745334	340,3057628	0	0	TRUE	35,4%	312,6776887	0	0	TRUE	32,6%
3853	1	979,7027788	Non-Empty	666,2282184	306,4960966	0	0	TRUE	324,5578018	0	308,8876527	307,3303953	0	0	TRUE	31,4%	343,400974	0	0	TRUE	35,1%
3853	2	979,7027788	Non-Empty	685,4663922	315,2652194	0	0	TRUE	322,8578735	0	317,8071703	316,2049452	0	0	TRUE	32,3%	313,1008881	0	0	TRUE	32,0%
3853	3	979,7027788	Non-Empty	761,389649	357,9414628	0	0	TRUE	332,2871035	0	353,0079558	356,1674383	0	0	TRUE	36,4%	323,2009167	0	0	TRUE	33,0%
3854	1	1158,854599	Empty	549,1678389	342,7897789	128,1767327	0,110606398	FALSE	370,1273457	0,074840884	370,1273457	344,4063246	126,560187	0,109211446	FALSE	29,7%	449,9082562	159,3029297	0,137465848	FALSE	38,8%
3854	2	1158,854599	Empty	643,7080956	397,8311185	128,1767327	0,110606398	FALSE	385,6697683	0,074840884	385,6697683	403,6960398	126,560187	0,109211446	FALSE	34,8%	327,2060045	159,3029297	0,137465848	FALSE	28,2%
3854	3	1158,854599	Empty	667,1255452	418,237022	128,1767327	0,110606398	FALSE	403,0574855	0,074840884	403,0574855	410,751766	126,560187	0,109211446	FALSE	35,4%	381,7403386	159,3029297	0,137465848	FALSE	32,9%
3855	1	1635,466807	Empty	889,2333395	555,4613859	193,169208	0,118112582	FALSE	537,2145837	0,070694443	537,2145837	544,2113305	179,6304054	0,109834333	FALSE	33,3%	558,4520805	244,8228035	0,149695978	FALSE	34,1%
3855	2	1635,466807	Empty	871,1246667	549,6786141	193,169208	0,118112582	FALSE	543,7577128	0,070694443	543,7577128	533,128812	179,6304054	0,109834333	FALSE	32,6%	598,3415149	244,8228035	0,149695978	FALSE	36,6%
3855	3	1635,466807	Empty	821,6842552	530,3268073	193,169208	0,118112582	FALSE	554,4945108	0,070694443	554,4945108	558,1266648	179,6304054	0,109834333	FALSE	34,1%	478,6732119	244,8228035	0,149695978	FALSE	29,3%
3856	1	1100,1565	Non-Empty	784,4515569	301,0241514	0	0	TRUE	267,792224	0	352,1460644	336,9189791	0	0	TRUE	30,6%	277,7094077	0	0	TRUE	25,2%
3856	2	1100,1565	Non-Empty	861,3211618	427,0123575	0	0	TRUE	442,8990312	0	386,6533946	369,934184	0	0	TRUE	33,6%	416,5641116	0	0	TRUE	37,9%
3856	3	1100,1565	Non-Empty	804,9702151	372,1199909	0	0	TRUE	389,4652447	0	361,3570408	393,3033367	0	0	TRUE	35,7%	405,8829805	0	0	TRUE	36,9%
3857	1	956,9030883	Non-Empty	657,9286016	352,8993714	0	0	TRUE	349,82103	0	337,9798501	325,9158257	0	0	TRUE	34,1%	378,5550679	42,85411617	0,044784176	FALSE	39,6%
3857	2	956,9030883	Non-Empty	603,0652739	296,6997148	0	0	TRUE	292,2850444	0	309,796398	298,738368	0	0	TRUE	31,2%	220,8237896	42,85411617	0,044784176	FALSE	23,1%
3857	3	956,9030883	Non-Empty	601,761879	307,3040021	0	0	TRUE	314,7970138	0	309,1268402	332,2488947	0	0	TRUE	34,7%	357,5242308	42,85411617	0,044784176	FALSE	37,4%
3858	1	893,044375	Non-Empty	553,8673137	244,4119946	0	0	TRUE	270,5484663	0	260,355273	248,299246	0	0	TRUE	27,8%	259,2709476	0	0	TRUE	29,0%
3858	2	893,044375	Non-Empty	713,0029176	356,6878395	0	0	TRUE	335,9645521	0	335,1598203	319,6398893	0	0	TRUE	35,8%	336,0919691	0	0	TRUE	37,6%
3858	3	893,044375	Non-Empty	632,9495158	291,9445409	0	0	TRUE	286,5313566	0	297,5292817	325,1052398	0	0	TRUE	36,4%	297,6814583	0	0	TRUE	33,3%
3859	1	975,6982527	Non-Empty	658,7056078	298,8092329	0	0	TRUE	295,858714	0	314,0418575	299,0137091	0	0	TRUE	30,6%	345,0640162	0	0	TRUE	35,4%
3859	2	975,6982527	Non-Empty	740,9459995	369,7737344	0	0	TRUE	355,5473255	0	353,2504585	336,346023	0	0	TRUE	34,5%	333,165257	0	0	TRUE	34,1%
3859	3	975,6982527	Non-Empty	646,8842136	307,1152854	0	0	TRUE	324,2922133	0	308,4059367	340,3385207	0	0	TRUE	34,9%	297,4689795	0	0	TRUE	30,5%
3860	1	717,0647751	Non-Empty	440,6025639	212,5953389	0	0	TRUE	212,0850361	0	225,7435086	221,8000953	0	0	TRUE	30,9%	241,3881421	0	0	TRUE	33,7%
3860	2	717,0647751	Non-Empty	454,6195801	244,9990352	0	0	TRUE	262,8754125	0	232,9251518	228,8562856	0	0	TRUE	31,9%	241,3881421	0	0	TRUE	33,7%
3860	3	717,0647751	Non-Empty	504,3333976	259,470401	0	0	TRUE	242,1043266	0	258,3961148	266,4083942	0	0	TRUE	37,2%	234,2884909	0	0	TRUE	32,7%
3861	1	1287,550914	Empty	679,1079963	460,3356344	136,3323632	0,105885027	FALSE	484,6569773	0,298333984	484,6569773	426,5017402	157,4579565	0,122292606	FALSE	33,1%	403,9375418	177,7296907	0,13803702	FALSE	31,4%
3861	2	1287,550914	Empty	676,8804166	370,1432608	136,3323632	0,105885027	FALSE	306,4998098	0,298333984	306,4998098	425,1027482	157,4579565	0,122292606	FALSE	33,0%	391,3144936	177,7296907	0,13803702	FALSE	30,4%
3861	3	1287,550914	Empty	660,8436162	457,0720193	136,3323632	0,105885027	FALSE	496,3941273	0,298333984	496,3941273	435,946426	157,4579565	0,122292606	FALSE	33,9%	492,2988791	177,7296907	0,13803		

Instance	Player	Total Cost	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3876	1	763,3975646	Empty	402,2892124	252,9483301	79,54572575	0,104199606	FALSE	247,8950016	0,142314757	247,8950016	248,3316456	76,27145514	0,09991053	FALSE	32,5%	285,1243916	145,3877939	0,190448333	FALSE	37,3%
3876	2	763,3975646	Empty	409,5290958	251,458385	79,54572575	0,104199606	FALSE	237,6752279	0,142314757	237,6752279	252,8007989	76,27145514	0,09991053	FALSE	33,1%	285,1243916	145,3877939	0,190448333	FALSE	37,3%
3876	3	763,3975646	Empty	384,4419178	258,9908495	79,54572575	0,104199606	FALSE	277,8273351	0,142314757	277,8273351	262,2651202	76,27145514	0,09991053	FALSE	34,4%	193,1487814	145,3877939	0,190448333	FALSE	25,3%
3877	1	1331,632794	Empty	707,3970394	478,2308308	180,7609467	0,135743838	FALSE	479,8196882	0,033121711	479,8196882	445,7043782	213,2873993	0,160169831	FALSE	33,5%	355,1020783	303,8896992	0,228208332	FALSE	26,7%
3877	2	1331,632794	Empty	670,4477376	437,3466616	180,7609467	0,135743838	FALSE	435,0006517	0,033121711	435,0006517	422,4240071	213,2873993	0,160169831	FALSE	31,7%	532,6531174	303,8896992	0,228208332	FALSE	40,0%
3877	3	1331,632794	Empty	646,0532146	416,0553012	180,7609467	0,135743838	FALSE	416,8124537	0,033121711	416,8124537	463,5044082	213,2873993	0,160169831	FALSE	34,8%	443,8775978	303,8896992	0,228208332	FALSE	33,3%
3878	1	1081,031122	Non-Empty	735,1076586	326,5934118	0	0	TRUE	332,9011103	0	341,7223377	343,3489069	0	0	TRUE	31,8%	330,9278945	0	0	TRUE	30,6%
3878	2	1081,031122	Non-Empty	772,3819175	362,6169456	0	0	TRUE	367,6739191	0	359,0496595	360,7587052	0	0	TRUE	33,4%	341,9588243	0	0	TRUE	31,6%
3878	3	1081,031122	Non-Empty	818,0073822	391,8207647	0	0	TRUE	380,4560927	0	380,2591249	376,92351	0	0	TRUE	34,9%	408,1444032	0	0	TRUE	37,8%
3879	1	1092,804055	Empty	533,1231971	322,8270277	100,3483664	0,091826495	FALSE	325,5318448	0,032795508	325,5318448	340,7727142	109,4740242	0,100177176	FALSE	31,2%	360,5126778	121,1414989	0,110853815	FALSE	33,0%
3879	2	1092,804055	Empty	576,6344965	367,3224662	100,3483664	0,091826495	FALSE	371,0114223	0,032795508	371,0114223	368,5851667	109,4740242	0,100177176	FALSE	33,7%	360,5126778	121,1414989	0,110853815	FALSE	33,0%
3879	3	1092,804055	Empty	622,0493203	402,6545607	100,3483664	0,091826495	FALSE	396,2607875	0,032795508	396,2607875	383,4461737	109,4740242	0,100177176	FALSE	35,1%	371,778699	121,1414989	0,110853815	FALSE	34,0%
3880	1	1020,394892	Non-Empty	755,0209946	363,7767965	0	0	TRUE	372,3535417	0	347,0580833	330,1949065	0	0	TRUE	32,4%	303,9474145	0	0	TRUE	29,8%
3880	2	1020,394892	Non-Empty	750,5404471	345,0711615	0	0	TRUE	339,4228191	0	344,9985243	328,2354193	0	0	TRUE	32,2%	314,8026793	0	0	TRUE	30,9%
3880	3	1020,394892	Non-Empty	714,2962797	311,5469336	0	0	TRUE	308,6185308	0	328,338284	361,9645659	0	0	TRUE	35,5%	401,6447978	0	0	TRUE	39,4%
3881	1	1163,138287	Empty	581,2527799	378,2657893	173,0918893	0,14881454	FALSE	367,3965768	0,089671198	367,3965768	386,7933544	185,2392222	0,159258125	FALSE	33,3%	379,5503884	161,899	0,139191532	FALSE	32,6%
3881	2	1163,138287	Empty	553,6929493	380,60106	173,0918893	0,14881454	FALSE	399,6269487	0,089671198	399,6269487	368,4537272	185,2392222	0,159258125	FALSE	31,7%	391,7939494	161,899	0,139191532	FALSE	33,7%
3881	3	1163,138287	Empty	604,5458922	404,2714379	173,0918893	0,14881454	FALSE	396,1147616	0,089671198	396,1147616	407,8912056	185,2392222	0,159258125	FALSE	35,1%	391,7939494	161,899	0,139191532	FALSE	33,7%
3882	1	944,1084454	Empty	432,44128	297,7823166	94,45124382	0,100042791	FALSE	303,4966316	0,018810977	303,4966316	294,8497406	97,38381985	0,103148976	FALSE	31,2%	279,7358357	112,4977247	0,11915763	FALSE	29,6%
3882	2	944,1084454	Empty	438,188187	298,5510479	94,45124382	0,100042791	FALSE	299,2871871	0,018810977	299,2871871	298,7681316	97,38381985	0,103148976	FALSE	31,6%	314,7028151	112,4977247	0,11915763	FALSE	33,3%
3882	3	944,1084454	Empty	494,5988134	347,7750809	94,45124382	0,100042791	FALSE	341,3246267	0,018810977	341,3246267	350,4905732	97,38381985	0,103148976	FALSE	37,1%	349,6697946	112,4977247	0,11915763	FALSE	37,0%
3883	1	1020,105581	Empty	482,4883169	306,4754472	131,5561354	0,128963254	FALSE	284,0076374	0,203815032	284,0076374	307,0123595	191,9908944	0,188206886	FALSE	30,1%	366,7795347	218,42752	0,214122464	FALSE	36,0%
3883	2	1020,105581	Empty	527,8977524	396,3416171	131,5561354	0,128963254	FALSE	418,3305415	0,203815032	418,3305415	335,906858	191,9908944	0,188206886	FALSE	32,9%	309,4702324	218,42752	0,214122464	FALSE	30,3%
3883	3	1020,105581	Empty	470,3546909	317,2885165	131,5561354	0,128963254	FALSE	317,7674019	0,203815032	317,7674019	377,1863632	191,9908944	0,188206886	FALSE	37,0%	343,8558138	218,42752	0,214122464	FALSE	33,7%
3884	1	1336,614198	Empty	673,8804648	441,453822	204,4671821	0,152973971	FALSE	429,7803507	0,059090884	429,7803507	457,4853681	204,7258273	0,153167479	FALSE	34,2%	450,380871	255,6268662	0,191249552	FALSE	33,7%
3884	2	1336,614198	Empty	620,7737413	416,3065591	204,4671821	0,152973971	FALSE	432,5925484	0,059090884	432,5925484	421,4321655	204,7258273	0,153167479	FALSE	31,5%	479,4377014	255,6268662	0,191249552	FALSE	35,9%
3884	3	1336,614198	Empty	704,2195062	478,8538168	204,4671821	0,152973971	FALSE	474,2412988	0,059090884	474,2412988	457,6966643	204,7258273	0,153167479	FALSE	34,2%	406,7956254	255,6268662	0,191249552	FALSE	30,4%
3885	1	911,9822928	Non-Empty	544,2020688	190,4768357	0	0	TRUE	137,0747257	0	273,7539344	278,2837446	0	0	TRUE	30,5%	208,1698712	0	0	TRUE	22,8%
3885	2	911,9822928	Non-Empty	600,1390234	334,9480622	0	0	TRUE	370,0802242	0	301,8923085	306,8877248	0	0	TRUE	33,7%	317,2112323	0	0	TRUE	34,8%
3885	3	911,9822928	Non-Empty	668,61057	386,5573949	0	0	TRUE	404,8273429	0	336,3360499	326,8108234	0	0	TRUE	35,8%	386,6011893	0	0	TRUE	42,4%
3886	1	739,3223341	Non-Empty	522,3814104	202,5095982	0	0	TRUE	236,2982393	0	214,5239411	218,335068	0	0	TRUE	29,5%	262,6539871	0	0	TRUE	35,5%
3886	2	739,3223341	Non-Empty	611,5710069	244,0964976	0	0	TRUE	230,2824416	0	251,1510174	255,6128429	0	0	TRUE	34,6%	233,4702108	0	0	TRUE	31,6%
3886	3	739,3223341	Non-Empty	666,3512766	292,7162382	0	0	TRUE	272,7416532	0	273,6473756	265,3744232	0	0	TRUE	35,9%	243,1981362	0	0	TRUE	32,9%
3887	1	885,4665602	Non-Empty	593,7493646	323,0455404	0	0	TRUE	334,1390751	0	303,748207	292,8625641	0	0	TRUE	33,1%	304,6766659	0	0	TRUE	34,4%
3887	2	885,4665602	Non-Empty	559,0338047	268,0110331	0	0	TRUE	258,7856204	0	285,9885432	275,7393663	0	0	TRUE	31,1%	228,5074994	0	0	TRUE	25,8%
3887	3	885,4665602	Non-Empty	578,0754675	294,4099866	0	0	TRUE	292,5418647	0	295,72981	316,8646298	0	0	TRUE	35,8%	352,2823949	0	0	TRUE	39,8%
3888	1	950,54809	Non-Empty	659,8791553	307,2864556	0	0	TRUE	305,6170297	0	313,1040097	316,1834754	0	0	TRUE	33,3%	286,4665477	0	0	TRUE	30,1%
3888	2	950,54809	Non-Empty	653,4040549	305,5469435	0	0	TRUE	308,6131058	0	310,0316594	313,0809077	0	0	TRUE	32,9%	351,5725812	0	0	TRUE	37,0%
3888	3	950,54809	Non-Empty	690,034701	337,7146909	0	0	TRUE	336,3179545	0	327,4124209	321,283707	0	0	TRUE	33,8%	312,5089611	0	0	TRUE	32,9%
3889	1	982,7291903	Empty	551,0928124	363,3858685	107,5830759	0,109473777	FALSE	351,3057701	0,044761044	351,3057701	333,3363408	134,6609485	0,137027525	FALSE	33,9%	307,8428789	141,1123149	0,14359227	FALSE	31,3%
3889	2	982,7291903	Empty	487,8603516	322,1671584	107,5830759	0,109473777	FALSE	332,1008106	0,044761044	332,1008106	295,0892858	134,6609485	0,137027525	FALSE	30,0%	355,2033218	141,1123149	0,14359227	FALSE	36,1%
3889	3	982,7291903	Empty	470,6565627	297,1761634	107,5830759	0,109473777	FALSE	299,3226095	0,044761044	299,3226095	354,3035637	134,6609485	0,137027525	FALSE	36,1%	319,6829896	141,1123149	0,14359227	FALSE	32,5%
3890	1	820,8429522	Non-Empty	540,4696928	294,949349	0	0	TRUE	290,2454768	0	287,4638323	274,4984451	0	0	TRUE	33,4%	306,7796892	0	0	TRUE	37,4%
3890	2	820,8429522	Non-Empty	496,1889852	251,7361378	0	0	TRUE	248,0997619	0	263,9119069	252,0087745	0	0	TRUE	30,7%	240,4489456	0	0	TRUE	29,3%
3890	3	820,8429522	Non-Empty	506,6336889	274,1574654	0	0	TRUE	282,4977135	0	269,467213	294,3357327	0	0	TRUE	35,9%	273,6143174	0	0	TRUE	33,3%
3891	1	1007,10156	Non-Empty	736,9901053	359,0447088	0	0	TRUE	372,0067372	0	340,4971875	309,8116546	0	0	TRUE	30,8%	344,5347444	0	0	TRUE	34,2%
3891	2	1007,10156	Non-Empty	706,364453	307,6602719	0	0	TRUE	299,8635156	0	326,3478138	296,9374194	0	0	TRUE	29,5%	344,5347444	0	0	TRUE	34,2%
3891	3	1007,10156	Non-Empty	736,4692766	340,3965797	0	0	TRUE	335,2313076	0	340,2565592	400,3524864	0	0	TRUE	39,8%	318,0320717	0	0	TRUE	31,6%
3892	1	1344,217904	Empty	618,4363081	399,9241645	181,8203522	0,13526107	FALSE	382,3716305	0,122881415	382,3716305										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3907	1	1577,912705	Empty	745,90652	507,7990424	215,2607098	0,136421178	FALSE	524,0828851	0,061066915	524,0828851	487,7508982	235,308854	0,149126662	FALSE	30,9%	438,3090847	284,7506676	0,180460343	FALSE	27,8%
3907	2	1577,912705	Empty	799,0058845	543,8313431	215,2607098	0,136421178	FALSE	543,0481218	0,061066915	543,0481218	522,4727596	235,308854	0,149126662	FALSE	33,1%	543,503265	284,7506676	0,180460343	FALSE	34,4%
3907	3	1577,912705	Empty	796,174261	526,2823194	215,2607098	0,136421178	FALSE	510,7816979	0,061066915	510,7816979	567,6890471	235,308854	0,149126662	FALSE	36,0%	596,1003552	284,7506676	0,180460343	FALSE	37,8%
3908	1	1233,103817	Empty	658,3918928	467,8291682	149,897204	0,121560895	FALSE	472,5854547	0,080297426	472,5854547	427,9761489	184,5444574	0,149658492	FALSE	34,7%	435,2131119	177,3074944	0,143789592	FALSE	35,3%
3908	2	1233,103817	Empty	540,6702819	355,3133234	149,897204	0,121560895	FALSE	365,2753758	0,080297426	365,2753758	351,4532721	184,5444574	0,149658492	FALSE	28,5%	435,2131119	177,3074944	0,143789592	FALSE	35,3%
3908	3	1233,103817	Empty	619,9986754	409,9613254	149,897204	0,121560895	FALSE	395,2429864	0,080297426	395,2429864	453,674396	184,5444574	0,149658492	FALSE	36,8%	362,6775932	177,3074944	0,143789592	FALSE	29,4%
3909	1	770,8038193	Non-Empty	473,3360828	227,4626684	0	0	TRUE	226,9780767	0	242,1077997	237,6042159	0	0	TRUE	30,8%	270,2818587	11,74424612	0,015236362	FALSE	35,1%
3909	2	770,8038193	Non-Empty	503,3467424	271,6448248	0	0	TRUE	285,3317298	0	257,4580234	252,6689015	0	0	TRUE	32,8%	300,3131763	11,74424612	0,015236362	FALSE	39,0%
3909	3	770,8038193	Non-Empty	530,287462	271,696326	0	0	TRUE	258,4940127	0	271,2379962	280,5307019	0	0	TRUE	36,4%	200,2087842	11,74424612	0,015236362	FALSE	26,0%
3910	1	823,4974392	Non-Empty	606,117957	247,542674	0	0	TRUE	259,5779794	0	257,9078455	246,1412125	0	0	TRUE	29,9%	239,752419	0	0	TRUE	29,1%
3910	2	823,4974392	Non-Empty	682,7379167	311,6449231	0	0	TRUE	311,1625178	0	290,5102268	277,2561623	0	0	TRUE	33,7%	271,0244737	0	0	TRUE	32,9%
3910	3	823,4974392	Non-Empty	646,4733303	264,309842	0	0	TRUE	252,756942	0	275,0793668	300,1000643	0	0	TRUE	36,4%	312,7205465	0	0	TRUE	38,0%
3911	1	1078,084722	Non-Empty	717,9844706	314,0416421	0	0	TRUE	309,6253179	0	339,9922029	356,2482039	0	0	TRUE	33,0%	247,8355683	0	0	TRUE	23,0%
3911	2	1078,084722	Non-Empty	712,8411271	322,462447	0	0	TRUE	331,6102712	0	337,5566395	353,6961892	0	0	TRUE	32,8%	371,7533525	0	0	TRUE	34,5%
3911	3	1078,084722	Non-Empty	845,8386377	441,5806332	0	0	TRUE	436,8491331	0	400,5358799	368,1403292	0	0	TRUE	34,1%	458,4958014	0	0	TRUE	42,5%
3912	1	1448,116412	Empty	674,9712345	484,4082681	213,9756439	0,147761355	FALSE	516,4676977	0,118842618	516,4676977	437,6280782	260,7558338	0,180065519	FALSE	30,2%	520,6710696	226,1055332	0,156137677	FALSE	36,0%
3912	2	1448,116412	Empty	743,2798426	500,6712846	213,9756439	0,147761355	FALSE	480,6851226	0,118842618	480,6851226	481,9170247	260,7558338	0,180065519	FALSE	33,3%	520,6710696	226,1055332	0,156137677	FALSE	36,0%
3912	3	1448,116412	Empty	697,7325232	463,0368595	213,9756439	0,147761355	FALSE	450,9635919	0,118842618	450,9635919	528,5713093	260,7558338	0,180065519	FALSE	36,5%	406,7742731	226,1055332	0,156137677	FALSE	28,1%
3913	1	924,5936489	Non-Empty	527,0288885	270,0022975	0	0	TRUE	271,3182388	0	286,7036195	288,035777	0	0	TRUE	31,2%	308,197883	52,40623024	0,056680284	FALSE	33,3%
3913	2	924,5936489	Non-Empty	551,0327847	298,8402337	0	0	TRUE	304,9902151	0	299,7617347	301,1545662	0	0	TRUE	32,6%	357,9072189	52,40623024	0,056680284	FALSE	38,7%
3913	3	924,5936489	Non-Empty	621,5595727	355,7511177	0	0	TRUE	348,285195	0	338,1282946	335,4033056	0	0	TRUE	36,3%	258,488547	52,40623024	0,056680284	FALSE	28,0%
3914	1	804,9307087	Non-Empty	717,0911134	306,9636299	0	0	TRUE	289,6353907	0	291,0302933	284,9730459	0	0	TRUE	35,4%	285,620574	0	0	TRUE	35,5%
3914	2	804,9307087	Non-Empty	588,4740124	220,4723325	0	0	TRUE	245,269897	0	238,8312464	233,8604239	0	0	TRUE	29,1%	294,2757429	0	0	TRUE	36,6%
3914	3	804,9307087	Non-Empty	677,7633158	277,4947462	0	0	TRUE	270,0254209	0	275,0691689	286,0972388	0	0	TRUE	35,5%	225,0343917	0	0	TRUE	28,0%
3915	1	996,794548	Non-Empty	713,5424403	329,5843606	0	0	TRUE	332,1922489	0	329,8204052	328,2916401	0	0	TRUE	32,9%	410,4448139	8,853649006	0,00888212	FALSE	41,2%
3915	2	996,794548	Non-Empty	711,3182014	318,0889057	0	0	TRUE	311,4255779	0	328,7922962	327,2682965	0	0	TRUE	32,8%	340,0828458	8,853649006	0,00888212	FALSE	34,1%
3915	3	996,794548	Non-Empty	731,6318101	349,1212816	0	0	TRUE	353,1767211	0	338,1818466	341,2346114	0	0	TRUE	34,2%	246,2668883	8,853649006	0,00888212	FALSE	24,7%
3916	1	859,5724109	Non-Empty	559,2937343	260,8718137	0	0	TRUE	242,5971907	0	282,7937757	272,6701235	0	0	TRUE	31,7%	293,2658814	0	0	TRUE	34,1%
3916	2	859,5724109	Non-Empty	544,7721775	298,2071292	0	0	TRUE	331,7893784	0	275,4512906	265,5904899	0	0	TRUE	30,9%	323,6037312	0	0	TRUE	37,6%
3916	3	859,5724109	Non-Empty	595,9483918	300,493468	0	0	TRUE	285,1858418	0	301,3273446	321,3117975	0	0	TRUE	37,4%	242,7027984	0	0	TRUE	28,2%
3917	1	1386,376576	Empty	738,3489045	510,5475125	187,0981261	0,134954766	FALSE	506,3496548	0,04988583	506,3496548	466,9162611	217,3753575	0,156793876	FALSE	37,7%	477,5297095	206,539937	0,148978236	FALSE	34,4%
3917	2	1386,376576	Empty	665,0941008	450,868701	187,0981261	0,134954766	FALSE	460,2468355	0,04988583	460,2468355	420,5914697	217,3753575	0,156793876	FALSE	30,3%	508,3380778	206,539937	0,148978236	FALSE	36,7%
3917	3	1386,376576	Empty	653,7441733	424,9603623	187,0981261	0,134954766	FALSE	419,7800855	0,04988583	419,7800855	498,8688451	217,3753575	0,156793876	FALSE	36,0%	400,5087886	206,539937	0,148978236	FALSE	28,9%
3918	1	967,9600999	Non-Empty	624,5598822	285,8814736	0	0	TRUE	310,463985	0	293,7923186	295,5803629	0	0	TRUE	30,5%	339,4145805	0	0	TRUE	35,1%
3918	2	967,9600999	Non-Empty	688,9670004	315,2023621	0	0	TRUE	304,6986439	0	324,08936	326,0617945	0	0	TRUE	33,7%	314,2727597	0	0	TRUE	32,5%
3918	3	967,9600999	Non-Empty	744,2159776	366,8762642	0	0	TRUE	352,797471	0	350,0784213	346,3179425	0	0	TRUE	35,8%	314,2727597	0	0	TRUE	32,5%
3919	1	1442,758742	Empty	738,208312	535,1607799	203,0475322	0,14073561	FALSE	558,2948232	0,122235409	558,2948232	470,8786777	267,3296343	0,185290601	FALSE	32,6%	491,849571	246,358741	0,170755327	FALSE	34,1%
3919	2	1442,758742	Empty	700,8724943	459,53892	203,0475322	0,14073561	FALSE	444,3869212	0,122235409	444,3869212	447,0633938	267,3296343	0,185290601	FALSE	31,0%	491,849571	246,358741	0,170755327	FALSE	34,1%
3919	3	1442,758742	Empty	682,2226619	448,0590418	203,0475322	0,14073561	FALSE	440,0769973	0,122235409	440,0769973	524,8166702	267,3296343	0,185290601	FALSE	36,4%	459,0595996	246,358741	0,170755327	FALSE	31,8%
3920	1	979,0224259	Non-Empty	737,52687	383,8419712	0	0	TRUE	415,2432941	0	338,3131437	326,4666804	0	0	TRUE	33,3%	320,0650238	0	0	TRUE	32,7%
3920	2	979,0224259	Non-Empty	709,7983316	260,1455198	0	0	TRUE	195,5789296	0	325,5937034	314,1926275	0	0	TRUE	32,1%	310,6513467	0	0	TRUE	31,7%
3920	3	979,0224259	Non-Empty	686,9558892	335,0349349	0	0	TRUE	368,2002022	0	315,1155787	338,363118	0	0	TRUE	34,6%	348,3060554	0	0	TRUE	35,6%
3921	1	1005,615518	Non-Empty	826,2220694	359,7681314	0	0	TRUE	342,1775799	0	353,2266511	333,1804277	0	0	TRUE	33,1%	313,4386029	0	0	TRUE	31,2%
3921	2	1005,615518	Non-Empty	823,6910001	353,4491677	0	0	TRUE	332,0707219	0	352,1445677	332,1597544	0	0	TRUE	33,0%	274,2587776	0	0	TRUE	27,3%
3921	3	1005,615518	Non-Empty	702,2926079	292,3982186	0	0	TRUE	331,3672158	0	300,2442989	340,2753356	0	0	TRUE	33,8%	417,9181372	0	0	TRUE	41,6%
3922	1	1258,709998	Empty	698,776539	456,1319585	144,5441049	0,114835113	FALSE	455,7217284	0,029072216	427,2548253	427,2548253	172,070805	0,13670409	FALSE	33,9%	460,5036577	160,6214793	0,127608011	FALSE	36,6%
3922	2	1258,709998	Empty	645,5119401	402,7476167	144,5441049	0,114835113	FALSE	402,2176438	0,029072216	402,2176438	394,6871078	172,070805	0,13670409	FALSE	31,4%	414,4532919	160,6214793	0,127608011	FALSE	32,9%
3922	3	1258,709998	Empty	641,1245699	399,8304225	144,5441049	0,114835113	FALSE	400,7706255	0,029072216	400,7706255	436,7680647	172,070805	0,13670409	FALSE	34,7%	383,7530481	160,6214793	0,127608011	FALSE	30,5%
3923	1	931,0194115	Non-Empty	517,2593691	276,1211545	0	0	TRUE	317,625452	0	270,7089793	258,0129491	0	0	TRUE	27,7%	320,684464	0	0	TRUE	34,4%
3923	2	931,0194115	Non-Empty	646,6801113	343,92747	0	0	TRUE	323,8173407	0	338,4427722	322,56901									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3938	1	957,1173248	Non-Empty	609,8315924	304,2092922	0	0	TRUE	291,9820894	0,008900401	315,9710045	313,9939593	7,037948326	0,007353276	FALSE	32,8%	326,0509568	63,56747224	0,066415549	FALSE	34,1%
3938	2	957,1173248	Non-Empty	579,6197579	313,8456524	0	0	TRUE	341,4666443	0,008900401	305,4762466	298,4382983	7,037948326	0,007353276	FALSE	31,2%	241,9087744	63,56747224	0,066415549	FALSE	25,3%
3938	3	957,1173248	Non-Empty	647,8512668	339,0623802	0	0	TRUE	323,668591	0,008900401	335,6700736	344,6850672	7,037948326	0,007353276	FALSE	36,0%	389,1575936	63,56747224	0,066415549	FALSE	40,7%
3939	1	1244,605068	Non-Empty	797,8079159	371,4597804	0	0	TRUE	392,4582955	0	383,877868	385,9478642	0	0	TRUE	31,0%	441,6340565	0	0	TRUE	35,5%
3939	2	1244,605068	Non-Empty	846,4764466	399,1090483	0	0	TRUE	399,0883007	0	407,2954995	409,4917713	0	0	TRUE	32,9%	388,1026557	0	0	TRUE	31,2%
3939	3	1244,605068	Non-Empty	942,3606578	474,0362396	0	0	TRUE	453,058472	0	453,4317008	449,1654329	0	0	TRUE	36,1%	414,8683561	0	0	TRUE	33,3%
3940	1	925,2716557	Non-Empty	623,4360164	306,8493617	0	0	TRUE	294,7393164	0	313,7255722	303,8761999	0	0	TRUE	32,8%	280,7003899	0	0	TRUE	30,3%
3940	2	925,2716557	Non-Empty	597,8427669	307,456559	0	0	TRUE	321,5469606	0	300,846533	291,4014965	0	0	TRUE	31,5%	353,4745651	0	0	TRUE	38,2%
3940	3	925,2716557	Non-Empty	617,4227009	310,965735	0	0	TRUE	308,9853787	0	310,6995505	329,9939594	0	0	TRUE	35,7%	291,0967007	0	0	TRUE	31,5%
3941	1	1133,196132	Empty	555,0596074	374,2729285	140,4976448	0,12398352	FALSE	388,4649518	0,067932802	388,4649518	352,9486463	161,821927	0,142801341	FALSE	31,1%	431,6937646	195,6324047	0,172637727	FALSE	38,1%
3941	2	1133,196132	Empty	585,2789687	384,9534715	140,4976448	0,12398352	FALSE	379,6066766	0,067932802	379,6066766	372,1643892	161,821927	0,142801341	FALSE	32,8%	310,2798933	195,6324047	0,172637727	FALSE	27,4%
3941	3	1133,196132	Empty	577,7936629	373,9697322	140,4976448	0,12398352	FALSE	365,1245037	0,067932802	365,1245037	408,0830966	161,821927	0,142801341	FALSE	36,0%	391,2224742	195,6324047	0,172637727	FALSE	34,5%
3942	1	1004,007083	Empty	504,9136452	315,0943508	110,3928554	0,109952268	FALSE	313,059573	0,056289635	313,059573	322,6278199	120,5811543	0,120099904	FALSE	32,1%	353,6843132	168,3578039	0,167685873	FALSE	35,2%
3942	2	1004,007083	Empty	527,350062	334,309327	110,3928554	0,109952268	FALSE	329,0531086	0,056289635	329,0531086	336,9641569	120,5811543	0,120099904	FALSE	33,6%	353,6843132	168,3578039	0,167685873	FALSE	35,2%
3942	3	1004,007083	Empty	535,0969251	354,6034048	110,3928554	0,109952268	FALSE	361,894401	0,056289635	361,894401	344,4151058	120,5811543	0,120099904	FALSE	34,3%	296,6384562	168,3578039	0,167685873	FALSE	29,5%
3943	1	934,8730212	Non-Empty	705,47408	326,6024317	0	0	TRUE	321,3690038	0	320,8155639	312,9659321	0	0	TRUE	33,5%	304,6215462	0	0	TRUE	32,6%
3943	2	934,8730212	Non-Empty	656,9023281	289,8681012	0	0	TRUE	296,4720946	0	298,7274754	291,4182892	0	0	TRUE	31,2%	315,1257375	0	0	TRUE	33,7%
3943	3	934,8730212	Non-Empty	693,4112739	318,4024882	0	0	TRUE	317,0319228	0	315,3299819	330,4887999	0	0	TRUE	35,4%	315,1257375	0	0	TRUE	33,7%
3944	1	955,3962827	Non-Empty	613,4191088	293,4132534	0	0	TRUE	287,2271186	0	308,9630989	314,6087719	0	0	TRUE	32,9%	285,6339402	0	0	TRUE	29,9%
3944	2	955,3962827	Non-Empty	600,7348132	294,6539113	0	0	TRUE	302,39273	0	302,5743522	308,1032839	0	0	TRUE	32,2%	305,3328326	0	0	TRUE	32,0%
3944	3	955,3962827	Non-Empty	682,7015225	367,329118	0	0	TRUE	365,7764341	0	343,8588316	332,684227	0	0	TRUE	34,8%	364,4295099	0	0	TRUE	38,1%
3945	1	1660,39782	Empty	821,5914312	555,0899473	229,7693772	0,138382124	FALSE	561,8549118	0,02970542	561,8549118	526,4532249	258,4060996	0,155629028	FALSE	31,7%	570,7617507	269,9581218	0,162586411	FALSE	34,4%
3945	2	1660,39782	Empty	864,9737777	578,7676787	229,7693772	0,138382124	FALSE	565,828028	0,02970542	565,828028	554,2514411	258,4060996	0,155629028	FALSE	33,4%	518,8743188	269,9581218	0,162586411	FALSE	31,3%
3945	3	1660,39782	Empty	793,6319565	526,5401942	229,7693772	0,138382124	FALSE	532,7148804	0,02970542	532,7148804	579,6931542	258,4060996	0,155629028	FALSE	34,9%	570,7617507	269,9581218	0,162586411	FALSE	34,4%
3946	1	654,4887	Non-Empty	438,3963636	169,4772536	0	0	TRUE	181,8473242	0	191,4934901	179,7441355	0	0	TRUE	27,5%	198,0689487	0	0	TRUE	30,3%
3946	2	654,4887	Non-Empty	572,1302116	287,5671498	0	0	TRUE	284,2932686	0	249,9090323	234,5755093	0	0	TRUE	35,8%	275,5741895	0	0	TRUE	42,1%
3946	3	654,4887	Non-Empty	487,8296665	197,4442965	0	0	TRUE	188,3481072	0	213,0861776	240,1690552	0	0	TRUE	36,7%	180,8455618	0	0	TRUE	27,6%
3947	1	813,3158254	Non-Empty	631,2851098	273,8076534	0	0	TRUE	266,3740737	0	275,5291912	277,6967045	0	0	TRUE	34,1%	259,5688804	0	0	TRUE	31,9%
3947	2	813,3158254	Non-Empty	579,8176113	243,8779581	0	0	TRUE	257,9821816	0	253,0658097	255,0566097	0	0	TRUE	31,4%	259,5688804	0	0	TRUE	31,9%
3947	3	813,3158254	Non-Empty	652,3447342	295,6302139	0	0	TRUE	288,9595701	0	284,7208245	280,5625112	0	0	TRUE	34,5%	294,1780645	0	0	TRUE	36,2%
3948	1	1257,451821	Empty	627,475723	398,6773762	118,209431	0,094007125	FALSE	368,4226287	0,147374243	368,4226287	405,3442533	152,8756118	0,121575721	FALSE	32,2%	378,4563733	128,8221286	0,10244697	FALSE	30,1%
3948	2	1257,451821	Empty	605,3135994	425,6938811	118,209431	0,094007125	FALSE	444,6177622	0,147374243	444,6177622	391,0277003	152,8756118	0,121575721	FALSE	31,1%	415,0811836	128,8221286	0,10244697	FALSE	33,0%
3948	3	1257,451821	Empty	620,2932965	433,0805635	118,209431	0,094007125	FALSE	444,4114299	0,147374243	444,4114299	461,0798672	152,8756118	0,121575721	FALSE	36,7%	463,914264	128,8221286	0,10244697	FALSE	36,9%
3949	1	768,7815789	Non-Empty	610,3485159	283,1128474	0	0	TRUE	270,0839881	0	274,1756139	258,8984853	0	0	TRUE	33,7%	261,8926258	0	0	TRUE	34,1%
3949	2	768,7815789	Non-Empty	578,1983707	252,7425832	0	0	TRUE	241,4936049	0	259,7333967	245,2609918	0	0	TRUE	31,9%	270,340775	0	0	TRUE	35,2%
3949	3	768,7815789	Non-Empty	522,85512	232,9261483	0	0	TRUE	257,2039859	0	234,8725683	264,6221018	0	0	TRUE	34,4%	236,5481781	0	0	TRUE	30,8%
3950	1	1272,668689	Empty	635,6428898	417,57987	172,7911993	0,135770763	FALSE	400,0886541	0,112626771	400,0886541	399,9381013	174,7429049	0,137304317	FALSE	31,4%	415,0006593	202,4991478	0,159113797	FALSE	32,6%
3950	2	1272,668689	Empty	676,5748243	465,7136319	172,7911993	0,135770763	FALSE	455,4242434	0,112626771	455,4242434	425,6919332	174,7429049	0,137304317	FALSE	33,4%	498,0007912	202,4991478	0,159113797	FALSE	39,1%
3950	3	1272,668689	Empty	562,1663858	389,3751865	172,7911993	0,135770763	FALSE	417,155791	0,112626771	417,155791	447,038654	174,7429049	0,137304317	FALSE	35,1%	359,6672381	202,4991478	0,159113797	FALSE	28,3%
3951	1	571,1394098	Non-Empty	429,4154117	189,8370222	0	0	TRUE	189,7015891	0	190,1993782	193,5649584	0	0	TRUE	33,9%	169,9819672	0	0	TRUE	29,8%
3951	2	571,1394098	Non-Empty	389,7552322	152,4024309	0	0	TRUE	154,4925859	0	172,6328417	175,6875819	0	0	TRUE	30,8%	203,9783606	0	0	TRUE	35,7%
3951	3	571,1394098	Non-Empty	470,297635	228,8999567	0	0	TRUE	226,9452348	0	208,3071899	201,8868695	0	0	TRUE	35,3%	197,179082	0	0	TRUE	34,5%
3952	1	1090,631098	Non-Empty	780,5015488	359,8293562	0	0	TRUE	350,0083	0	366,4105276	364,2240469	0	0	TRUE	33,4%	392,1370238	0	0	TRUE	36,0%
3952	2	1090,631098	Non-Empty	766,3221832	340,071111	0	0	TRUE	324,6711751	0	359,7539504	357,6071915	0	0	TRUE	32,8%	343,1198959	0	0	TRUE	31,5%
3952	3	1090,631098	Non-Empty	776,3607745	390,7306303	0	0	TRUE	415,9516225	0	364,4666195	368,7998592	0	0	TRUE	33,8%	355,3741779	0	0	TRUE	32,6%
3953	1	795,6035471	Empty	345,5762114	256,7470545	88,82915685	0,111650026	FALSE	272,1077051	0,207462007	272,1077051	227,5065239	123,4081873	0,155112666	FALSE	28,6%	241,091984	104,4842274	0,131327	FALSE	30,3%
3953	2	795,6035471	Empty	370,4578967	280,0474472	88,82915685	0,111650026	FALSE	293,826805	0,207462007	293,826805	243,887124	123,4081873	0,155112666	FALSE	30,7%	313,4195792	104,4842274	0,131327	FALSE	39,4%
3953	3	795,6035471	Empty	392,1388614	258,8090455	88,82915685	0,111650026	FALSE	229,669037	0,207462007	229,669037	324,2098992	123,4081873	0,155112666	FALSE	40,8%	241,091984	104,4842274	0,131327	FALSE	30,3%
3954	1	690,8426443	Non-Empty	409,825592	200,8274739	0	0	TRUE	190,8939482	0	217,7823567	222,5264223	0,545872774	0,000790155	FALSE	32,2%	225,2747753	25,6975992	0,037197471	FALSE	32,6%
3954	2	690,8426443	Non-Empty	415,1157794	222,1480945	0	0	TRUE	232,245002	0	220,5935756	225,3988795	0,								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
3969	1	1397,734988	Empty	717,6958094	471,3808454	165,8752131	0,118674294	FALSE	469,9559131	0,061936366	469,9559131	465,5655147	172,4303461	0,123364119	FALSE	33,3%	378,2106439	237,6842515	0,170049583	FALSE	27,1%
3969	2	1397,734988	Empty	658,9965395	434,0427386	165,8752131	0,118674294	FALSE	453,9789693	0,061936366	453,9789693	427,4876056	172,4303461	0,123364119	FALSE	30,6%	443,986408	237,6842515	0,170049583	FALSE	31,8%
3969	3	1397,734988	Empty	755,7127345	492,3114042	165,8752131	0,118674294	FALSE	473,8001058	0,061936366	473,8001058	504,6818679	172,4303461	0,123364119	FALSE	36,1%	575,5379363	237,6842515	0,170049583	FALSE	41,2%
3970	1	1287,660579	Non-Empty	884,7518836	414,6139317	0	0	TRUE	440,6630907	0	440,6630907	397,5540123	0	0	TRUE	30,9%	377,193503	0	0	TRUE	29,3%
3970	2	1287,660579	Non-Empty	970,9773383	459,0817607	0	0	TRUE	443,3722941	0	450,3568636	436,2985193	0	0	TRUE	33,9%	390,2001755	0	0	TRUE	30,3%
3970	3	1287,660579	Non-Empty	920,4896898	413,9648866	0	0	TRUE	403,6261942	0	426,9397784	453,8080475	0	0	TRUE	35,2%	520,2669006	0	0	TRUE	40,4%
3971	1	967,2350788	Empty	500,7554275	356,1067087	111,5417221	0,115320179	FALSE	359,0657127	0,079298101	359,0657127	314,6584108	151,9237393	0,15707013	FALSE	32,5%	312,3363275	154,2458226	0,159470873	FALSE	32,3%
3971	2	967,2350788	Empty	463,2675232	319,6850851	111,5417221	0,115320179	FALSE	323,7103698	0,079298101	323,7103698	291,102232	151,9237393	0,15707013	FALSE	30,1%	332,4870583	154,2458226	0,159470873	FALSE	34,4%
3971	3	967,2350788	Empty	446,0352965	291,443285	111,5417221	0,115320179	FALSE	284,4589963	0,079298101	284,4589963	361,474436	151,9237393	0,15707013	FALSE	37,4%	322,4116929	154,2458226	0,159470873	FALSE	33,3%
3972	1	1200,422811	Empty	612,9478428	403,2311377	124,1437397	0,103416678	FALSE	421,3948826	0,090723896	421,3948826	377,2907008	150,0841766	0,125026095	FALSE	31,4%	336,7039592	190,6709182	0,158836467	FALSE	28,0%
3972	2	1200,422811	Empty	639,9491967	396,9840391	124,1437397	0,103416678	FALSE	381,8993315	0,090723896	381,8993315	393,9109725	150,0841766	0,125026095	FALSE	32,8%	453,8183798	190,6709182	0,158836467	FALSE	37,8%
3972	3	1200,422811	Empty	631,1671216	400,2076343	124,1437397	0,103416678	FALSE	397,1285969	0,090723896	397,1285969	429,2211377	150,0841766	0,125026095	FALSE	35,8%	409,900472	190,6709182	0,158836467	FALSE	34,1%
3973	1	1167,118524	Empty	593,8096879	399,6873877	146,2807372	0,125334946	FALSE	390,6591503	0,034579819	390,6591503	375,5158257	166,7367592	0,142861891	FALSE	32,2%	407,7883999	161,6045287	0,138464539	FALSE	34,9%
3973	2	1167,118524	Empty	592,2552622	406,1131631	146,2807372	0,125334946	FALSE	405,065127	0,034579819	405,065127	374,5328315	166,7367592	0,142861891	FALSE	32,1%	379,665062	161,6045287	0,138464539	FALSE	32,5%
3973	3	1167,118524	Empty	536,3357625	361,3179731	146,2807372	0,125334946	FALSE	371,3942465	0,034579819	371,3942465	417,0698667	166,7367592	0,142861891	FALSE	35,7%	379,665062	161,6045287	0,138464539	FALSE	32,5%
3974	1	1342,086538	Empty	636,6944023	419,7621077	188,1139884	0,14016532	FALSE	421,4770212	0,033922084	421,4770212	404,9254408	227,3591424	0,169407215	FALSE	30,2%	354,804487	253,0716091	0,188565791	FALSE	26,4%
3974	2	1342,086538	Empty	731,9951959	509,9214874	188,1139884	0,14016532	FALSE	506,4949871	0,033922084	506,4949871	465,5349196	227,3591424	0,169407215	FALSE	34,7%	539,9198715	253,0716091	0,188565791	FALSE	40,2%
3974	3	1342,086538	Empty	629,3385639	412,4029426	188,1139884	0,14016532	FALSE	414,1145293	0,033922084	414,1145293	471,6261772	227,3591424	0,169407215	FALSE	35,1%	447,3621792	253,0716091	0,188565791	FALSE	33,3%
3975	1	1092,571241	Empty	510,4567995	356,6660785	151,0150023	0,138219822	FALSE	365,9649137	0,059422485	365,9649137	323,4832674	184,1978134	0,168591124	FALSE	29,6%	356,5232469	168,0301784	0,153793338	FALSE	32,6%
3975	2	1092,571241	Empty	583,533801	413,1415013	151,0150023	0,138219822	FALSE	405,8387579	0,059422485	405,8387579	369,7931358	184,1978134	0,168591124	FALSE	33,8%	379,5247467	168,0301784	0,153793338	FALSE	34,7%
3975	3	1092,571241	Empty	487,8493088	322,7636607	151,0150023	0,138219822	FALSE	320,7675689	0,059422485	320,7675689	399,2948373	184,1978134	0,168591124	FALSE	36,5%	356,5232469	168,0301784	0,153793338	FALSE	32,6%
3976	1	1167,245093	Non-Empty	855,3674978	430,0900174	0	0	TRUE	471,3828051	0	388,9523445	386,7699147	0	0	TRUE	33,1%	415,2698888	0	0	TRUE	35,6%
3976	2	1167,245093	Non-Empty	830,106726	297,3333813	0	0	TRUE	231,1303048	0	377,4657771	375,347799	0	0	TRUE	32,2%	314,2582942	0	0	TRUE	26,9%
3976	3	1167,245093	Non-Empty	881,4816735	439,8216941	0	0	TRUE	464,7319829	0	400,8269713	405,1273792	0	0	TRUE	34,7%	437,7169098	0	0	TRUE	37,5%
3977	1	1107,99632	Empty	516,0737123	341,1044302	126,561382	0,114225453	FALSE	381,5521849	0,161987294	381,5521849	314,6675436	152,9982686	0,138085539	FALSE	28,4%	362,0185997	105,6472125	0,095349786	FALSE	32,7%
3977	2	1107,99632	Empty	630,223748	395,125676	126,561382	0,114225453	FALSE	375,4446408	0,161987294	375,4446408	384,2686693	152,9982686	0,138085539	FALSE	34,7%	405,8996421	105,6472125	0,095349786	FALSE	36,6%
3977	3	1107,99632	Empty	607,9499702	371,766214	126,561382	0,114225453	FALSE	350,9994945	0,161987294	350,9994945	409,0601073	152,9982686	0,138085539	FALSE	36,9%	340,0780785	105,6472125	0,095349786	FALSE	30,7%
3978	1	620,4017167	Non-Empty	545,564504	233,1753066	0	0	TRUE	232,1522412	0	217,7350469	211,4961444	0	0	TRUE	34,1%	184,0752346	0	0	TRUE	29,7%
3978	2	620,4017167	Non-Empty	507,2078076	194,5019136	0	0	TRUE	193,1621515	0	202,4268716	196,6266041	0	0	TRUE	31,7%	231,7984436	0	0	TRUE	37,4%
3978	3	620,4017167	Non-Empty	501,7278007	192,7244964	0	0	TRUE	195,087324	0	200,2397982	212,2789682	0	0	TRUE	34,2%	204,5280385	0	0	TRUE	33,0%
3979	1	712,7090714	Non-Empty	506,3443132	247,9985641	0	0	TRUE	236,2211861	0	248,4664424	237,785212	0	0	TRUE	33,4%	263,3924829	0	0	TRUE	37,0%
3979	2	712,7090714	Non-Empty	476,0581265	232,4633467	0	0	TRUE	235,4369379	0	233,6048139	223,5624644	0	0	TRUE	31,4%	209,1646188	0	0	TRUE	29,3%
3979	3	712,7090714	Non-Empty	470,0117448	232,2471606	0	0	TRUE	241,0509474	0	230,6378152	251,361395	0	0	TRUE	35,3%	240,1519697	0	0	TRUE	33,7%
3980	1	945,0735803	Empty	473,9953405	299,5206946	126,9798571	0,134359758	FALSE	289,0696452	0,092114037	297,0696452	297,0696452	130,3885872	0,137966599	FALSE	31,4%	398,5250037	202,7234434	0,21450546	FALSE	42,2%
3980	2	945,0735803	Empty	515,108879	346,2888771	126,9798571	0,134359758	FALSE	341,4924719	0,092114037	341,4924719	322,8362871	130,3885872	0,137966599	FALSE	34,2%	250,5014309	202,7234434	0,21450546	FALSE	26,5%
3980	3	945,0735803	Empty	448,0401506	299,2640086	126,9798571	0,134359758	FALSE	314,5114632	0,092114037	314,5114632	325,1682616	130,3885872	0,137966599	FALSE	34,4%	296,0471456	202,7234434	0,21450546	FALSE	31,3%
3981	1	899,4589877	Non-Empty	713,2287766	305,9701607	0	0	TRUE	307,6558094	0	301,7083727	287,8639945	0	0	TRUE	32,0%	339,5916586	0	0	TRUE	37,8%
3981	2	899,4589877	Non-Empty	714,4242341	322,2623153	0	0	TRUE	339,0446612	0	302,2140724	288,3464894	0	0	TRUE	32,1%	302,8790469	0	0	TRUE	33,7%
3981	3	899,4589877	Non-Empty	698,6387711	271,2265117	0	0	TRUE	252,758517	0	295,5365426	323,2485038	0	0	TRUE	35,9%	256,9882822	0	0	TRUE	28,6%
3982	1	887,8343481	Non-Empty	657,7232671	272,6421926	0	0	TRUE	231,3065378	0	304,2875577	290,9713437	0	0	TRUE	32,8%	275,8320305	0	0	TRUE	31,1%
3982	2	887,8343481	Non-Empty	616,9725418	299,7775825	0	0	TRUE	326,328043	0	285,4347372	272,9435592	0	0	TRUE	30,7%	318,9307852	0	0	TRUE	35,9%
3982	3	887,8343481	Non-Empty	644,3747986	315,414573	0	0	TRUE	330,1997673	0	298,1120533	323,9194452	0	0	TRUE	36,5%	293,0715324	0	0	TRUE	33,0%
3983	1	1456,683253	Empty	724,4212628	479,3229395	195,5290266	0,134228925	FALSE	489,2593657	0,041880492	489,2593657	470,9637798	203,8881863	0,139967413	FALSE	32,3%	440,0397327	234,8122334	0,161196494	FALSE	30,2%
3983	2	1456,683253	Empty	730,7572891	478,7501585	195,5290266	0,134228925	FALSE	481,7777774	0,041880492	481,7777774	475,0829837	203,8881863	0,139967413	FALSE	32,6%	515,9086522	234,8122334	0,161196494	FALSE	35,4%
3983	3	1456,683253	Empty	766,6089495	498,6101551	195,5290266	0,134228925	FALSE	485,6461101	0,041880492	485,6461101	510,6364896	203,8881863	0,139967413	FALSE	35,1%	500,7348683	234,8122334	0,161196494	FALSE	34,4%
3984	1	771,5373072	Non-Empty	535,7987669	269,596926	0	0	TRUE	256,3410468	0	270,1224771	255,7741329	0	0	TRUE	33,2%	234,8157022	0	0	TRUE	30,4%
3984	2	771,5373072	Non-Empty	491,2760895	252,6865461	0	0	TRUE	267,0429643	0	247,6764085	234,5203527	0	0	TRUE	30,4%	259,9745274	0	0	TRUE	33,7%
3984	3	771,5373072	Non-Empty	503,3003358	249,2538351	0	0	TRUE	248,1532961	0	253,7										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4000	1	750,7917969	Non-Empty	505,8387807	239,8921323	0	0	TRUE	245,6559882	0	242,5275904	235,9791753	0	0	TRUE	31,4%	250,2639323	0	0	TRUE	33,3%
4000	2	750,7917969	Non-Empty	525,075947	257,2213987	0	0	TRUE	261,0773545	0	251,750971	244,9535182	0	0	TRUE	32,6%	250,2639323	0	0	TRUE	33,3%
4000	3	750,7917969	Non-Empty	535,008582	253,6782659	0	0	TRUE	244,0584541	0	256,5132354	269,8591034	0	0	TRUE	35,9%	250,2639323	0	0	TRUE	33,3%
4001	1	829,6554421	Non-Empty	725,230523	297,3615404	0	0	TRUE	300,9175203	0	283,2915195	271,2789564	0	0	TRUE	32,7%	290,3794047	0	0	TRUE	35,0%
4001	2	829,6554421	Non-Empty	714,9742349	269,0372533	0	0	TRUE	254,5252341	0	279,2851803	267,4425002	0	0	TRUE	32,2%	269,6380187	0	0	TRUE	32,5%
4001	3	829,6554421	Non-Empty	683,7255714	263,2566484	0	0	TRUE	274,2126878	0	267,0787424	290,9339855	0	0	TRUE	35,1%	269,6380187	0	0	TRUE	32,5%
4002	1	1129,042493	Non-Empty	861,0175359	432,9748295	0	0	TRUE	425,0343601	0	406,8578104	378,1472875	0	0	TRUE	33,5%	357,7164336	0	0	TRUE	31,7%
4002	2	1129,042493	Non-Empty	806,1388159	368,7590703	0	0	TRUE	351,4815617	0	380,9258927	354,0452939	0	0	TRUE	31,4%	368,8950721	0	0	TRUE	32,7%
4002	3	1129,042493	Non-Empty	722,1928527	327,3085937	0	0	TRUE	352,5265717	0	341,2587903	396,8499121	0	0	TRUE	35,1%	402,4309877	0	0	TRUE	35,6%
4003	1	1626,569708	Empty	903,850457	596,0644529	210,6005439	0,129475265	FALSE	577,1645763	0,051786773	577,1645763	564,1506084	236,7896926	0,145576111	FALSE	34,7%	509,5278602	255,7550218	0,15723582	FALSE	31,3%
4003	2	1626,569708	Empty	778,5118309	512,1079416	210,6005439	0,129475265	FALSE	534,5901798	0,051786773	534,5901798	485,9187929	236,7896926	0,145576111	FALSE	29,9%	587,9167618	255,7550218	0,15723582	FALSE	36,1%
4003	3	1626,569708	Empty	810,8658023	518,3973132	210,6005439	0,129475265	FALSE	514,8149516	0,051786773	514,8149516	576,5003064	236,7896926	0,145576111	FALSE	35,4%	529,1250856	255,7550218	0,15723582	FALSE	32,5%
4004	1	736,3255798	Non-Empty	667,9971678	255,4103605	0	0	TRUE	252,2500741	0	250,3624729	236,0389278	0	0	TRUE	32,1%	204,5348833	0	0	TRUE	27,8%
4004	2	736,3255798	Non-Empty	689,7827833	273,9225593	0	0	TRUE	267,4888563	0	258,5276282	243,7369445	0	0	TRUE	33,1%	269,9860459	0	0	TRUE	36,7%
4004	3	736,3255798	Non-Empty	606,8251915	206,99266	0	0	TRUE	216,5866494	0	227,4354786	256,5497075	0	0	TRUE	34,8%	261,8046506	0	0	TRUE	35,6%
4005	1	1588,625709	Empty	774,3314373	533,3627079	241,9618269	0,152308895	FALSE	541,5987533	0,045697773	541,5987533	510,4973248	264,82721	0,16670208	FALSE	32,1%	512,4599061	296,1786753	0,18643704	FALSE	32,3%
4005	2	1588,625709	Empty	787,0092259	539,1232972	241,9618269	0,152308895	FALSE	540,4421432	0,045697773	540,4421432	518,8554734	264,82721	0,16670208	FALSE	32,7%	632,0338842	296,1786753	0,18643704	FALSE	39,8%
4005	3	1588,625709	Empty	774,8993699	516,1397038	241,9618269	0,152308895	FALSE	506,5848124	0,045697773	506,5848124	559,2729107	264,82721	0,16670208	FALSE	35,2%	444,1319186	296,1786753	0,18643704	FALSE	28,0%
4006	1	1261,361577	Empty	591,7026528	374,3332778	154,1971049	0,122246553	FALSE	391,2018278	0,041683637	391,2018278	368,8121904	159,7181923	0,126623638	FALSE	29,2%	481,8684675	190,1763026	0,150770648	FALSE	38,2%
4006	2	1261,361577	Empty	715,0885158	471,9237711	154,1971049	0,122246553	FALSE	462,9969514	0,041683637	462,9969514	445,7194177	159,7181923	0,126623638	FALSE	35,3%	425,1780595	190,1763026	0,150770648	FALSE	33,7%
4006	3	1261,361577	Empty	657,2841833	415,1045277	154,1971049	0,122246553	FALSE	407,1627973	0,041683637	407,1627973	446,8299685	159,7181923	0,126623638	FALSE	35,4%	354,3150496	190,1763026	0,150770648	FALSE	28,1%
4007	1	1124,932209	Empty	627,354251	393,1206852	80,4089863	0,071478962	FALSE	389,5980778	0,004707479	389,5980778	368,605478	97,59769271	0,086758733	FALSE	32,8%	426,698424	111,9066552	0,099478577	FALSE	37,9%
4007	2	1124,932209	Empty	602,7617299	371,7694854	80,4089863	0,071478962	FALSE	371,4881994	0,004707479	371,4881994	354,1560055	97,59769271	0,086758733	FALSE	31,5%	336,1866371	111,9066552	0,099478577	FALSE	29,9%
4007	3	1124,932209	Empty	586,9491031	360,0420381	80,4089863	0,071478962	FALSE	363,8459315	0,004707479	363,8459315	402,1707252	97,59769271	0,086758733	FALSE	35,8%	362,0471476	111,9066552	0,099478577	FALSE	32,2%
4008	1	499,8890776	Non-Empty	442,323986	168,7712321	0	0	TRUE	161,7147253	0	170,1683115	159,5628401	0	0	TRUE	31,9%	164,5204559	0	0	TRUE	32,9%
4008	2	499,8890776	Non-Empty	446,4163093	188,1365495	0	0	TRUE	196,3530365	0	171,7426863	161,0390945	0	0	TRUE	32,2%	189,8312953	0	0	TRUE	38,0%
4008	3	499,8890776	Non-Empty	410,6375232	142,981296	0	0	TRUE	141,8213158	0	157,9780798	179,287143	0	0	TRUE	35,9%	145,5373264	0	0	TRUE	29,1%
4009	1	864,7458679	Non-Empty	673,7736561	237,3265546	0	0	TRUE	256,2286895	0	261,1819358	271,0768143	0	0	TRUE	31,3%	257,3648416	0	0	TRUE	29,8%
4009	2	864,7458679	Non-Empty	713,3641642	258,4838248	0	0	TRUE	258,9527218	0	276,528819	287,0051142	0	0	TRUE	33,2%	298,5432163	0	0	TRUE	34,5%
4009	3	864,7458679	Non-Empty	843,6557571	368,9354886	0	0	TRUE	349,5644565	0	327,0351131	306,6639394	0	0	TRUE	35,5%	308,83781	0	0	TRUE	35,7%
4010	1	1609,944944	Empty	808,938115	553,3532855	235,4801857	0,146265987	FALSE	540,6741139	0,035866941	540,6741139	546,8808936	241,004816	0,149697551	FALSE	34,0%	526,3281547	255,1001496	0,158452716	FALSE	32,7%
4010	2	1609,944944	Empty	743,9519527	508,471767	235,4801857	0,146265987	FALSE	515,8972391	0,035866941	515,8972391	502,9471367	241,004816	0,149697551	FALSE	31,2%	557,2886344	255,1001496	0,158452716	FALSE	34,6%
4010	3	1609,944944	Empty	785,7718495	548,1198912	235,4801857	0,146265987	FALSE	553,3735907	0,035866941	553,3735907	560,1169134	241,004816	0,149697551	FALSE	34,8%	526,3281547	255,1001496	0,158452716	FALSE	32,7%
4011	1	764,1361646	Non-Empty	571,1839615	208,5352917	0	0	TRUE	238,722808	0	224,6742888	226,7425401	0	0	TRUE	29,7%	220,9550356	0	0	TRUE	28,9%
4011	2	764,1361646	Non-Empty	634,2222454	245,460953	0	0	TRUE	249,5358468	0	249,470296	251,7668082	0	0	TRUE	32,9%	239,3679552	0	0	TRUE	31,3%
4011	3	764,1361646	Non-Empty	737,2385162	310,13992	0	0	TRUE	275,8775099	0	289,9915798	285,6268163	0	0	TRUE	37,4%	303,8131739	0	0	TRUE	39,8%
4012	1	1276,800583	Empty	641,1513956	445,7885989	152,8052679	0,119678257	FALSE	456,5289012	0,089812845	456,5289012	406,6450913	191,9487755	0,150335752	FALSE	31,8%	521,703464	199,7619914	0,156455122	FALSE	40,9%
4012	2	1276,800583	Empty	651,8779061	425,6972308	152,8052679	0,119678257	FALSE	405,6196543	0,089812845	405,6196543	413,448294	191,9487755	0,150335752	FALSE	32,4%	398,1421173	199,7619914	0,156455122	FALSE	31,2%
4012	3	1276,800583	Empty	602,0805779	405,3147532	152,8052679	0,119678257	FALSE	414,6520274	0,089812845	414,6520274	456,7071977	191,9487755	0,150335752	FALSE	35,8%	356,9550017	199,7619914	0,156455122	FALSE	28,0%
4013	1	610,1365235	Non-Empty	489,7076745	163,3915974	0	0	TRUE	177,0776268	0	183,2897892	192,1930104	0	0	TRUE	31,5%	170,2706577	0	0	TRUE	27,9%
4013	2	610,1365235	Non-Empty	532,4424119	185,4344119	0	0	TRUE	178,4285182	0	199,2847213	208,9648893	0	0	TRUE	34,2%	276,6898188	0	0	TRUE	45,3%
4013	3	610,1365235	Non-Empty	607,9927564	261,3105142	0	0	TRUE	254,6303785	0	227,562013	208,9786238	0	0	TRUE	34,3%	163,176047	0	0	TRUE	26,7%
4014	1	1080,21851	Empty	567,3159821	365,5086547	122,2179733	0,113141899	FALSE	361,0564157	0,084011843	361,0564157	363,9070171	127,8509053	0,118356522	FALSE	33,7%	279,5859673	181,5528698	0,168070504	FALSE	25,9%
4014	2	1080,21851	Empty	504,404984	329,1854477	122,2179733	0,113141899	FALSE	351,3209996	0,084011843	351,3209996	323,5525156	127,8509053	0,118356522	FALSE	30,0%	368,5451387	181,5528698	0,168070504	FALSE	34,1%
4014	3	1080,21851	Empty	600,5628088	385,5244075	122,2179733	0,113141899	FALSE	367,8410945	0,084011843	367,8410945	392,7589772	127,8509053	0,118356522	FALSE	36,4%	432,0874039	181,5528698	0,168070504	FALSE	40,0%
4015	1	576,7271166	Non-Empty	510,5772408	184,0252782	0	0	TRUE	179,1382713	0	190,9966537	186,3149174	0	0	TRUE	32,3%	188,1951644	0	0	TRUE	32,6%
4015	2	576,7271166	Non-Empty	504,8662448	198,2622618	0	0	TRUE	213,3232344	0	188,8602853	184,2309159	0	0	TRUE	31,9%	176,0535409	0	0	TRUE	30,5%
4015	3	576,7271166	Non-Empty	526,2784982	194,4395767	0	0	TRUE	184,2656109	0	196,8701776	206,1812833	0	0	TRUE	35,8%	212,4784114	0	0	TRUE	36,8%
4016	1	528,3447648	Non-Empty	445,122274	181,670763	0	0	TRUE	174,1825224	0	181,4316849	166,8322157	0	0	TRUE	31,6%	174,2413586	0	0	TRUE	33,0%
4016	2	528,3447648	Non-Empty	450,285416	197,4237071	0	0	TRUE	200,5252685												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4031	1	1167,44482	Empty	620,6077844	400,4772919	142,5326605	0,12208942	FALSE	400,0777284	0,019524995	400,0777284	387,1447291	151,387298	0,12967405	FALSE	33,2%	275,4645081	263,067519	0,225336148	FALSE	23,6%
4031	2	1167,44482	Empty	608,1579692	384,7482419	142,5326605	0,12208942	FALSE	381,0694435	0,019524995	381,0694435	379,378342	151,387298	0,12967405	FALSE	32,5%	524,6943011	263,067519	0,225336148	FALSE	44,9%
4031	3	1167,44482	Empty	597,8718533	382,2192862	142,5326605	0,12208942	FALSE	386,297648	0,019524995	386,297648	400,9217489	151,387298	0,12967405	FALSE	34,3%	367,2860108	263,067519	0,225336148	FALSE	31,5%
4032	1	1006,159816	Empty	454,7959522	298,3333355	107,9648597	0,107303888	FALSE	309,7574506	0,093004267	309,7574506	298,144237	123,3319091	0,122576858	FALSE	29,6%	275,4961402	132,5469699	0,131735503	FALSE	27,4%
4032	2	1006,159816	Empty	507,3915103	349,4597581	107,9648597	0,107303888	FALSE	359,4147377	0,093004267	359,4147377	332,6235732	123,3319091	0,122576858	FALSE	33,1%	323,4085124	132,5469699	0,131735503	FALSE	32,1%
4032	3	1006,159816	Empty	547,6325492	358,3667228	107,9648597	0,107303888	FALSE	336,9876281	0,093004267	336,9876281	375,3920061	123,3319091	0,122576858	FALSE	37,3%	407,2551638	132,5469699	0,131735503	FALSE	40,5%
4033	1	1020,372288	Empty	479,2427075	312,3483719	120,0749659	0,117677604	FALSE	319,6425468	0,014535381	319,6425468	319,1252172	113,2981207	0,111036062	FALSE	31,3%	317,4491563	114,9741815	0,112678659	FALSE	31,1%
4033	2	1020,372288	Empty	508,0335872	336,0198198	120,0749659	0,117677604	FALSE	338,1945629	0,014535381	338,1945629	338,2969137	113,2981207	0,111036062	FALSE	33,2%	340,1240961	114,9741815	0,112678659	FALSE	33,3%
4033	3	1020,372288	Empty	555,6615248	372,0040964	120,0749659	0,117677604	FALSE	362,5351785	0,014535381	362,5351785	362,9501573	113,2981207	0,111036062	FALSE	35,6%	362,7990358	114,9741815	0,112678659	FALSE	35,6%
4034	1	1442,371065	Empty	661,1199065	454,3280812	195,2141529	0,135342533	FALSE	451,9205221	0,052041678	451,9205221	441,0936673	235,8842756	0,163539245	FALSE	30,6%	485,413339	209,9577936	0,145564341	FALSE	33,7%
4034	2	1442,371065	Empty	712,1275632	515,7956715	195,2141529	0,135342533	FALSE	523,8480459	0,052041678	523,8480459	475,1255488	235,8842756	0,163539245	FALSE	32,9%	513,1512441	209,9577936	0,145564341	FALSE	35,6%
4034	3	1442,371065	Empty	682,2763934	472,2473119	195,2141529	0,135342533	FALSE	466,6024965	0,052041678	466,6024965	526,1518485	235,8842756	0,163539245	FALSE	36,5%	443,8064814	209,9577936	0,145564341	FALSE	30,8%
4035	1	921,395553	Non-Empty	872,5532708	306,2529341	0	0	TRUE	302,6057404	0	308,1093638	309,8020762	0	0	TRUE	33,6%	353,66698	0	0	TRUE	38,4%
4035	2	921,395553	Non-Empty	835,5284448	284,0020319	0	0	TRUE	295,128762	0	295,0354393	296,6563252	0	0	TRUE	32,2%	260,5967221	0	0	TRUE	28,3%
4035	3	921,395553	Non-Empty	901,2732665	331,140587	0	0	TRUE	323,6610507	0	318,2507499	314,9371516	0	0	TRUE	34,2%	307,131851	0	0	TRUE	33,3%
4036	1	1585,950812	Empty	825,3469125	523,6701194	209,9157862	0,132359582	FALSE	508,2384293	0,086021472	508,2384293	537,323846	217,2987452	0,137014807	FALSE	33,2%	446,0486659	249,2058843	0,157133426	FALSE	28,1%
4036	2	1585,950812	Empty	753,0308123	497,6347985	209,9157862	0,132359582	FALSE	528,4838877	0,086021472	528,4838877	490,2518395	217,2987452	0,137014807	FALSE	30,9%	660,8128383	249,2058843	0,157133426	FALSE	41,7%
4036	3	1585,950812	Empty	866,3083963	564,6458942	209,9157862	0,132359582	FALSE	549,2284951	0,086021472	549,2284951	558,366588	217,2987452	0,137014807	FALSE	35,2%	479,0893078	249,2058843	0,157133426	FALSE	30,2%
4037	1	505,7632588	Non-Empty	379,7245329	164,6539982	0	0	TRUE	151,4127909	0	172,8238495	160,1472522	0	0	TRUE	31,7%	143,743242	0	0	TRUE	28,4%
4037	2	505,7632588	Non-Empty	362,4485325	171,545462	0	0	TRUE	182,4717188	0	164,9610315	152,8611704	0	0	TRUE	30,2%	196,9814797	0	0	TRUE	38,9%
4037	3	505,7632588	Non-Empty	369,0781753	169,5637986	0	0	TRUE	171,8787492	0	167,9783778	192,7548362	0	0	TRUE	38,1%	165,0385371	0	0	TRUE	32,6%
4038	1	576,1543145	Non-Empty	551,2528355	226,0948846	0	0	TRUE	209,0533172	0	211,6667552	198,1756881	0	0	TRUE	34,4%	183,0137234	0	0	TRUE	31,8%
4038	2	576,1543145	Non-Empty	481,724464	179,2119594	0	0	TRUE	184,8158382	0	184,9696684	173,1802015	0	0	TRUE	30,1%	162,6788653	0	0	TRUE	28,2%
4038	3	576,1543145	Non-Empty	467,5261653	170,8474705	0	0	TRUE	182,2851591	0	179,5178909	204,7984249	0	0	TRUE	35,5%	230,4617258	0	0	TRUE	40,0%
4039	1	1331,453374	Empty	643,1679336	419,0481976	172,9675845	0,129908856	FALSE	421,3594541	0,017136885	421,3594541	425,1273023	176,9745063	0,13291829	FALSE	31,9%	494,147644	235,0309487	0,176522102	FALSE	37,1%
4039	2	1331,453374	Empty	669,2896715	446,4004207	172,9675845	0,129908856	FALSE	449,9421624	0,017136885	449,9421624	442,3934989	176,9745063	0,13291829	FALSE	33,2%	384,3370565	235,0309487	0,176522102	FALSE	28,9%
4039	3	1331,453374	Empty	698,2887468	466,004756	172,9675845	0,129908856	FALSE	460,1517577	0,017136885	460,1517577	463,932573	176,9745063	0,13291829	FALSE	34,8%	452,9686737	235,0309487	0,176522102	FALSE	34,0%
4040	1	1691,307387	Empty	832,7675587	565,4250633	231,0646736	0,13661897	FALSE	585,4129561	0,061929489	585,4129561	540,9879724	255,5017647	0,15106761	FALSE	32,0%	691,8984764	346,8617666	0,205084995	FALSE	40,9%
4040	2	1691,307387	Empty	849,1205759	554,5363933	231,0646736	0,13661897	FALSE	547,2825983	0,061929489	547,2825983	551,6113277	255,5017647	0,15106761	FALSE	32,6%	576,5820637	346,8617666	0,205084995	FALSE	34,1%
4040	3	1691,307387	Empty	871,4104153	571,3459299	231,0646736	0,13661897	FALSE	558,6118323	0,061929489	558,6118323	598,7080866	255,5017647	0,15106761	FALSE	35,4%	422,8268467	346,8617666	0,205084995	FALSE	25,0%
4041	1	549,7261848	Non-Empty	444,3468694	162,3981439	0	0	TRUE	166,2979501	0	173,5763573	164,3993153	0	0	TRUE	29,9%	171,3432264	0	0	TRUE	31,2%
4041	2	549,7261848	Non-Empty	497,681205	216,1248675	0	0	TRUE	220,4170617	0	194,4104856	184,1319361	0	0	TRUE	33,5%	171,3432264	0	0	TRUE	31,2%
4041	3	549,7261848	Non-Empty	465,2437057	171,2031735	0	0	TRUE	163,011173	0	181,739342	201,1949334	0	0	TRUE	36,6%	207,0397319	0	0	TRUE	37,7%
4042	1	1493,436324	Empty	802,2223926	536,7632207	187,6039153	0,125618958	FALSE	531,6984687	0,015099348	531,6984687	517,0724727	196,5936917	0,131638483	FALSE	34,6%	535,6891161	185,4167977	0,124154472	FALSE	35,9%
4042	2	1493,436324	Empty	707,0951813	452,3369809	187,6039153	0,125618958	FALSE	457,9732004	0,015099348	457,9732004	455,7582251	196,5936917	0,131638483	FALSE	30,5%	454,5240985	185,4167977	0,124154472	FALSE	30,4%
4042	3	1493,436324	Empty	765,3020095	504,336122	187,6039153	0,125618958	FALSE	503,7646544	0,015099348	503,7646544	520,6056258	196,5936917	0,131638483	FALSE	34,9%	503,223109	185,4167977	0,124154472	FALSE	33,7%
4043	1	668,4203148	Non-Empty	616,5283534	237,2444323	0	0	TRUE	250,3290849	0	223,2968098	218,6795939	0	0	TRUE	32,7%	187,9932135	0	0	TRUE	28,1%
4043	2	668,4203148	Non-Empty	610,2576387	211,1932343	0	0	TRUE	204,4974035	0	221,0256561	216,455402	0	0	TRUE	32,4%	208,8813484	0	0	TRUE	31,3%
4043	3	668,4203148	Non-Empty	618,7400436	219,9826482	0	0	TRUE	213,5938264	0	224,0978489	233,2853189	0	0	TRUE	34,9%	271,5457529	0	0	TRUE	40,6%
4044	1	1529,480214	Empty	744,0602387	526,2653659	221,6944771	0,144947594	FALSE	513,5575052	0,042109801	513,5575052	492,383883	265,2430143	0,173420363	FALSE	32,2%	575,8043158	279,9636906	0,18304499	FALSE	37,6%
4044	2	1529,480214	Empty	731,5392246	531,0862824	221,6944771	0,144947594	FALSE	535,7203522	0,042109801	535,7203522	484,098024	265,2430143	0,173420363	FALSE	31,7%	539,8165461	279,9636906	0,18304499	FALSE	35,3%
4044	3	1529,480214	Empty	669,1417865	472,1285655	221,6944771	0,144947594	FALSE	480,2023565	0,042109801	480,2023565	552,9983516	265,2430143	0,173420363	FALSE	36,2%	413,859352	279,9636906	0,18304499	FALSE	27,1%
4045	1	713,1519341	Non-Empty	531,1854976	198,178212	0	0	TRUE	207,7753774	0	217,5896141	202,6247151	0	0	TRUE	28,4%	222,3807106	0	0	TRUE	31,2%
4045	2	713,1519341	Non-Empty	647,746656	303,2621032	0	0	TRUE	301,3820014	0	265,3365831	247,0878483	0	0	TRUE	34,6%	207,0441099	0	0	TRUE	29,0%
4045	3	713,1519341	Non-Empty	562,0331333	211,7116188	0	0	TRUE	203,9945553	0	230,2257369	263,4393706	0	0	TRUE	36,9%	283,7271136	0	0	TRUE	39,8%
4046	1	912,7496099	Empty	422,1602085	255,155891	64,35516845	0,070506925	FALSE	273,0502363	0,034901932	273,0502363	244,7092253	74,80183413	0,081952195	FALSE	26,8%	319,932853	115,7025127	0,126762599	FALSE	35,1%
4046	2	912,7496099	Empty	574,3453147	370,4910176	64,35516845	0,070506925	FALSE	351,5353833	0,034901932	351,5353833	332,9247858	74,80183413	0,081952195	FALSE	36,5%	282,2936938	115,7025127	0,126762599	FALSE	30,9%

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4062	1	845,7179036	Non-Empty	797,9318904	323,827363	0	0	TRUE	322,0031466	0	298,2575634	286,8512859	0	0	TRUE	33,9%	321,1586976	0	0	TRUE	38,0%
4062	2	845,7179036	Non-Empty	722,678053	259,0667888	0	0	TRUE	267,7358356	0	270,1285634	259,7980245	0	0	TRUE	30,7%	289,0428278	0	0	TRUE	34,2%
4062	3	845,7179036	Non-Empty	741,9488929	262,8237517	0	0	TRUE	255,9789215	0	277,3317769	299,0685931	0	0	TRUE	35,4%	235,5163782	0	0	TRUE	27,8%
4063	1	1058,667632	Empty	479,4440427	329,8368742	136,2844942	0,128732087	FALSE	330,4243912	0,048006504	330,4243912	318,5713978	138,544207	0,130866575	FALSE	30,1%	378,0955828	168,7791958	0,159426047	FALSE	35,7%
4063	2	1058,667632	Empty	540,3271014	379,9516183	136,2844942	0,128732087	FALSE	369,7708206	0,048006504	369,7708206	359,0257562	138,544207	0,130866575	FALSE	33,9%	327,6828384	168,7791958	0,159426047	FALSE	31,0%
4063	3	1058,667632	Empty	489,4805442	348,8791393	136,2844942	0,128732087	FALSE	358,4724199	0,048006504	358,4724199	381,0704777	138,544207	0,130866575	FALSE	36,0%	352,8892106	168,7791958	0,159426047	FALSE	33,3%
4064	1	911,7003638	Non-Empty	812,8346629	345,9088664	0	0	TRUE	331,9583111	0	326,3688645	318,1117537	0	0	TRUE	34,9%	267,0637429	0	0	TRUE	29,3%
4064	2	911,7003638	Non-Empty	691,3986365	248,9414257	0	0	TRUE	259,4594561	0	277,6099473	270,5864338	0	0	TRUE	29,7%	322,3183104	0	0	TRUE	35,4%
4064	3	911,7003638	Non-Empty	766,3927881	316,8500718	0	0	TRUE	320,2825967	0	307,721552	323,0021763	0	0	TRUE	35,4%	322,3183104	0	0	TRUE	35,4%
4065	1	626,6881287	Non-Empty	618,8492992	256,1513217	0	0	TRUE	245,8623288	0	230,3117974	217,7291342	0	0	TRUE	34,7%	187,2861074	0	0	TRUE	29,9%
4065	2	626,6881287	Non-Empty	535,9086318	188,7933568	0	0	TRUE	194,0870664	0	199,4444857	188,5482016	0	0	TRUE	30,1%	244,912602	0	0	TRUE	39,1%
4065	3	626,6881287	Non-Empty	529,1571513	181,7434501	0	0	TRUE	186,7387335	0	196,9318456	220,4107929	0	0	TRUE	35,2%	194,4894193	0	0	TRUE	31,0%
4066	1	1087,625715	Empty	533,3933496	382,1273179	167,0413874	0,153583522	FALSE	380,170165	0,069294985	380,170165	362,2167964	185,2093533	0,170287766	FALSE	33,3%	376,4858245	179,1567434	0,164722791	FALSE	34,6%
4066	2	1087,625715	Empty	483,9500998	346,8088365	167,0413874	0,153583522	FALSE	358,976452	0,069294985	358,976452	328,6408706	185,2093533	0,170287766	FALSE	30,2%	386,943764	179,1567434	0,164722791	FALSE	35,6%
4066	3	1087,625715	Empty	518,2089021	358,6895607	167,0413874	0,153583522	FALSE	348,4790981	0,069294985	348,4790981	396,7680481	185,2093533	0,170287766	FALSE	36,5%	324,1961266	179,1567434	0,164722791	FALSE	29,8%
4067	1	1560,198429	Empty	779,7681682	500,235117	177,1473381	0,113541544	FALSE	516,3984776	0,042748663	516,3984776	503,3998383	173,9826168	0,111513134	FALSE	32,3%	337,7749177	339,6075374	0,217669452	FALSE	21,6%
4067	2	1560,198429	Empty	791,3382611	492,9369618	177,1473381	0,113541544	FALSE	490,2320743	0,042748663	490,2320743	510,8692159	173,9826168	0,111513134	FALSE	32,7%	643,3807956	339,6075374	0,217669452	FALSE	41,2%
4067	3	1560,198429	Empty	876,1812357	567,0263506	177,1473381	0,113541544	FALSE	553,5678773	0,042748663	553,5678773	545,9293752	173,9826168	0,111513134	FALSE	35,0%	579,042716	339,6075374	0,217669452	FALSE	37,1%
4068	1	840,59731	Non-Empty	721,9086045	268,7913036	0	0	TRUE	285,3561726	0	269,7468932	267,1381915	0	0	TRUE	31,8%	306,4677693	0	0	TRUE	36,5%
4068	2	840,59731	Non-Empty	747,9815725	271,4510794	0	0	TRUE	264,6027561	0	279,4892651	276,7863456	0	0	TRUE	32,9%	315,2239913	0	0	TRUE	37,5%
4068	3	840,59731	Non-Empty	779,7536423	300,354927	0	0	TRUE	290,6383814	0	291,3611517	296,6727729	0	0	TRUE	35,3%	218,9055495	0	0	TRUE	26,0%
4069	1	845,4605441	Non-Empty	729,6820144	295,8998304	0	0	TRUE	308,1863649	0	282,51443	269,6207956	0	0	TRUE	31,9%	268,0728555	0	0	TRUE	31,7%
4069	2	845,4605441	Non-Empty	749,3265079	277,863375	0	0	TRUE	252,4689607	0	290,1202812	276,8795245	0	0	TRUE	32,7%	268,0728555	0	0	TRUE	31,7%
4069	3	845,4605441	Non-Empty	704,6581774	271,6973387	0	0	TRUE	284,8052185	0	272,8258329	298,9602241	0	0	TRUE	35,4%	309,3148332	0	0	TRUE	36,6%
4070	1	676,3688254	Non-Empty	649,7066836	250,0456494	0	0	TRUE	241,5842568	0	237,5400039	235,275652	0	0	TRUE	34,8%	262,0929199	0	0	TRUE	38,8%
4070	2	676,3688254	Non-Empty	567,3501032	191,2722602	0	0	TRUE	206,3940587	0	207,4295203	205,4521968	0	0	TRUE	30,4%	202,9106476	0	0	TRUE	30,0%
4070	3	676,3688254	Non-Empty	632,9109631	235,0509158	0	0	TRUE	228,3905099	0	231,3993013	235,6409767	0	0	TRUE	34,8%	211,3652579	0	0	TRUE	31,3%
4071	1	862,737947	Non-Empty	769,8779218	305,7968268	0	0	TRUE	309,1297911	0	293,2488856	286,0202463	0	0	TRUE	33,2%	290,8105439	0	0	TRUE	33,7%
4071	2	862,737947	Non-Empty	741,2466451	268,2619735	0	0	TRUE	262,6913612	0	282,341436	275,3833328	0	0	TRUE	31,9%	281,1168591	0	0	TRUE	32,6%
4071	3	862,737947	Non-Empty	753,8555582	288,6791467	0	0	TRUE	290,9167946	0	287,1459177	301,3343678	0	0	TRUE	34,9%	290,8105439	0	0	TRUE	33,7%
4072	1	623,0914415	Non-Empty	569,4337179	237,2751795	0	0	TRUE	221,0978952	0	225,8442556	214,2878998	0	0	TRUE	34,4%	192,3121733	0	0	TRUE	30,9%
4072	2	623,0914415	Non-Empty	481,7278345	186,3749925	0	0	TRUE	207,0034046	0	191,0590482	181,2826369	0	0	TRUE	29,1%	230,774608	0	0	TRUE	37,0%
4072	3	623,0914415	Non-Empty	519,8736516	199,4412695	0	0	TRUE	194,9901417	0	206,1881377	227,5209047	0	0	TRUE	36,5%	200,0046602	0	0	TRUE	32,1%
4073	1	1011,46937	Empty	534,2728646	361,3624847	123,8555321	0,122451095	FALSE	372,1831557	0,087766773	372,1831557	333,8613395	151,3566774	0,149640396	FALSE	33,0%	360,4086261	124,8093908	0,123394138	FALSE	35,6%
4073	2	1011,46937	Empty	512,9235626	320,7428754	123,8555321	0,122451095	FALSE	312,2932391	0,087766773	312,2932391	320,5203914	151,3566774	0,149640396	FALSE	31,7%	313,9042872	124,8093908	0,123394138	FALSE	31,0%
4073	3	1011,46937	Empty	515,4660954	329,3640098	123,8555321	0,122451095	FALSE	326,9929751	0,087766773	326,9929751	357,0876391	151,3566774	0,149640396	FALSE	35,3%	337,1564567	124,8093908	0,123394138	FALSE	33,3%
4074	1	833,5693579	Non-Empty	664,6566185	241,9625595	0	0	TRUE	248,6119786	0	261,1413297	243,6910844	0	0	TRUE	29,2%	300,4726755	0	0	TRUE	36,0%
4074	2	833,5693579	Non-Empty	779,9049834	354,7222492	0	0	TRUE	358,882993	0	306,4220211	285,9459844	0	0	TRUE	34,3%	310,1653425	0	0	TRUE	37,2%
4074	3	833,5693579	Non-Empty	677,0381904	236,8845493	0	0	TRUE	226,0743863	0	266,006072	303,9322891	0	0	TRUE	36,5%	222,9313399	0	0	TRUE	26,7%
4075	1	1213,653617	Empty	688,169375	418,9562658	101,9940129	0,084038816	FALSE	394,2145149	0,102767582	394,2145149	418,6352827	98,64458957	0,081279031	FALSE	34,5%	440,1161467	160,2880595	0,132070681	FALSE	36,3%
4075	2	1213,653617	Empty	613,6122474	376,308275	101,9940129	0,084038816	FALSE	383,4756235	0,102767582	383,4756235	373,2798349	98,64458957	0,081279031	FALSE	30,8%	413,4424408	160,2880595	0,132070681	FALSE	34,1%
4075	3	1213,653617	Empty	645,2859941	418,3890758	101,9940129	0,084038816	FALSE	435,9634782	0,102767582	435,9634782	421,7384991	98,64458957	0,081279031	FALSE	34,7%	360,0950291	160,2880595	0,132070681	FALSE	29,7%
4076	1	880,9065975	Non-Empty	764,9443223	270,033191	0	0	TRUE	268,8758728	0	285,2652689	284,907466	0	0	TRUE	32,3%	265,4787006	0	0	TRUE	30,1%
4076	2	880,9065975	Non-Empty	770,9791755	285,2148937	0	0	TRUE	293,2044249	0	287,515804	287,1551783	0	0	TRUE	32,6%	337,8819826	0	0	TRUE	38,4%
4076	3	880,9065975	Non-Empty	826,2445389	325,6585128	0	0	TRUE	318,8262998	0	308,1255246	308,8439532	0	0	TRUE	35,1%	277,5459143	0	0	TRUE	31,5%
4077	1	705,9714931	Non-Empty	544,1813653	217,9628944	0	0	TRUE	228,0110724	0	224,0394971	207,8960161	0	0	TRUE	29,4%	276,2497147	0	0	TRUE	39,1%
4077	2	705,9714931	Non-Empty	629,3420311	284,7870553	0	0	TRUE	276,4987285	0	259,1001477	240,4303223	0	0	TRUE	34,1%	207,187286	0	0	TRUE	29,3%
4077	3	705,9714931	Non-Empty	541,2480434	203,2215434	0	0	TRUE	201,4616922	0	222,8318483	257,6451547	0	0	TRUE	36,5%	222,5344924	0	0	TRUE	31,5%
4078	1	1006,501668	Empty	453,0515941	328,1491027	122,9041444	0,122110224	FALSE	348,837348	0,19379171	348,837348	308,0328336	141,0220665	0,14011111	FALSE	30,6%	417,3299601	181,6867248	0,180513089	FALSE	41,5%
4078	2	1006,501668	Empty	439,4493472	316,5452028	122,9041444	0,122110224	FALSE	339,2317951	0,19379171	339,2317951	298,7845743	141,0220665	0,14011111	FALSE	29,7%	257,7626224	181,6867248	0,180513089	FALSE	25,6%
4078	3	1006,501668	Empty	550,7729374	361,807363	122,9041444	0,122110224	FALSE	318,4325253	0,19379171	318,4325253										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4093	1	867,6267535	Non-Empty	809,203529	302,5282142	0	0	TRUE	284,3712059	0	300,9138289	299,3573	0	0	TRUE	34,5%	273,9873958	0	0	TRUE	31,6%
4093	2	867,6267535	Non-Empty	697,8557027	249,5712071	0	0	TRUE	289,805018	0	259,5075578	258,16521	0	0	TRUE	29,8%	246,5886563	0	0	TRUE	28,4%
4093	3	867,6267535	Non-Empty	826,1224413	315,5273322	0	0	TRUE	293,4505296	0	307,2053668	310,1042435	0	0	TRUE	35,7%	347,0507014	0	0	TRUE	40,0%
4094	1	1348,369872	Empty	703,3288796	454,3969544	177,8372376	0,131890545	FALSE	433,1999727	0,120167936	433,1999727	455,4548545	202,7372641	0,150357308	FALSE	33,8%	436,9717179	174,4079139	0,129347234	FALSE	32,4%
4094	2	1348,369872	Empty	629,3945981	432,4772403	177,8372376	0,131890545	FALSE	463,2948259	0,120167936	463,2948259	407,5772138	202,7372641	0,150357308	FALSE	30,2%	486,9113428	174,4079139	0,129347234	FALSE	36,1%
4094	3	1348,369872	Empty	698,851225	461,4956776	177,8372376	0,131890545	FALSE	451,8750736	0,120167936	451,8750736	485,337804	202,7372641	0,150357308	FALSE	36,0%	424,4868116	174,4079139	0,129347234	FALSE	31,5%
4095	1	766,4582617	Non-Empty	662,7440406	244,628712	0	0	TRUE	263,002881	0	244,6934335	243,0594554	0	0	TRUE	31,7%	306,5833047	0	0	TRUE	40,0%
4095	2	766,4582617	Non-Empty	686,0585158	245,9114595	0	0	TRUE	242,2539007	0	253,301431	251,6099716	0	0	TRUE	32,8%	268,2603916	0	0	TRUE	35,0%
4095	3	766,4582617	Non-Empty	727,1241979	275,9180902	0	0	TRUE	261,20148	0	268,4633972	271,7888346	0	0	TRUE	35,5%	191,6145654	0	0	TRUE	25,0%
4096	1	730,7889161	Non-Empty	586,9943948	233,3335468	0	0	TRUE	242,4983593	0	235,7923589	222,098362	0	0	TRUE	30,4%	222,1025137	0	0	TRUE	30,4%
4096	2	730,7889161	Non-Empty	649,6066571	279,4637273	0	0	TRUE	272,1464583	0	260,9433538	245,7886749	0	0	TRUE	33,6%	257,9254998	0	0	TRUE	35,3%
4096	3	730,7889161	Non-Empty	582,6648462	217,991642	0	0	TRUE	216,1440985	0	234,0532035	262,9018792	0	0	TRUE	36,0%	250,7609026	0	0	TRUE	34,3%
4097	1	1324,651889	Empty	715,5684335	477,1924007	171,9095765	0,129777172	FALSE	455,9499595	0,060583798	455,9499595	453,6898229	187,119119	0,141259089	FALSE	34,2%	441,5506297	171,5795844	0,129528056	FALSE	33,3%
4097	2	1324,651889	Empty	639,5179993	428,897527	171,9095765	0,129777172	FALSE	435,4106464	0,060583798	435,4106464	405,4717819	187,119119	0,141259089	FALSE	30,6%	427,307061	171,5795844	0,129528056	FALSE	32,3%
4097	3	1324,651889	Empty	620,9662311	418,5619614	171,9095765	0,129777172	FALSE	433,2912833	0,060583798	433,2912833	465,4902843	187,119119	0,141259089	FALSE	35,1%	455,7941984	171,5795844	0,129528056	FALSE	34,4%
4098	1	944,0307374	Non-Empty	647,063544	369,7030004	0	0	TRUE	365,6392077	0,014171774	342,214443	319,2494471	22,96499592	0,024326534	FALSE	33,8%	323,6676814	18,54676164	0,019646354	FALSE	34,3%
4098	2	944,0307374	Non-Empty	585,9773775	293,2488742	0	0	TRUE	291,2825219	0,014171774	301,6032792	289,1106376	22,96499592	0,024326534	FALSE	30,6%	305,6861435	18,54676164	0,019646354	FALSE	32,4%
4098	3	944,0307374	Non-Empty	583,2762685	289,8115627	0	0	TRUE	287,1090078	0,014171774	300,2130151	335,6706527	22,96499592	0,024326534	FALSE	35,6%	314,6769125	18,54676164	0,019646354	FALSE	33,3%
4099	1	704,0697259	Non-Empty	573,4011108	238,5041316	0	0	TRUE	261,063026	0	227,260682	217,9131875	0	0	TRUE	31,0%	288,0285242	0	0	TRUE	40,9%
4099	2	704,0697259	Non-Empty	604,1832595	229,0740755	0	0	TRUE	211,420765	0	239,460819	229,6115187	0	0	TRUE	32,6%	232,0229779	0	0	TRUE	33,0%
4099	3	704,0697259	Non-Empty	598,8529764	236,4915188	0	0	TRUE	231,5859349	0	237,3482249	256,5450197	0	0	TRUE	36,4%	184,0182238	0	0	TRUE	26,1%
4100	1	667,4140119	Non-Empty	629,2918194	264,1893367	0	0	TRUE	240,6321315	0	248,2185612	234,1896802	0	0	TRUE	35,1%	194,6624201	0	0	TRUE	29,2%
4100	2	667,4140119	Non-Empty	504,9058856	193,8055995	0	0	TRUE	224,2505909	0	199,1556359	187,899706	0	0	TRUE	28,2%	236,3757959	0	0	TRUE	35,4%
4100	3	667,4140119	Non-Empty	557,8521393	209,4190757	0	0	TRUE	202,5312896	0	220,0398148	245,3246257	0	0	TRUE	36,8%	236,3757959	0	0	TRUE	35,4%
4101	1	1319,035882	Empty	715,4441061	459,0761677	128,6027439	0,097497533	FALSE	437,354922	0,068982604	437,354922	443,1817807	147,6551083	0,111941692	FALSE	33,6%	417,9123587	135,0863359	0,102412935	FALSE	31,7%
4101	2	1319,035882	Empty	654,6667058	428,7822875	128,6027439	0,097497533	FALSE	437,5445618	0,068982604	437,5445618	405,5332261	147,6551083	0,111941692	FALSE	30,7%	470,1514035	135,0863359	0,102412935	FALSE	35,6%
4101	3	1319,035882	Empty	652,8651482	431,1774269	128,6027439	0,097497533	FALSE	444,1363982	0,068982604	444,1363982	470,3208752	147,6551083	0,111941692	FALSE	35,7%	430,9721199	135,0863359	0,102412935	FALSE	32,7%
4102	1	928,2095869	Non-Empty	779,4051182	273,4937951	0	0	TRUE	280,7779339	0	293,1568536	278,3750023	0	0	TRUE	30,0%	345,3803114	0	0	TRUE	37,2%
4102	2	928,2095869	Non-Empty	905,7976423	382,6452553	0	0	TRUE	372,6883302	0	340,696745	323,5177892	0	0	TRUE	34,9%	323,7940419	0	0	TRUE	34,9%
4102	3	928,2095869	Non-Empty	782,5932123	272,0705365	0	0	TRUE	274,7433228	0	294,3559882	326,3167954	0	0	TRUE	35,2%	259,0352335	0	0	TRUE	27,9%
4103	1	791,5639647	Non-Empty	683,7812382	283,6082439	0	0	TRUE	262,9441219	0	280,4306664	264,3686446	0	0	TRUE	33,4%	263,8546549	0	0	TRUE	33,3%
4103	2	791,5639647	Non-Empty	615,3479985	254,6681292	0	0	TRUE	273,4971322	0	252,3649957	237,9104708	0	0	TRUE	30,1%	285,8425428	0	0	TRUE	36,1%
4103	3	791,5639647	Non-Empty	630,9613447	253,2875916	0	0	TRUE	255,1227107	0	258,7683026	289,2848494	0	0	TRUE	36,5%	241,866767	0	0	TRUE	30,6%
4104	1	887,4451102	Empty	484,133744	300,1371971	74,90307583	0,084403052	FALSE	292,96889	0,043758889	292,96889	292,295503	77,86735346	0,08774329	FALSE	32,9%	249,5939372	111,5551807	0,125703753	FALSE	28,1%
4104	2	887,4451102	Empty	468,4522639	292,0694836	74,90307583	0,084403052	FALSE	292,5149429	0,043758889	292,5149429	282,8278174	77,86735346	0,08774329	FALSE	31,9%	277,3265969	111,5551807	0,125703753	FALSE	31,3%
4104	3	887,4451102	Empty	465,3438213	295,2384295	74,90307583	0,084403052	FALSE	301,9612774	0,043758889	301,9612774	312,3217898	77,86735346	0,08774329	FALSE	35,2%	360,524576	111,5551807	0,125703753	FALSE	40,6%
4105	1	682,4916264	Non-Empty	496,7519996	191,3278451	0	0	TRUE	183,027472	0	215,4120698	190,828624	0	0	TRUE	28,0%	194,9976075	0	0	TRUE	28,6%
4105	2	682,4916264	Non-Empty	602,5966648	321,6616682	0	0	TRUE	337,8504531	0	261,310664	231,4891384	0	0	TRUE	33,9%	212,7246628	0	0	TRUE	31,2%
4105	3	682,4916264	Non-Empty	474,5143061	169,502113	0	0	TRUE	161,6137013	0	205,7688926	260,173864	0	0	TRUE	38,1%	274,7693561	0	0	TRUE	40,3%
4106	1	1090,232459	Empty	534,8133323	382,1867343	173,5123832	0,159151731	FALSE	373,8336419	0,082236611	373,8336419	343,0672032	181,4006287	0,166387111	FALSE	31,5%	431,0221349	204,0135431	0,18712848	FALSE	39,5%
4106	2	1090,232459	Empty	557,4464591	398,64788	173,5123832	0,159151731	FALSE	384,1227884	0,082236611	384,1227884	357,5856961	181,4006287	0,166387111	FALSE	32,8%	380,3136484	204,0135431	0,18712848	FALSE	34,9%
4106	3	1090,232459	Empty	430,7931297	309,3978354	173,5123832	0,159151731	FALSE	332,2760286	0,082236611	332,2760286	389,5795595	181,4006287	0,166387111	FALSE	35,7%	278,8966755	204,0135431	0,18712848	FALSE	25,6%
4107	1	643,9530009	Non-Empty	618,9319799	242,8567711	0	0	TRUE	229,5768289	0	230,0722616	217,0883721	0	0	TRUE	33,7%	207,495967	0	0	TRUE	32,2%
4107	2	643,9530009	Non-Empty	584,9787492	215,0628794	0	0	TRUE	207,9422763	0	217,4510095	205,1793872	0	0	TRUE	31,9%	186,0308669	0	0	TRUE	28,9%
4107	3	643,9530009	Non-Empty	528,4280718	186,0333505	0	0	TRUE	206,4338958	0	196,4297298	221,6852416	0	0	TRUE	34,4%	250,426167	0	0	TRUE	38,9%
4108	1	723,9063862	Non-Empty	587,8186903	229,4567556	0	0	TRUE	213,9332913	0	242,8215082	234,4330438	0	0	TRUE	32,4%	295,7897062	0	0	TRUE	40,9%
4108	2	723,9063862	Non-Empty	555,8260191	241,0532283	0	0	TRUE	269,1189079	0	229,6056836	221,6737705	0	0	TRUE	30,6%	249,0860684	0	0	TRUE	34,4%
4108	3	723,9063862	Non-Empty	608,777088	253,3964023	0	0	TRUE	240,854187	0	251,4791943	267,7995719	0	0	TRUE	37,0%	179,0306116	0	0	TRUE	24,7%
4109	1	1321,957411	Empty	640,288731	407,971484	163,5745545	0,12373663	FALSE	422,2958734	0,035533039	422,2958734	412,5819136	158,9641249	0,120249052	FALSE	31,2%	538,0059231	258,0162741	0,195177448	FALSE	40,7%
4109	2	1321,957411	Empty	700,8717493	445,7893962	163,5745545	0,12373663	FALSE	437,3486794	0,035533039	437,3486794	451,6197045	158,9641249	0,120249052	FALSE	34,2%	430,4047385	258,0162741	0,195177448	FALSE	32,6%
4109	3																				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4124	1	1035,892001	Non-Empty	741,0434579	319,8312079	0	0	TRUE	298,0809037	0	343,5745445	343,2808349	0	0	TRUE	33,1%	276,9216241	0	0	TRUE	26,7%
4124	2	1035,892001	Non-Empty	703,597555	322,3435828	0	0	TRUE	340,5515563	0	326,2132698	325,9344018	0	0	TRUE	31,5%	389,7415451	0	0	TRUE	37,6%
4124	3	1035,892001	Non-Empty	789,6368258	393,7172108	0	0	TRUE	397,2595415	0	366,1041871	366,6767647	0	0	TRUE	35,4%	369,2288322	0	0	TRUE	35,6%
4125	1	787,2024409	Non-Empty	684,9267447	254,3211739	0	0	TRUE	279,8669093	0	250,1251015	243,7086968	0	0	TRUE	31,0%	281,1437289	0	0	TRUE	35,7%
4125	2	787,2024409	Non-Empty	742,3700638	272,9008008	0	0	TRUE	259,582844	0	271,0986488	264,1480161	0	0	TRUE	33,6%	265,078373	0	0	TRUE	33,7%
4125	3	787,2024409	Non-Empty	728,359551	259,9804662	0	0	TRUE	247,7526876	0	265,9822907	279,345728	0	0	TRUE	35,5%	240,9803391	0	0	TRUE	30,6%
4126	1	1327,892442	Empty	656,2362183	430,1482266	192,9611868	0,145313868	FALSE	425,5885103	0,088265416	425,5885103	430,5662592	194,8214067	0,146714749	FALSE	32,4%	391,378825	207,6648009	0,156386763	FALSE	29,5%
4126	2	1327,892442	Empty	683,4618235	446,987193	192,9611868	0,145313868	FALSE	432,040838	0,088265416	432,040838	448,4293802	194,8214067	0,146714749	FALSE	33,8%	461,2679009	207,6648009	0,156386763	FALSE	34,7%
4126	3	1327,892442	Empty	652,7792266	450,7570223	192,9611868	0,145313868	FALSE	470,2630936	0,088265416	470,2630936	448,8968025	194,8214067	0,146714749	FALSE	33,8%	475,2457161	207,6648009	0,156386763	FALSE	35,8%
4127	1	650,3668114	Non-Empty	594,6589273	216,2150914	0	0	TRUE	215,670839	0	216,7781491	214,0359835	0	0	TRUE	32,9%	267,3730225	0	0	TRUE	41,1%
4127	2	650,3668114	Non-Empty	598,5099318	212,9324427	0	0	TRUE	205,2545371	0	218,182002	215,4220781	0	0	TRUE	33,1%	166,2048518	0	0	TRUE	25,6%
4127	3	650,3668114	Non-Empty	590,8967026	221,2192772	0	0	TRUE	229,4414353	0	215,4066603	220,9087498	0	0	TRUE	34,0%	216,7889371	0	0	TRUE	33,3%
4128	1	552,2059173	Non-Empty	414,6206851	185,2785017	0	0	TRUE	181,890376	0	186,1327821	169,5276169	0	0	TRUE	30,7%	176,989076	0	0	TRUE	32,1%
4128	2	552,2059173	Non-Empty	440,2984125	203,2950059	0	0	TRUE	192,245657	0	197,6601057	180,026572	0	0	TRUE	32,6%	155,7503869	0	0	TRUE	28,2%
4128	3	552,2059173	Non-Empty	375,1489925	163,6324096	0	0	TRUE	178,0698843	0	168,4130295	202,6517284	0	0	TRUE	36,7%	219,4664543	0	0	TRUE	39,7%
4129	1	1291,170724	Empty	676,1719757	427,4358502	134,3546303	0,104056441	FALSE	429,1440695	0,011875517	429,1440695	434,3103719	131,2645223	0,101663181	FALSE	33,6%	467,0191979	145,3571154	0,112577766	FALSE	36,2%
4129	2	1291,170724	Empty	627,7682271	388,708151	134,3546303	0,104056441	FALSE	400,0924198	0,011875517	400,0924198	403,2202783	131,2645223	0,101663181	FALSE	31,2%	384,6040453	145,3571154	0,112577766	FALSE	29,8%
4129	3	1291,170724	Empty	738,5635553	475,0267224	134,3546303	0,104056441	FALSE	461,9342342	0,011875517	461,9342342	453,6400734	131,2645223	0,101663181	FALSE	35,1%	439,5474804	145,3571154	0,112577766	FALSE	34,0%
4130	1	522,0492098	Non-Empty	409,8444901	155,1405419	0	0	TRUE	162,6380269	0	163,4955247	157,9148821	0	0	TRUE	30,2%	164,8576452	0	0	TRUE	31,6%
4130	2	522,0492098	Non-Empty	433,5026689	184,4368276	0	0	TRUE	197,5724196	0	172,9332662	167,0304823	0	0	TRUE	32,0%	192,3339194	0	0	TRUE	36,8%
4130	3	522,0492098	Non-Empty	465,3063506	182,4718403	0	0	TRUE	161,8387633	0	185,6204189	197,1038455	0	0	TRUE	37,8%	164,8576452	0	0	TRUE	31,6%
4131	1	767,1451913	Non-Empty	620,8662647	225,114627	0	0	TRUE	234,5604331	0	240,2206868	234,7588167	0	0	TRUE	30,6%	261,3351751	0	0	TRUE	34,1%
4131	2	767,1451913	Non-Empty	675,2071484	275,1475316	0	0	TRUE	280,2853586	0	261,2458336	255,3059173	0	0	TRUE	33,3%	210,7541734	0	0	TRUE	27,5%
4131	3	767,1451913	Non-Empty	686,6641096	266,8830327	0	0	TRUE	252,2993997	0	265,6786709	277,0804573	0	0	TRUE	36,1%	295,0558428	0	0	TRUE	38,5%
4132	1	841,2623646	Non-Empty	616,7758058	243,4510358	0	0	TRUE	284,08815	0	249,079887	232,0248456	0	0	TRUE	27,6%	270,0348331	0	0	TRUE	32,1%
4132	2	841,2623646	Non-Empty	786,8707497	342,9344726	0	0	TRUE	312,9600798	0	317,7713451	296,0128502	0	0	TRUE	35,2%	311,5786536	0	0	TRUE	37,0%
4132	3	841,2623646	Non-Empty	679,5014619	254,8768562	0	0	TRUE	244,2141348	0	274,4111325	313,2246688	0	0	TRUE	37,2%	259,648878	0	0	TRUE	30,9%
4133	1	773,7874281	Non-Empty	675,3411048	240,3053037	0	0	TRUE	227,1564329	0	256,2312942	238,2432024	0	0	TRUE	30,8%	270,8255998	0	0	TRUE	35,0%
4133	2	773,7874281	Non-Empty	748,017366	322,4780021	0	0	TRUE	318,8255686	0	283,8054079	263,881543	0	0	TRUE	34,1%	216,6604799	0	0	TRUE	28,0%
4133	3	773,7874281	Non-Empty	616,0897484	211,0041223	0	0	TRUE	227,8054266	0	233,750726	271,6626827	0	0	TRUE	35,1%	286,3013484	0	0	TRUE	37,0%
4134	1	665,8244511	Non-Empty	450,2296667	205,0860567	0	0	TRUE	216,7391024	0	208,7250461	202,7775015	0	0	TRUE	30,5%	215,9430652	0	0	TRUE	32,4%
4134	2	665,8244511	Non-Empty	505,3994128	233,5569432	0	0	TRUE	218,5111293	0	234,3015655	227,6252273	0	0	TRUE	34,2%	227,9399022	0	0	TRUE	34,2%
4134	3	665,8244511	Non-Empty	480,585339	227,1814513	0	0	TRUE	230,5742194	0	222,7978395	235,4217223	0	0	TRUE	35,4%	221,9414837	0	0	TRUE	33,3%
4135	1	1098,24697	Empty	555,6486803	405,0128421	158,7302889	0,144530596	FALSE	410,9855567	0,071556876	410,9855567	373,5280474	190,2150836	0,173198824	FALSE	34,0%	397,4608081	208,336461	0,189699099	FALSE	36,2%
4135	2	1098,24697	Empty	491,4841243	331,6163721	158,7302889	0,144530596	FALSE	328,3571729	0,071556876	328,3571729	330,3942072	190,2150836	0,173198824	FALSE	30,1%	397,4608081	208,336461	0,189699099	FALSE	36,2%
4135	3	1098,24697	Empty	520,9398239	361,6177556	158,7302889	0,144530596	FALSE	358,9042403	0,071556876	358,9042403	394,3247153	190,2150836	0,173198824	FALSE	35,9%	303,3253536	208,336461	0,189699099	FALSE	27,6%
4136	1	826,4227753	Non-Empty	623,2838642	252,1915613	0	0	TRUE	251,9671041	0	265,6467205	241,9296914	0	0	TRUE	29,3%	232,6821406	0	0	TRUE	28,2%
4136	2	826,4227753	Non-Empty	725,6647563	355,0294304	0	0	TRUE	355,2619504	0	309,281972	281,6691729	0	0	TRUE	34,1%	280,8232732	0	0	TRUE	34,0%
4136	3	826,4227753	Non-Empty	590,0776922	219,2017836	0	0	TRUE	219,1937208	0	251,4940828	302,8239109	0	0	TRUE	36,6%	312,9173615	0	0	TRUE	37,9%
4137	1	1022,40339	Non-Empty	821,8198872	315,7336502	0	0	TRUE	344,2729179	0	319,9321737	315,9191653	0	0	TRUE	30,9%	383,4012711	0	0	TRUE	37,5%
4137	2	1022,40339	Non-Empty	871,4502512	333,8408974	0	0	TRUE	330,8570482	0	339,253135	334,9977778	0	0	TRUE	32,8%	362,1012005	0	0	TRUE	35,4%
4137	3	1022,40339	Non-Empty	933,0097652	372,828842	0	0	TRUE	347,2734234	0	363,2180809	371,4864465	0	0	TRUE	36,3%	276,900918	0	0	TRUE	27,1%
4138	1	1568,160538	Empty	765,8226631	508,2414807	194,1701366	0,123820318	FALSE	515,2307639	0,075541587	515,2307639	487,9573322	231,766464	0,147795113	FALSE	31,1%	423,4033452	275,3418518	0,175582694	FALSE	27,0%
4138	2	1568,160538	Empty	803,4316417	549,5168796	194,1701366	0,123820318	FALSE	560,1725831	0,075541587	560,1725831	511,9205521	231,766464	0,147795113	FALSE	32,6%	564,5377936	275,3418518	0,175582694	FALSE	36,0%
4138	3	1568,160538	Empty	792,6176298	510,4021775	194,1701366	0,123820318	FALSE	492,7571909	0,075541587	492,7571909	568,2826535	231,766464	0,147795113	FALSE	36,2%	580,219399	275,3418518	0,175582694	FALSE	37,0%
4139	1	1508,238186	Empty	767,1665231	487,106669	173,0220457	0,114717985	FALSE	487,0821716	0,021834329	487,0821716	493,3148744	184,5701296	0,122374656	FALSE	32,9%	636,0040545	266,4973144	0,176694448	FALSE	42,2%
4139	2	1508,238186	Empty	772,7092808	491,5391826	173,0220457	0,114717985	FALSE	490,4044411	0,021834329	490,4044411	496,8790612	184,5701296	0,122374656	FALSE	32,9%	436,1170659	266,4973144	0,176694448	FALSE	28,9%
4139	3	1508,238186	Empty	808,4684524	529,5923346	173,0220457	0,114717985	FALSE	530,7515735	0,021834329	530,7515735	518,0442507	184,5701296	0,122374656	FALSE	34,3%	436,1170659	266,4973144	0,176694448	FALSE	28,9%
4140	1	730,7802132	Non-Empty	594,8858807	210,6461806	0	0	TRUE	210,9965478	0	230,6814545	240,1294159	0	0	TRUE	32,9%	240,9165538	0	0	TRUE	33,0%
4140	2	730,7802132	Non-Empty	599,6437165	209,1803158	0	0	TRUE	203,3069824	0	232,5264209	242,0499461	0	0	TRUE	33,1%	273,038761	0	0	TRUE	37,4%
4140	3	730,7802132	Non-Empty	690,0208178	310,9537168	0	0	TRUE	316,4766831	0	267,5723379	248,6008512	0	0	TRUE	34,0%	216,8248984	0	0	TRUE	29,7%
4141	1	1624,378315	Empty	767,9176083	516,5575051																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4155	1	727,3380416	Non-Empty	639,2305098	234,3510847	0	0	TRUE	245,9902924	0	235,1854379	232,2529021	0	0	TRUE	31,9%	248,3593313	0	0	TRUE	34,1%
4155	2	727,3380416	Non-Empty	640,7268318	233,8455634	0	0	TRUE	243,4829279	0	235,7359641	232,7965638	0	0	TRUE	32,0%	177,3995223	0	0	TRUE	24,4%
4155	3	727,3380416	Non-Empty	696,9365988	259,1413935	0	0	TRUE	237,8648212	0	256,4166395	262,2885756	0	0	TRUE	36,1%	301,579188	0	0	TRUE	41,5%
4156	1	895,8489676	Non-Empty	613,0754348	263,381398	0	0	TRUE	278,4224061	0	275,9839517	271,1584836	0	0	TRUE	30,3%	337,0520868	0	0	TRUE	37,6%
4156	2	895,8489676	Non-Empty	661,4412541	306,7420505	0	0	TRUE	316,7778918	0	297,7564599	292,5503083	0	0	TRUE	32,7%	248,3541692	0	0	TRUE	27,7%
4156	3	895,8489676	Non-Empty	715,5374136	325,7255192	0	0	TRUE	300,6486697	0	322,108556	332,1401756	0	0	TRUE	37,1%	310,4427115	0	0	TRUE	34,7%
4157	1	675,9392027	Non-Empty	512,9340461	187,1723007	0	0	TRUE	189,0677659	0	208,9999191	203,1189772	0	0	TRUE	30,0%	242,0029244	0	0	TRUE	35,8%
4157	2	675,9392027	Non-Empty	573,1150066	255,2663267	0	0	TRUE	265,0748575	0	233,5212313	226,9502967	0	0	TRUE	33,6%	183,5884254	0	0	TRUE	27,2%
4157	3	675,9392027	Non-Empty	572,8617819	233,5005753	0	0	TRUE	221,7965793	0	233,4180524	245,8699289	0	0	TRUE	36,4%	250,3478529	0	0	TRUE	37,0%
4158	1	766,2543522	Non-Empty	683,7339697	290,3308585	0	0	TRUE	296,8117577	0	266,5000401	256,1826275	0	0	TRUE	33,4%	278,6379462	0	0	TRUE	36,4%
4158	2	766,2543522	Non-Empty	636,5281234	231,2040287	0	0	TRUE	225,7639444	0	248,1005448	238,4954593	0	0	TRUE	31,1%	226,3933313	0	0	TRUE	29,5%
4158	3	766,2543522	Non-Empty	645,6442905	244,719465	0	0	TRUE	243,67865	0	251,6537673	271,5762654	0	0	TRUE	35,4%	261,2230746	0	0	TRUE	34,1%
4159	1	1343,665462	Empty	694,2079729	478,7751858	169,9781321	0,126503313	FALSE	471,6112972	0,149395485	471,6112972	427,8994458	175,399217	0,130537862	FALSE	31,8%	398,6699723	204,6286905	0,152291397	FALSE	29,7%
4159	2	1343,665462	Empty	708,1515386	468,7557621	169,9781321	0,126503313	FALSE	437,6288842	0,149395485	437,6288842	436,4940519	175,399217	0,130537862	FALSE	32,5%	398,6699723	204,6286905	0,152291397	FALSE	29,7%
4159	3	1343,665462	Empty	566,1126465	396,1345144	169,9781321	0,126503313	FALSE	434,4252809	0,149395485	434,4252809	479,2719646	175,399217	0,130537862	FALSE	35,7%	546,3255176	204,6286905	0,152291397	FALSE	40,7%
4160	1	1434,320574	Empty	757,0855252	517,9359949	204,1448786	0,142328627	FALSE	507,0230562	0,01226225	507,0230562	488,6558155	220,8454023	0,153972136	FALSE	34,1%	435,9209587	268,3299961	0,18707812	FALSE	30,4%
4160	2	1434,320574	Empty	687,7946749	463,5540422	204,1448786	0,142328627	FALSE	467,5500009	0,01226225	467,5500009	443,9324972	220,8454023	0,153972136	FALSE	31,0%	548,41669	268,3299961	0,18707812	FALSE	38,2%
4160	3	1434,320574	Empty	674,1501481	452,8305366	204,1448786	0,142328627	FALSE	459,7475166	0,01226225	459,7475166	501,732261	220,8454023	0,153972136	FALSE	35,0%	449,9829251	268,3299961	0,18707812	FALSE	31,4%
4161	1	885,1685539	Non-Empty	827,3187365	308,0839017	0	0	TRUE	300,7348164	0	302,5069085	294,9005923	0	0	TRUE	33,3%	282,086682	0	0	TRUE	31,9%
4161	2	885,1685539	Non-Empty	796,8707451	286,9799623	0	0	TRUE	288,974929	0	291,373681	284,0473017	0	0	TRUE	32,1%	311,2680629	0	0	TRUE	35,2%
4161	3	885,1685539	Non-Empty	796,6363207	290,1046898	0	0	TRUE	295,4588085	0	291,2879643	306,2206598	0	0	TRUE	34,6%	291,813809	0	0	TRUE	33,0%
4162	1	539,572189	Non-Empty	463,9774631	175,8126928	0	0	TRUE	158,4092427	0	185,1893306	173,0737499	0	0	TRUE	32,1%	200,2535959	0	0	TRUE	37,1%
4162	2	539,572189	Non-Empty	473,2424657	200,4757914	0	0	TRUE	198,4704374	0	188,8873111	176,5297987	0	0	TRUE	32,7%	183,5657963	0	0	TRUE	34,0%
4162	3	539,572189	Non-Empty	414,6362208	163,2837048	0	0	TRUE	182,6925089	0	165,4955473	189,9686404	0	0	TRUE	35,2%	155,7527968	0	0	TRUE	28,9%
4163	1	810,28575	Non-Empty	746,6184986	304,0349386	0	0	TRUE	293,104169	0	287,3654053	274,1362162	0	0	TRUE	33,8%	266,0639776	0	0	TRUE	32,8%
4163	2	810,28575	Non-Empty	652,8167046	243,5665958	0	0	TRUE	265,9692773	0	251,2621068	239,6949735	0	0	TRUE	29,6%	253,9701604	0	0	TRUE	31,3%
4163	3	810,28575	Non-Empty	705,808918	262,6842156	0	0	TRUE	251,2123037	0	271,658238	296,4545603	0	0	TRUE	36,6%	290,2516119	0	0	TRUE	35,8%
4164	1	703,5448634	Non-Empty	555,0613251	223,0550528	0	0	TRUE	226,6086789	0	228,3387537	233,5729408	0	0	TRUE	33,2%	203,0851152	0	0	TRUE	28,9%
4164	2	703,5448634	Non-Empty	533,2550677	189,1947413	0	0	TRUE	180,6943133	0	219,3681888	224,3967445	0	0	TRUE	31,9%	232,0972745	0	0	TRUE	33,0%
4164	3	703,5448634	Non-Empty	621,9081658	291,2950693	0	0	TRUE	296,2418712	0	255,837921	245,5751781	0	0	TRUE	34,9%	268,3624737	0	0	TRUE	38,1%
4165	1	792,8823742	Non-Empty	671,9592915	244,0045707	0	0	TRUE	251,8467561	0	253,6740009	247,7647285	0	0	TRUE	31,2%	288,3208633	0	0	TRUE	36,4%
4165	2	792,8823742	Non-Empty	719,8226256	280,2879891	0	0	TRUE	276,5502589	0	271,7430768	265,4128898	0	0	TRUE	33,5%	296,3297762	0	0	TRUE	37,4%
4165	3	792,8823742	Non-Empty	708,4911759	268,5898144	0	0	TRUE	264,4853592	0	267,4652965	279,7047559	0	0	TRUE	35,3%	208,2317346	0	0	TRUE	26,3%
4166	1	1780,604321	Empty	864,7590672	572,0263683	212,3190422	0,119239878	FALSE	593,3198714	0,070021373	593,3198714	538,1254524	246,2199582	0,138278873	FALSE	30,2%	637,2689148	226,9558772	0,127460028	FALSE	35,8%
4166	2	1780,604321	Empty	986,54829	640,1616506	212,3190422	0,119239878	FALSE	607,8012132	0,070021373	607,8012132	613,9128978	246,2199582	0,138278873	FALSE	34,5%	599,782508	226,9558772	0,127460028	FALSE	33,7%
4166	3	1780,604321	Empty	871,3755694	568,4163017	212,3190422	0,119239878	FALSE	579,483236	0,070021373	579,483236	628,5659705	246,2199582	0,138278873	FALSE	35,3%	543,5528979	226,9558772	0,127460028	FALSE	30,5%
4167	1	1443,331341	Empty	779,4985839	513,8765772	178,3666231	0,123579817	FALSE	507,7084377	0,003962401	507,7084377	489,4599605	192,5849777	0,133430885	FALSE	33,9%	416,9623875	265,0825507	0,183660219	FALSE	28,9%
4167	2	1443,331341	Empty	718,5636667	463,1399221	178,3666231	0,123579817	FALSE	467,1700447	0,003962401	467,1700447	451,1979254	192,5849777	0,133430885	FALSE	31,3%	577,3325366	265,0825507	0,183660219	FALSE	40,0%
4167	3	1443,331341	Empty	723,6306924	466,3148422	178,3666231	0,123579817	FALSE	468,4528591	0,003962401	468,4528591	502,6734556	192,5849777	0,133430885	FALSE	34,8%	449,0364173	265,0825507	0,183660219	FALSE	31,1%
4168	1	840,863391	Non-Empty	755,5776675	299,7482726	0	0	TRUE	282,9618942	0	294,4114112	275,9349358	0	0	TRUE	32,8%	241,7482249	0	0	TRUE	28,8%
4168	2	840,863391	Non-Empty	718,6412797	290,0965774	0	0	TRUE	300,5948915	0	280,0191196	262,4458662	0	0	TRUE	31,2%	304,8129792	0	0	TRUE	36,3%
4168	3	840,863391	Non-Empty	683,773493	251,0185409	0	0	TRUE	257,3066052	0	266,4328601	302,4825889	0	0	TRUE	36,0%	294,3021868	0	0	TRUE	35,0%
4169	1	1007,366564	Empty	538,9037818	335,0692217	96,77381469	0,096066137	FALSE	341,491973	0,04835921	341,491973	328,5186054	103,2288152	0,102473934	FALSE	32,6%	260,7301695	171,0172511	0,169766654	FALSE	25,9%
4169	2	1007,366564	Empty	529,785045	326,0461006	96,77381469	0,096066137	FALSE	332,5644677	0,04835921	332,5644677	322,959775	103,2288152	0,102473934	FALSE	32,1%	391,0952543	171,0172511	0,169766654	FALSE	38,8%
4169	3	1007,366564	Empty	569,4496715	346,2512417	96,77381469	0,096066137	FALSE	333,3101233	0,04835921	333,3101233	355,8881837	103,2288152	0,102473934	FALSE	35,3%	355,5411403	171,0172511	0,169766654	FALSE	35,3%
4170	1	1657,66468	Empty	741,6805347	497,0390028	245,2006995	0,147919361	FALSE	520,4318187	0,053369311	520,4318187	482,8477771	259,3919252	0,156480335	FALSE	29,1%	593,2694644	351,9998567	0,21234684	FALSE	35,8%
4170	2	1657,66468	Empty	900,247393	618,962295	245,2006995	0,147919361	FALSE	605,7115448	0,053369311	605,7115448	586,0777413	259,3919252	0,156480335	FALSE	35,4%	663,065872	351,9998567	0,21234684	FALSE	40,0%
4170	3	1657,66468	Empty	819,8397954	541,6633822	245,2006995	0,147919361	FALSE	531,5213166	0,053369311	531,5213166	588,7391616	259,3919252	0,156480335	FALSE	35,5%	401,3293436	351,9998567	0,21234684	FALSE	24,2%
4171	1	733,4827721	Non-Empty	698,8917899	283,7949362	0	0	TRUE	284,7091264	0	258,704938	249,0489041	0	0	TRUE	34,0%	207,2886095	0	0	TRUE	28,3%
4171	2	733,4827721	Non-Empty	636,7562568	221,416056	0	0	TRUE	222,0868992	0	235,703253	226,9070122	0	0	TRUE	30,9%	302,9602754	0	0	TRUE	41,3%
4171	3	733,4827721	Non-Empty	645,8678573	228,2717799	0	0	TRUE	226,686746												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4186	1	534,2021851	Non-Empty	489,6111718	212,3708776	0	0	TRUE	201,4857475	0	196,1731783	186,1777281	0	0	TRUE	34,9%	163,9029432	0	0	TRUE	30,7%
4186	2	534,2021851	Non-Empty	424,0887367	152,2663124	0	0	TRUE	146,7990524	0	169,9202145	161,26241	0	0	TRUE	30,2%	169,9734225	0	0	TRUE	31,8%
4186	3	534,2021851	Non-Empty	419,5677694	169,5649952	0	0	TRUE	185,9173851	0	168,1087924	186,7620471	0	0	TRUE	35,0%	200,3258194	0	0	TRUE	37,5%
4187	1	901,9694557	Non-Empty	853,105086	347,2551318	0	0	TRUE	337,464712	0	321,960103	301,0541098	0	0	TRUE	33,4%	303,9244905	0	0	TRUE	33,7%
4187	2	901,9694557	Non-Empty	817,5573972	307,9043888	0	0	TRUE	294,3109147	0	308,5213897	288,5096085	0	0	TRUE	32,0%	303,9244905	0	0	TRUE	33,7%
4187	3	901,9694557	Non-Empty	719,4855753	246,809935	0	0	TRUE	270,193829	0	271,5120557	312,4057374	0	0	TRUE	34,6%	294,1204747	0	0	TRUE	32,6%
4188	1	804,7039039	Non-Empty	686,5493479	315,3781503	0	0	TRUE	322,8823144	0	284,6706876	272,6996784	0	0	TRUE	33,9%	276,1238886	0	0	TRUE	34,3%
4188	2	804,7039039	Non-Empty	622,9731318	236,1232713	0	0	TRUE	227,9487727	0	258,3094578	247,4469945	0	0	TRUE	30,8%	268,2346346	0	0	TRUE	33,3%
4188	3	804,7039039	Non-Empty	631,2075096	253,2024823	0	0	TRUE	253,8728168	0	261,7237586	284,557231	0	0	TRUE	35,4%	260,3453807	0	0	TRUE	32,4%
4189	1	862,3837369	Non-Empty	708,9187443	247,6802871	0	0	TRUE	273,9168973	0	262,9721461	264,3621205	0	0	TRUE	30,7%	244,9953798	0	0	TRUE	28,4%
4189	2	862,3837369	Non-Empty	774,1707829	287,3429016	0	0	TRUE	287,9900878	0	287,1772736	288,6951875	0	0	TRUE	33,5%	303,7942709	0	0	TRUE	35,2%
4189	3	862,3837369	Non-Empty	841,7194117	327,3605481	0	0	TRUE	300,4767518	0	312,2343172	309,3264289	0	0	TRUE	35,9%	313,5940861	0	0	TRUE	36,4%
4190	1	1402,431542	Empty	718,3873985	478,1554085	197,5496728	0,140862257	FALSE	462,8405612	0,110802802	462,8405612	460,4403986	241,8718133	0,172466039	FALSE	32,8%	485,4570722	188,1606198	0,134167419	FALSE	34,6%
4190	2	1402,431542	Empty	673,617692	476,0680192	197,5496728	0,140862257	FALSE	503,4354891	0,110802802	503,4354891	431,7458786	241,8718133	0,172466039	FALSE	30,8%	485,4570722	188,1606198	0,134167419	FALSE	34,6%
4190	3	1402,431542	Empty	685,1778796	448,2081143	197,5496728	0,140862257	FALSE	436,1554917	0,110802802	436,1554917	510,2452647	241,8718133	0,172466039	FALSE	36,4%	431,5173975	188,1606198	0,134167419	FALSE	30,8%
4191	1	819,9499033	Non-Empty	740,7739994	261,4599119	0	0	TRUE	250,5325503	0	272,9741663	264,3007536	0	0	TRUE	32,2%	198,5141871	0	0	TRUE	24,2%
4191	2	819,9499033	Non-Empty	763,7643418	296,5323041	0	0	TRUE	297,6869923	0	281,4460748	272,5034778	0	0	TRUE	33,2%	327,9799613	0	0	TRUE	40,0%
4191	3	819,9499033	Non-Empty	720,5717397	261,9576873	0	0	TRUE	271,7303608	0	265,5296623	283,1456719	0	0	TRUE	34,5%	293,4557549	0	0	TRUE	35,8%
4192	1	567,437187	Non-Empty	487,3502315	171,3505674	0	0	TRUE	184,9552787	0	177,6967639	177,3433032	0	0	TRUE	31,3%	166,218974	0	0	TRUE	29,3%
4192	2	567,437187	Non-Empty	528,9693516	192,4920727	0	0	TRUE	185,6191691	0	192,8718525	192,4882067	0	0	TRUE	33,9%	194,8774178	0	0	TRUE	34,3%
4192	3	567,437187	Non-Empty	539,93073	203,594547	0	0	TRUE	196,8627393	0	196,8685706	197,6056772	0	0	TRUE	34,8%	206,3407953	0	0	TRUE	36,4%
4193	1	802,6450338	Non-Empty	642,0822811	277,0098958	0	0	TRUE	310,0593538	0	258,0678157	250,758067	0	0	TRUE	31,2%	254,001593	0	0	TRUE	31,6%
4193	2	802,6450338	Non-Empty	638,3958191	236,6703193	0	0	TRUE	233,0666629	0	256,5861408	249,3183604	0	0	TRUE	31,1%	335,2821027	0	0	TRUE	41,8%
4193	3	802,6450338	Non-Empty	716,5324638	288,9648188	0	0	TRUE	259,5190172	0	287,9910773	302,5686064	0	0	TRUE	37,7%	213,3613381	0	0	TRUE	26,6%
4194	1	847,1373432	Non-Empty	615,3590728	221,8672364	0	0	TRUE	230,0132979	0	254,0354215	236,1172954	0	0	TRUE	27,9%	321,9121904	0	0	TRUE	38,0%
4194	2	847,1373432	Non-Empty	791,5075106	375,5455577	0	0	TRUE	361,2215027	0	326,7538466	303,7066014	0	0	TRUE	35,9%	237,1984561	0	0	TRUE	28,0%
4194	3	847,1373432	Non-Empty	645,1844533	249,7245491	0	0	TRUE	255,9025427	0	266,3480751	307,3134464	0	0	TRUE	36,3%	288,0266967	0	0	TRUE	34,0%
4195	1	649,4569987	Non-Empty	562,3112081	216,1674469	0	0	TRUE	197,9694334	0	223,5953206	204,179356	0	0	TRUE	31,4%	256,5756044	0	0	TRUE	39,5%
4195	2	649,4569987	Non-Empty	581,6904761	259,6172929	0	0	TRUE	265,4898575	0	231,30122	211,2161114	0	0	TRUE	32,5%	192,4317033	0	0	TRUE	29,6%
4195	3	649,4569987	Non-Empty	489,2925575	173,6722588	0	0	TRUE	185,9977078	0	194,5604581	234,0615313	0	0	TRUE	36,0%	200,4496909	0	0	TRUE	30,9%
4196	1	1015,773094	Empty	544,7674629	384,498818	138,030853	0,135887487	FALSE	367,7156199	0,083419763	367,7156199	176,2456028	0,173508832	FALSE	34,2%	288,6934057	200,3503289	0,197239256	FALSE	28,4%	
4196	2	1015,773094	Empty	455,6579191	328,8752106	138,030853	0,135887487	FALSE	345,577949	0,083419763	345,577949	290,6604609	176,2456028	0,173508832	FALSE	28,6%	299,3857541	200,3503289	0,197239256	FALSE	29,5%
4196	3	1015,773094	Empty	445,8040526	302,3990655	138,030853	0,135887487	FALSE	302,4795252	0,083419763	302,4795252	377,609923	176,2456028	0,173508832	FALSE	37,2%	427,6939344	200,3503289	0,197239256	FALSE	42,1%
4197	1	1436,809002	Empty	688,1772693	479,2222134	208,9550559	0,145429946	FALSE	495,078066	0,065781156	495,078066	456,1784138	231,9988555	0,161468125	FALSE	31,7%	355,6457926	332,5314767	0,231437495	FALSE	24,8%
4197	2	1436,809002	Empty	704,9906034	476,2802723	208,9550559	0,145429946	FALSE	472,3808496	0,065781156	472,3808496	467,3236237	231,9988555	0,161468125	FALSE	32,5%	569,0332682	332,5314767	0,231437495	FALSE	39,6%
4197	3	1436,809002	Empty	718,0738548	481,3065165	208,9550559	0,145429946	FALSE	469,3500866	0,065781156	469,3500866	513,3069647	231,9988555	0,161468125	FALSE	35,7%	512,1299414	332,5314767	0,231437495	FALSE	35,6%
4198	1	1031,733661	Empty	525,438188	355,3552065	112,6922546	0,10922611	FALSE	364,6201886	0,076638239	364,6201886	339,4452083	128,6022527	0,124646755	FALSE	32,9%	371,9039939	114,7120681	0,111183799	FALSE	36,0%
4198	2	1031,733661	Empty	487,218437	315,5373738	112,6922546	0,10922611	FALSE	323,2042743	0,076638239	323,2042743	314,7543662	128,6022527	0,124646755	FALSE	30,5%	311,9194788	114,7120681	0,111183799	FALSE	30,2%
4198	3	1031,733661	Empty	557,1209265	360,8410802	112,6922546	0,10922611	FALSE	343,9091976	0,076638239	343,9091976	377,534086	128,6022527	0,124646755	FALSE	36,6%	347,9101879	114,7120681	0,111183799	FALSE	33,7%
4199	1	692,9130392	Non-Empty	638,6166451	249,0655609	0	0	TRUE	236,1281765	0	242,7676839	234,4935686	0	0	TRUE	33,8%	215,5729455	0	0	TRUE	31,1%
4199	2	692,9130392	Non-Empty	569,9326498	214,5656904	0	0	TRUE	235,8124308	0	216,6577248	209,2735007	0	0	TRUE	30,2%	238,6700468	0	0	TRUE	34,4%
4199	3	692,9130392	Non-Empty	614,2048435	229,2817878	0	0	TRUE	220,9724319	0	233,4876305	249,14597	0	0	TRUE	36,0%	238,6700468	0	0	TRUE	34,4%
4200	1	1317,791054	Empty	672,9381797	440,778279	181,5358902	0,137757719	FALSE	423,7599832	0,144646171	423,7599832	440,3473192	185,8564435	0,141036352	FALSE	33,4%	518,232437	278,2208198	0,211126657	FALSE	39,3%
4200	2	1317,791054	Empty	656,6974838	424,9684601	181,5358902	0,137757719	FALSE	408,3810413	0,144646171	408,3810413	429,7199732	185,8564435	0,141036352	FALSE	32,6%	444,1992317	278,2208198	0,211126657	FALSE	33,7%
4200	3	1317,791054	Empty	633,5802051	452,0443149	181,5358902	0,137757719	FALSE	485,6500295	0,144646171	485,6500295	447,7237616	185,8564435	0,141036352	FALSE	34,0%	355,3593854	278,2208198	0,211126657	FALSE	27,0%
4201	1	699,3742366	Non-Empty	673,4417353	257,6228388	0	0	TRUE	238,7501277	0	249,17184	238,9669988	0	0	TRUE	34,2%	227,7032398	0	0	TRUE	32,6%
4201	2	699,3742366	Non-Empty	601,6691945	221,915925	0	0	TRUE	239,1088409	0	222,6161707	213,4989178	0	0	TRUE	30,5%	195,1742056	0	0	TRUE	27,9%
4201	3	699,3742366	Non-Empty	615,1018629	219,8354728	0	0	TRUE	221,5152681	0	227,586226	246,90832	0	0	TRUE	35,3%	276,4967912	0	0	TRUE	39,5%
4202	1	695,8876282	Non-Empty	577,2910577	228,5704483	0	0	TRUE	235,6867149	0	227,8156415	213,4648713	0	0	TRUE	30,7%	257,4784224	0	0	TRUE	37,0%
4202	2	695,8876282	Non-Empty	623,3234257	263,3426898	0	0	TRUE	259,19883	0	245,9813368	230,4862566	0	0	TRUE	33,1%	222,684041	0	0	TRUE	32,0%
4202	3	695,8876282	Non-Empty	562,7837727	203,974449	0	0	TRUE	201,0020833	0	222,0906499	251,9365004	0	0	TRUE	36,2%	215,7251647	0	0	TRUE	31,0%
4203	1	907,6853766	Non-Empty	829,356875	319,7344211	0	0	TRUE	3												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4217	1	814,2319543	Non-Empty	732,5138559	254,367955	0	0	TRUE	247,5027495	0	267,6913682	260,3794344	0	0	TRUE	32,0%	194,3053527	0	0	TRUE	23,9%
4217	2	814,2319543	Non-Empty	776,7787199	296,0959789	0	0	TRUE	286,6939334	0	283,8676111	276,1138266	0	0	TRUE	33,9%	259,0738036	0	0	TRUE	31,8%
4217	3	814,2319543	Non-Empty	718,7814649	263,7680204	0	0	TRUE	280,0352714	0	262,672975	277,7386934	0	0	TRUE	34,1%	360,8527979	0	0	TRUE	44,3%
4218	1	1520,366296	Empty	757,3569492	506,0313629	188,9202799	0,124259713	FALSE	511,1329595	0,030045886	511,1329595	484,9179745	210,0336684	0,138146754	FALSE	31,9%	605,0437302	255,6387191	0,168142848	FALSE	39,8%
4218	2	1520,366296	Empty	771,3377849	516,7237373	188,9202799	0,124259713	FALSE	518,5368726	0,030045886	518,5368726	493,8695773	210,0336684	0,138146754	FALSE	32,5%	496,4461376	255,6387191	0,168142848	FALSE	32,7%
4218	3	1520,366296	Empty	760,9531107	497,6111961	188,9202799	0,124259713	FALSE	490,6964643	0,030045886	490,6964643	541,5787446	210,0336684	0,138146754	FALSE	35,6%	418,8764286	255,6387191	0,168142848	FALSE	27,6%
4219	1	744,906137	Non-Empty	651,9333657	281,3841745	0	0	TRUE	267,5282514	0	267,5663507	255,2532942	0	0	TRUE	34,3%	229,8114678	0	0	TRUE	30,9%
4219	2	744,906137	Non-Empty	548,1738301	217,0904223	0	0	TRUE	242,7002825	0	224,9813846	214,628033	0	0	TRUE	28,8%	253,5850679	0	0	TRUE	34,0%
4219	3	744,906137	Non-Empty	614,8787456	246,4315402	0	0	TRUE	234,677603	0	252,3584016	275,0248098	0	0	TRUE	36,9%	261,5096013	0	0	TRUE	35,1%
4220	1	626,3076004	Non-Empty	457,589421	162,6826055	0	0	TRUE	167,6077399	0	187,830046	178,2553034	0	0	TRUE	28,5%	199,279691	0	0	TRUE	31,8%
4220	2	626,3076004	Non-Empty	570,6988772	266,8196603	0	0	TRUE	262,7723932	0	234,2589043	222,3174243	0	0	TRUE	35,5%	227,7482183	0	0	TRUE	36,4%
4220	3	626,3076004	Non-Empty	497,5151518	196,8053346	0	0	TRUE	195,9274673	0	204,2186501	225,7348727	0	0	TRUE	36,0%	199,279691	0	0	TRUE	31,8%
4221	1	945,886024	Empty	497,4714255	305,9041994	90,58599799	0,095768407	FALSE	285,9143017	0,155341991	285,9143017	311,3090019	114,7325191	0,121296347	FALSE	32,9%	270,2531497	82,47163794	0,087189826	FALSE	28,6%
4221	2	945,886024	Empty	459,4879186	311,6861022	90,58599799	0,095768407	FALSE	335,4616143	0,155341991	335,4616143	287,5395811	114,7325191	0,121296347	FALSE	30,4%	349,076985	82,47163794	0,087189826	FALSE	36,9%
4221	3	945,886024	Empty	503,6586649	328,2957223	90,58599799	0,095768407	FALSE	324,5101081	0,155341991	324,5101081	347,037441	114,7325191	0,121296347	FALSE	36,7%	326,5558892	82,47163794	0,087189826	FALSE	34,5%
4222	1	774,5840675	Empty	445,7173476	255,4350471	40,97070842	0,052893818	FALSE	260,0772178	0,023228149	260,0772178	248,5280826	47,87767292	0,061810816	FALSE	32,1%	236,1536791	60,25207639	0,077786362	FALSE	30,5%
4222	2	774,5840675	Empty	461,2618836	262,3853236	40,97070842	0,052893818	FALSE	258,4332349	0,023228149	258,4332349	257,1955795	47,87767292	0,061810816	FALSE	33,2%	283,3844149	60,25207639	0,077786362	FALSE	36,6%
4222	3	774,5840675	Empty	452,3782501	256,7636968	40,97070842	0,052893818	FALSE	256,0736148	0,023228149	256,0736148	268,8604054	47,87767292	0,061810816	FALSE	34,7%	255,0459734	60,25207639	0,077786362	FALSE	32,9%
4223	1	678,7626477	Non-Empty	488,1829912	183,8350721	0	0	TRUE	199,7067231	0	202,1203262	194,2695671	0	0	TRUE	28,6%	173,1537367	0	0	TRUE	25,5%
4223	2	678,7626477	Non-Empty	585,6555302	262,3394548	0	0	TRUE	259,2429495	0	242,4764667	233,0581942	0	0	TRUE	34,3%	270,1198292	0	0	TRUE	39,8%
4223	3	678,7626477	Non-Empty	565,5828366	232,5881208	0	0	TRUE	219,812975	0	234,1658548	251,4348864	0	0	TRUE	37,0%	235,4890819	0	0	TRUE	34,7%
4224	1	938,5454876	Non-Empty	656,7812451	287,7314838	0	0	TRUE	313,1596701	0	290,4924969	270,2444323	0	0	TRUE	28,8%	332,7570365	0	0	TRUE	35,5%
4224	2	938,5454876	Non-Empty	794,3611318	372,6680855	0	0	TRUE	345,4529867	0	351,3436937	326,8541462	0	0	TRUE	34,8%	307,1603414	0	0	TRUE	32,7%
4224	3	938,5454876	Non-Empty	670,8369532	278,1459183	0	0	TRUE	279,9328309	0	296,7092971	341,4469091	0	0	TRUE	36,4%	298,6281097	0	0	TRUE	31,8%
4225	1	816,3458691	Non-Empty	772,4126952	296,2965195	0	0	TRUE	296,6875522	0	280,7627407	275,3156355	0	0	TRUE	33,7%	258,2318566	0	0	TRUE	31,6%
4225	2	816,3458691	Non-Empty	712,5551771	247,8406524	0	0	TRUE	259,6333361	0	259,0052516	253,9802655	0	0	TRUE	31,1%	308,2122159	0	0	TRUE	37,8%
4225	3	816,3458691	Non-Empty	760,8996218	272,2086972	0	0	TRUE	260,0249809	0	276,5778768	287,0499681	0	0	TRUE	35,2%	249,9017967	0	0	TRUE	30,6%
4226	1	596,4522724	Non-Empty	477,6709906	213,368555	0	0	TRUE	219,4815196	0	202,3928267	190,7537838	0	0	TRUE	32,0%	176,4155954	0	0	TRUE	29,6%
4226	2	596,4522724	Non-Empty	462,2678364	194,6184708	0	0	TRUE	197,3845053	0	195,863933	184,6026672	0	0	TRUE	31,0%	168,0148528	0	0	TRUE	28,2%
4226	3	596,4522724	Non-Empty	467,7601009	188,4657016	0	0	TRUE	179,5867024	0	198,1935075	221,0962765	0	0	TRUE	37,1%	252,0222792	0	0	TRUE	42,3%
4227	1	480,4775582	Non-Empty	421,6215014	155,0399344	0	0	TRUE	148,937042	0	160,5337103	159,5676379	0	0	TRUE	33,2%	161,9000468	0	0	TRUE	33,7%
4227	2	480,4775582	Non-Empty	394,992907	149,5277572	0	0	TRUE	164,5412822	0	150,3947894	149,4897318	0	0	TRUE	31,1%	141,0097182	0	0	TRUE	29,3%
4227	3	480,4775582	Non-Empty	445,2991738	175,9098666	0	0	TRUE	166,999234	0	169,5490584	171,4201884	0	0	TRUE	35,7%	177,5677932	0	0	TRUE	37,0%
4228	1	795,8981953	Non-Empty	714,3649745	257,4786604	0	0	TRUE	243,6386714	0	267,538112	266,7461729	0	0	TRUE	33,5%	233,4634706	0	0	TRUE	29,3%
4228	2	795,8981953	Non-Empty	682,9843142	247,529055	0	0	TRUE	255,1201209	0	255,800694	255,0285337	0	0	TRUE	32,0%	254,6874225	0	0	TRUE	32,0%
4228	3	795,8981953	Non-Empty	727,6878818	290,8904799	0	0	TRUE	297,139403	0	272,54369	274,1234887	0	0	TRUE	34,4%	307,7473022	0	0	TRUE	38,7%
4229	1	758,942414	Non-Empty	671,1504385	272,5119142	0	0	TRUE	271,927961	0	260,7971615	252,3714308	0	0	TRUE	33,3%	249,778516	0	0	TRUE	32,9%
4229	2	758,942414	Non-Empty	615,401515	227,3146095	0	0	TRUE	237,282275	0	239,1341182	231,4082685	0	0	TRUE	30,5%	288,20598	0	0	TRUE	38,0%
4229	3	758,942414	Non-Empty	666,5541732	259,1158902	0	0	TRUE	249,732178	0	259,0111343	275,1627147	0	0	TRUE	36,3%	220,957918	0	0	TRUE	29,1%
4230	1	993,1720195	Empty	510,8549707	341,2085729	126,4940145	0,127363651	FALSE	324,0266976	0,115281333	324,0266976	343,4685868	136,5758828	0,137514831	FALSE	34,6%	407,7232501	151,4233929	0,152464417	FALSE	41,1%
4230	2	993,1720195	Empty	426,3656978	296,7448785	126,4940145	0,127363651	FALSE	319,5885816	0,115281333	319,5885816	286,6630102	136,5758828	0,137514831	FALSE	28,9%	271,8155001	151,4233929	0,152464417	FALSE	27,4%
4230	3	993,1720195	Empty	513,3449184	355,2185681	126,4940145	0,127363651	FALSE	349,5567403	0,115281333	349,5567403	363,0404225	136,5758828	0,137514831	FALSE	36,6%	313,6332693	151,4233929	0,152464417	FALSE	31,6%
4231	1	967,2768558	Non-Empty	894,458675	334,6139323	0	0	TRUE	337,7506874	0	325,7217842	316,2731794	0	0	TRUE	32,7%	326,1747537	0	0	TRUE	33,7%
4231	2	967,2768558	Non-Empty	906,4101185	322,3431913	0	0	TRUE	301,2577801	0	330,0739646	320,4991108	0	0	TRUE	33,1%	393,6591855	0	0	TRUE	40,7%
4231	3	967,2768558	Non-Empty	855,3526103	310,3197413	0	0	TRUE	328,2683883	0	311,4811071	330,5045657	0	0	TRUE	34,2%	247,4429166	0	0	TRUE	25,6%
4232	1	1214,438691	Empty	574,3168024	391,2552649	173,9292488	0,143217809	FALSE	396,2566323	0,040012626	396,2566323	392,022063	178,6264996	0,147085646	FALSE	32,3%	482,849118	247,669342	0,203937295	FALSE	39,8%
4232	2	1214,438691	Empty	589,2434046	394,7290514	173,9292488	0,143217809	FALSE	388,277603	0,040012626	388,277603	402,2107905	178,6264996	0,147085646	FALSE	33,1%	380,4265778	247,669342	0,203937295	FALSE	31,3%
4232	3	1214,438691	Empty	615,0671983	428,4543745	173,9292488	0,143217809	FALSE	429,9044555	0,040012626	429,9044555	420,2058373	178,6264996	0,147085646	FALSE	34,6%	351,1629949	247,669342	0,203937295	FALSE	28,9%
4233	1	741,2752458	Non-Empty	645,812115	254,0373788	0	0	TRUE	248,2680875	0	252,0542603	252,161123	0	0	TRUE	34,0%	226,9209936	0	0	TRUE	30,6%
4233	2	741,2752458	Non-Empty	602,4731903	208,9305689	0	0	TRUE	201,3933921	0	235,1394946	235,239186	0	0	TRUE	31,7%	279,8692254	0	0	TRUE	37,8%
4233	3	741,2752458	Non-Empty	651,0062747	278,3072981	0	0	TRUE	291,6137662	0	254,0814909	253,8749367	0	0	TRUE	34,2%	234,4850267	0	0	TRUE	31,6%
4234	1	1382,483042	Empty	718,6111588	501,7056897	173,															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4248	1	974,7783571	Empty	506,2832962	359,3298647	110,1529695	0,113003093	FALSE	364,0614229	0,062283256	364,0614229	336,0458315	132,632484	0,136064248	FALSE	34,5%	446,2840671	175,8334989	0,180383056	FALSE	45,8%
4248	2	974,7783571	Empty	421,7381772	275,5892645	110,1529695	0,113003093	FALSE	281,1253415	0,062283256	281,1253415	279,9289597	132,632484	0,136064248	FALSE	28,7%	270,1193038	175,8334989	0,180383056	FALSE	27,7%
4248	3	974,7783571	Empty	501,8118528	339,8592279	110,1529695	0,113003093	FALSE	329,5915927	0,062283256	329,5915927	358,8035659	132,632484	0,136064248	FALSE	36,8%	258,3749862	175,8334989	0,180383056	FALSE	26,5%
4249	1	651,3203658	Non-Empty	542,5178163	235,9160634	0	0	TRUE	219,5950178	0	232,1387535	221,6328228	0	0	TRUE	34,0%	195,3961097	0	0	TRUE	30,0%
4249	2	651,3203658	Non-Empty	449,1333081	184,3885074	0	0	TRUE	209,924414	0	192,1803177	183,4827906	0	0	TRUE	28,2%	179,1131006	0	0	TRUE	27,5%
4249	3	651,3203658	Non-Empty	530,5113636	231,0157951	0	0	TRUE	221,800934	0	227,0012946	246,2047524	0	0	TRUE	37,8%	276,8111555	0	0	TRUE	42,5%
4250	1	736,9349611	Non-Empty	538,5074965	189,3414675	0	0	TRUE	216,4369939	0	212,7034497	210,3568226	0	0	TRUE	28,5%	237,4568208	0	0	TRUE	32,2%
4250	2	736,9349611	Non-Empty	652,6383836	272,1590223	0	0	TRUE	267,9412163	0	257,7836642	254,9396945	0	0	TRUE	34,6%	270,2094857	0	0	TRUE	36,7%
4250	3	736,9349611	Non-Empty	674,5737472	275,4344713	0	0	TRUE	252,5567508	0	266,4478472	271,638444	0	0	TRUE	36,9%	229,2686546	0	0	TRUE	31,1%
4251	1	501,9284713	Non-Empty	449,7886172	174,9220355	0	0	TRUE	175,4876721	0	169,9724757	168,4726392	0	0	TRUE	33,6%	192,6594132	0	0	TRUE	38,4%
4251	2	501,9284713	Non-Empty	427,3469431	148,4580804	0	0	TRUE	145,0014361	0	161,4918989	160,0668949	0	0	TRUE	31,9%	147,0295522	0	0	TRUE	29,3%
4251	3	501,9284713	Non-Empty	451,0895659	178,5483554	0	0	TRUE	181,4399631	0	170,4640966	173,3889372	0	0	TRUE	34,5%	162,2395059	0	0	TRUE	32,3%
4252	1	681,399573	Non-Empty	584,3212455	218,4530581	0	0	TRUE	215,6699439	0	224,8638463	221,8116895	0	0	TRUE	32,6%	229,4508766	0	0	TRUE	33,7%
4252	2	681,399573	Non-Empty	590,5650061	219,0553437	0	0	TRUE	210,6307545	0	227,2666274	224,1818568	0	0	TRUE	32,9%	250,3100472	0	0	TRUE	36,7%
4252	3	681,399573	Non-Empty	595,7685409	243,8911712	0	0	TRUE	255,0988746	0	229,2690993	235,4060266	0	0	TRUE	34,5%	201,6386492	0	0	TRUE	29,6%
4253	1	1517,121156	Empty	716,4479871	455,377603	190,8074603	0,125769428	FALSE	465,8229114	0,026616818	465,8229114	453,9858229	205,4969353	0,135451895	FALSE	29,9%	514,7375351	275,2372978	0,181420776	FALSE	33,9%
4253	2	1517,121156	Empty	836,8736768	560,3938834	190,8074603	0,125769428	FALSE	555,4297826	0,026616818	555,4297826	530,2949992	205,4969353	0,135451895	FALSE	35,0%	460,5546367	275,2372978	0,181420776	FALSE	30,4%
4253	3	1517,121156	Empty	778,34657	501,3496697	190,8074603	0,125769428	FALSE	495,868462	0,026616818	495,868462	532,840334	205,4969353	0,135451895	FALSE	35,1%	541,8289843	275,2372978	0,181420776	FALSE	35,7%
4254	1	991,3779946	Non-Empty	888,3111527	314,3569512	0	0	TRUE	304,9358487	0	327,9923938	319,7382835	0	0	TRUE	32,3%	278,4769648	0	0	TRUE	28,1%
4254	2	991,3779946	Non-Empty	891,0415052	350,7387152	0	0	TRUE	374,9690241	0	329,0005257	320,7210453	0	0	TRUE	32,4%	412,1459079	0	0	TRUE	41,6%
4254	3	991,3779946	Non-Empty	905,6246337	326,2823283	0	0	TRUE	311,4731218	0	334,3850751	350,9186658	0	0	TRUE	35,4%	300,755122	0	0	TRUE	30,3%
4255	1	938,7259437	Non-Empty	866,5061397	300,4028182	0	0	TRUE	302,1707505	0	307,8377061	309,8174305	0	0	TRUE	33,0%	232,0446153	0	0	TRUE	24,7%
4255	2	938,7259437	Non-Empty	849,8855713	295,4059674	0	0	TRUE	308,7976173	0	301,9330306	303,8747815	0	0	TRUE	32,4%	358,6144055	0	0	TRUE	38,2%
4255	3	938,7259437	Non-Empty	925,9479942	342,9171581	0	0	TRUE	327,7575759	0	328,955207	325,0337317	0	0	TRUE	34,6%	348,0669229	0	0	TRUE	37,1%
4256	1	730,0809046	Non-Empty	640,3009411	262,65682	0	0	TRUE	263,5209345	0	250,5735872	241,0162686	0	0	TRUE	33,0%	199,112974	0	0	TRUE	27,3%
4256	2	730,0809046	Non-Empty	608,6040958	232,7237085	0	0	TRUE	235,3515566	0	238,169432	229,0852298	0	0	TRUE	31,4%	227,5576845	0	0	TRUE	31,2%
4256	3	730,0809046	Non-Empty	616,7005742	234,7003761	0	0	TRUE	231,2084134	0	241,3378853	259,9794061	0	0	TRUE	35,6%	303,410246	0	0	TRUE	41,6%
4257	1	1001,441244	Empty	596,9610714	383,1040902	64,24527724	0,064152817	FALSE	373,8112354	0,015038691	373,8112354	348,3475203	84,50056859	0,084378958	FALSE	34,8%	391,3678425	76,40696351	0,076297001	FALSE	39,1%
4257	2	1001,441244	Empty	499,2878614	299,9321587	64,24527724	0,064152817	FALSE	305,1405824	0,015038691	305,1405824	291,3518096	84,50056859	0,084378958	FALSE	29,1%	287,7704724	76,40696351	0,076297001	FALSE	28,7%
4257	3	1001,441244	Empty	518,8846903	318,4049952	64,24527724	0,064152817	FALSE	322,4894263	0,015038691	322,4894263	361,7419141	84,50056859	0,084378958	FALSE	36,1%	322,3029291	76,40696351	0,076297001	FALSE	32,2%
4258	1	1563,363545	Empty	800,8145173	503,8454875	193,2485823	0,123610777	FALSE	484,5836363	0,085211374	484,5836363	499,0182078	205,1943185	0,131251825	FALSE	31,9%	489,7283394	219,3018985	0,140275689	FALSE	31,3%
4258	2	1563,363545	Empty	838,7730514	558,6703193	193,2485823	0,123610777	FALSE	556,2747657	0,085211374	556,2747657	522,6716248	205,1943185	0,131251825	FALSE	33,4%	508,5640448	219,3018985	0,140275689	FALSE	32,5%
4258	3	1563,363545	Empty	756,8975119	500,8477382	193,2485823	0,123610777	FALSE	522,5051429	0,085211374	522,5051429	541,6737124	205,1943185	0,131251825	FALSE	34,6%	565,0711608	219,3018985	0,140275689	FALSE	36,1%
4259	1	704,4058061	Non-Empty	627,1512686	241,7869197	0	0	TRUE	235,4838615	0	239,8845954	231,444597	0	0	TRUE	32,9%	217,4091994	0	0	TRUE	30,9%
4259	2	704,4058061	Non-Empty	620,0497106	229,2997387	0	0	TRUE	217,6110575	0	237,1682582	228,8238302	0	0	TRUE	32,5%	200,0164635	0	0	TRUE	28,4%
4259	3	704,4058061	Non-Empty	594,388699	233,191477	0	0	TRUE	251,3108871	0	227,3529525	244,1373789	0	0	TRUE	34,7%	286,9801432	0	0	TRUE	40,7%
4260	1	691,7345846	Non-Empty	551,0952978	209,4001996	0	0	TRUE	232,4460683	0	213,449469	204,2049208	0	0	TRUE	29,5%	206,807247	0	0	TRUE	29,9%
4260	2	691,7345846	Non-Empty	625,8697556	258,0798531	0	0	TRUE	255,0309175	0	242,4110087	231,9121291	0	0	TRUE	33,5%	256,7262376	0	0	TRUE	37,1%
4260	3	691,7345846	Non-Empty	608,9924317	224,2545319	0	0	TRUE	204,2575989	0	235,8741069	255,6175348	0	0	TRUE	37,0%	228,2011001	0	0	TRUE	33,0%
4261	1	1567,991422	Empty	812,1720395	527,1007683	173,8321485	0,110862946	FALSE	530,0338864	0,030471515	530,0338864	516,7067116	184,2262052	0,117491845	FALSE	33,0%	627,1965688	268,5703012	0,171283017	FALSE	40,0%
4261	2	1567,991422	Empty	795,7404669	502,6476763	173,8321485	0,110862946	FALSE	497,559275	0,030471515	497,559275	506,2528873	184,2262052	0,117491845	FALSE	32,3%	498,0678634	268,5703012	0,171283017	FALSE	31,8%
4261	3	1567,991422	Empty	824,0920833	538,2429772	173,8321485	0,110862946	FALSE	540,3982605	0,030471515	540,3982605	545,031823	184,2262052	0,117491845	FALSE	34,8%	442,7269897	268,5703012	0,171283017	FALSE	28,2%
4262	1	773,0540262	Non-Empty	637,1368047	226,7542774	0	0	TRUE	225,4983909	0	246,2171633	239,8344575	0	0	TRUE	31,0%	229,3676781	0	0	TRUE	29,7%
4262	2	773,0540262	Non-Empty	678,1560171	280,4099338	0	0	TRUE	291,7904911	0	262,0687576	255,2751297	0	0	TRUE	33,0%	203,8823805	0	0	TRUE	26,4%
4262	3	773,0540262	Non-Empty	685,1411266	265,889815	0	0	TRUE	255,7651442	0	264,7681054	277,944439	0	0	TRUE	36,0%	339,8039676	0	0	TRUE	44,0%
4263	1	1756,804657	Empty	842,246208	587,7850105	236,8658318	0,134827643	FALSE	603,9321295	0,051909069	603,9321295	538,720495	285,9303473	0,162755914	FALSE	30,7%	525,0220815	299,6287608	0,17055326	FALSE	29,9%
4263	2	1756,804657	Empty	913,5346012	625,277491	236,8658318	0,134827643	FALSE	607,6286973	0,051909069	607,6286973	584,3182289	285,9303473	0,162755914	FALSE	33,3%	605,7947094	299,6287608	0,17055326	FALSE	34,5%
4263	3	1756,804657	Empty	812,8487974	543,7421557	236,8658318	0,134827643	FALSE	545,2438305	0,051909069	545,2438305	633,7659333	285,9303473	0,162755914	FALSE	36,1%	625,9878664	299,6287608	0,17055326	FALSE	35,6%
4264	1	1151,560299	Empty	622,2355372	440,9666081	126,9192754	0,11021505	FALSE	447,2241572	0,088662707	447,2241572	387,9368955	179,948988	0,156265363	FALSE	33,7%	447,829005	160,6766823	0,139529543	FALSE	38,9%
4264	2	1151,560299	Empty	541,0210635	355,3665122	126,9192754	0,11021505	FALSE	357,238439	0,088662707	357,238439	337,3031903	179,948988	0,156265363	FALSE	29,3%	396,6485473</				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4279	1	731,8260292	Non-Empty	634,0357297	254,7164552	0	0	TRUE	246,7857022	0	251,35751	238,0878418	0	0	TRUE	32,5%	189,7326742	0	0	TRUE	25,9%
4279	2	731,8260292	Non-Empty	604,821434	251,5208727	0	0	TRUE	269,608833	0	239,7757768	227,1175316	0	0	TRUE	31,0%	234,9071205	0	0	TRUE	32,1%
4279	3	731,8260292	Non-Empty	607,1344301	225,5887013	0	0	TRUE	215,4314941	0	240,6927424	266,6206558	0	0	TRUE	36,4%	307,1862345	0	0	TRUE	42,0%
4280	1	1259,084577	Empty	650,0347544	423,3427586	145,909391	0,115885298	FALSE	420,2052686	0,071772399	420,2052686	418,5118057	155,3309344	0,12336815	FALSE	33,2%	380,6534768	165,0472726	0,131085136	FALSE	30,2%
4280	2	1259,084577	Empty	596,7994904	393,6588948	145,909391	0,115885298	FALSE	414,0728049	0,071772399	414,0728049	384,2373514	155,3309344	0,12336815	FALSE	30,5%	468,4965868	165,0472726	0,131085136	FALSE	37,2%
4280	3	1259,084577	Empty	682,9138497	442,0829238	145,909391	0,115885298	FALSE	424,8065036	0,071772399	424,8065036	456,33542	155,3309344	0,12336815	FALSE	36,2%	409,9345135	165,0472726	0,131085136	FALSE	32,6%
4281	1	510,2820686	Non-Empty	422,4674146	144,5730417	0	0	TRUE	152,2979764	0	157,6850561	153,4962925	0	0	TRUE	30,1%	192,1061905	0	0	TRUE	37,6%
4281	2	510,2820686	Non-Empty	490,1812789	196,7345661	0	0	TRUE	188,9071608	0	182,9591107	178,0989643	0	0	TRUE	34,9%	174,0962352	0	0	TRUE	34,1%
4281	3	510,2820686	Non-Empty	454,4912978	168,9744608	0	0	TRUE	169,0769313	0	169,6379018	178,6868118	0	0	TRUE	35,0%	144,0796429	0	0	TRUE	28,2%
4282	1	842,2108493	Non-Empty	757,3685373	271,8107248	0	0	TRUE	279,1482663	0	274,8351277	270,3145186	0	0	TRUE	32,1%	280,7369498	0	0	TRUE	33,3%
4282	2	842,2108493	Non-Empty	771,8549754	285,4209675	0	0	TRUE	291,8823136	0	280,09199	275,4849136	0	0	TRUE	32,7%	263,1908904	0	0	TRUE	31,3%
4282	3	842,2108493	Non-Empty	791,6733985	284,979157	0	0	TRUE	271,1802694	0	287,2837316	296,4114171	0	0	TRUE	35,2%	298,2830091	0	0	TRUE	35,4%
4283	1	725,8517449	Non-Empty	658,0787466	246,4615109	0	0	TRUE	238,2221581	0	246,7309971	232,5716598	0	0	TRUE	32,0%	239,291784	0	0	TRUE	33,0%
4283	2	725,8517449	Non-Empty	682,6852076	271,7308382	0	0	TRUE	264,1543518	0	255,9566053	241,267831	0	0	TRUE	33,2%	231,3153912	0	0	TRUE	31,9%
4283	3	725,8517449	Non-Empty	595,2214394	207,6593958	0	0	TRUE	223,4752351	0	223,1641426	252,0122541	0	0	TRUE	34,7%	255,2445696	0	0	TRUE	35,2%
4284	1	973,6680679	Non-Empty	824,5306233	300,6870465	0	0	TRUE	288,0194857	0	320,2059599	321,8741082	0	0	TRUE	33,1%	283,043043	0	0	TRUE	29,1%
4284	2	973,6680679	Non-Empty	784,8772285	301,1102999	0	0	TRUE	328,5193874	0	304,8065884	306,394512	0	0	TRUE	31,5%	350,9733733	0	0	TRUE	36,0%
4284	3	973,6680679	Non-Empty	897,7882641	371,8707214	0	0	TRUE	357,1291947	0	348,6555196	345,3994477	0	0	TRUE	35,5%	339,6516516	0	0	TRUE	34,9%
4285	1	954,6434412	Empty	521,8388952	314,4804418	88,73406634	0,092949957	FALSE	302,8900149	0,088526039	302,8900149	314,404267	106,6715284	0,111739655	FALSE	32,9%	325,70188	93,00416259	0,097422932	FALSE	34,1%
4285	2	954,6434412	Empty	499,2646035	318,7408769	88,73406634	0,092949957	FALSE	333,9851768	0,088526039	333,9851768	300,8034149	106,6715284	0,111739655	FALSE	31,5%	314,4707806	93,00416259	0,097422932	FALSE	32,9%
4285	3	954,6434412	Empty	520,8440221	321,4221226	88,73406634	0,092949957	FALSE	317,7682496	0,088526039	317,7682496	339,4357594	106,6715284	0,111739655	FALSE	35,6%	314,4707806	93,00416259	0,097422932	FALSE	32,9%
4286	1	900,5441418	Non-Empty	798,2904614	294,2420604	0	0	TRUE	294,5275561	0	297,8587723	290,5403583	0	0	TRUE	32,3%	253,2780399	0	0	TRUE	28,1%
4286	2	900,5441418	Non-Empty	817,6256075	311,3270851	0	0	TRUE	309,3624595	0	305,0731174	297,5774464	0	0	TRUE	33,0%	300,1813806	0	0	TRUE	33,3%
4286	3	900,5441418	Non-Empty	797,6297631	294,9749963	0	0	TRUE	296,6541262	0	297,612252	312,4263371	0	0	TRUE	34,7%	347,0847213	0	0	TRUE	38,5%
4287	1	1443,135498	Empty	729,7982723	472,9988637	197,982565	0,137189173	FALSE	459,9419667	0,052877179	459,9419667	470,0798105	213,2169383	0,147745613	FALSE	32,6%	465,010327	205,59662	0,142465223	FALSE	32,2%
4287	2	1443,135498	Empty	738,1390922	497,5122519	197,982565	0,137189173	FALSE	500,6279231	0,052877179	500,6279231	475,452324	213,2169383	0,147745613	FALSE	32,9%	513,1148436	205,59662	0,142465223	FALSE	35,6%
4287	3	1443,135498	Empty	706,4256678	472,624382	197,982565	0,137189173	FALSE	482,5656079	0,052877179	482,5656079	497,6033631	213,2169383	0,147745613	FALSE	34,5%	465,010327	205,59662	0,142465223	FALSE	32,2%
4288	1	1343,151846	Empty	642,8359542	426,7277121	165,41659	0,123155539	FALSE	420,0112743	0,050373964	420,0112743	418,967677	179,9418391	0,133969841	FALSE	31,2%	426,6482335	230,904651	0,171912544	FALSE	31,8%
4288	2	1343,151846	Empty	684,3240062	472,3711878	165,41659	0,123155539	FALSE	469,8101737	0,050373964	469,8101737	446,0074726	179,9418391	0,133969841	FALSE	33,2%	395,0446607	230,904651	0,171912544	FALSE	29,4%
4288	3	1343,151846	Empty	644,1672986	444,0529463	165,41659	0,123155539	FALSE	453,3303983	0,050373964	453,3303983	478,1766967	179,9418391	0,133969841	FALSE	35,6%	521,4589521	230,904651	0,171912544	FALSE	38,8%
4289	1	841,9943688	Non-Empty	585,3652853	276,3255079	0	0	TRUE	270,5160801	0	281,3714546	286,0801482	0	0	TRUE	34,0%	266,7704931	0	0	TRUE	31,7%
4289	2	841,9943688	Non-Empty	527,3365126	245,7726262	0	0	TRUE	267,4390894	0	253,4783755	257,7202842	0	0	TRUE	30,6%	308,4533826	0	0	TRUE	36,6%
4289	3	841,9943688	Non-Empty	638,9836198	319,8962348	0	0	TRUE	304,0391993	0	307,1445387	298,1939365	0	0	TRUE	35,4%	266,7704931	0	0	TRUE	31,7%
4290	1	720,4425074	Non-Empty	645,7436248	276,5966761	0	0	TRUE	259,1472266	0	262,017451	255,5716271	0	0	TRUE	35,5%	263,9244829	0	0	TRUE	36,6%
4290	2	720,4425074	Non-Empty	510,418906	196,055534	0	0	TRUE	233,3896613	0	207,1079846	202,0129743	0	0	TRUE	28,0%	271,057577	0	0	TRUE	37,6%
4290	3	720,4425074	Non-Empty	619,3724745	247,7902973	0	0	TRUE	227,9056195	0	251,3170719	262,857906	0	0	TRUE	36,5%	185,4604474	0	0	TRUE	25,7%
4291	1	738,735904	Non-Empty	682,3832989	267,5943847	0	0	TRUE	268,6916307	0	253,7769172	242,5821744	0	0	TRUE	32,8%	218,8847123	0	0	TRUE	29,6%
4291	2	738,735904	Non-Empty	663,1070521	249,0290778	0	0	TRUE	250,8372636	0	246,6081214	235,7296124	0	0	TRUE	31,9%	273,6058904	0	0	TRUE	37,0%
4291	3	738,735904	Non-Empty	640,9040335	222,1124416	0	0	TRUE	219,2070097	0	238,3508654	260,4241172	0	0	TRUE	35,3%	246,2453013	0	0	TRUE	33,3%
4292	1	1277,592879	Non-Empty	971,9701265	433,9318924	0	0	TRUE	432,3730767	0	430,1242538	431,4318504	0	0	TRUE	33,8%	352,8589856	0	0	TRUE	27,6%
4292	2	1277,592879	Non-Empty	913,143013	385,1987649	0	0	TRUE	393,7339352	0	404,0915933	405,3200494	0	0	TRUE	31,7%	438,0318442	0	0	TRUE	34,3%
4292	3	1277,592879	Non-Empty	1001,917994	458,4622216	0	0	TRUE	451,4858671	0	443,3770318	440,8409791	0	0	TRUE	34,5%	486,7020491	0	0	TRUE	38,1%
4293	1	1427,543496	Empty	679,726728	466,6596841	199,9904712	0,140094135	FALSE	474,9054747	0,026018545	474,9054747	447,9095643	218,740591	0,15322867	FALSE	31,4%	444,1246433	310,9066225	0,217791348	FALSE	31,1%
4293	2	1427,543496	Empty	719,5074971	491,086638	199,9904712	0,140094135	FALSE	483,9786133	0,026018545	483,9786133	474,123315	218,740591	0,15322867	FALSE	33,2%	364,8166713	310,9066225	0,217791348	FALSE	25,6%
4293	3	1427,543496	Empty	692,2477748	469,7971744	199,9904712	0,140094135	FALSE	468,6594085	0,026018545	468,6594085	505,5106171	218,740591	0,15322867	FALSE	35,4%	618,6021818	310,9066225	0,217791348	FALSE	43,3%
4294	1	745,7287942	Non-Empty	583,9163931	237,2441163	0	0	TRUE	237,336657	0	243,8060471	232,2895818	0	0	TRUE	31,1%	226,5505197	0	0	TRUE	30,4%
4294	2	745,7287942	Non-Empty	604,7657514	263,692973	0	0	TRUE	269,385012	0	252,5114023	240,5837294	0	0	TRUE	32,3%	226,5505197	0	0	TRUE	30,4%
4294	3	745,7287942	Non-Empty	597,3411022	244,7917049	0	0	TRUE	239,0071251	0	249,4113448	272,855483	0	0	TRUE	36,6%	292,6277547	0	0	TRUE	39,2%
4295	1	1110,767091	Empty	504,2540095	338,1128606	142,7994328	0,128559294	FALSE	345,4484567	0,075791189	345,4484567	330,1368942	146,0879201	0,131519849	FALSE	29,7%	386,3537709	211,6751116	0,190566603	FALSE	34,8%
4295	2	1110,767091	Empty	594,9317248	402,0963087	142,7994328	0,128559294	FALSE	382,7376375	0,075791189	382,7376375	389,5039171	146,0879201	0,131519849	FALSE	35,1%	301,8388835	211,6751116	0,190566603	FALSE	27,2%
4295	3	1110,767091	Empty	532,0115919	370,5579222	142,7994328	0,128559294	FALSE	382,5809973	0,075791189	382,5809973	391,1262802	1								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4310	1	951,8191544	Non-Empty	832,9855675	282,3949662	0	0	TRUE	296,6162615	0	299,6127226	296,9196274	0	0	TRUE	31,2%	341,4133924	0	0	TRUE	35,9%
4310	2	951,8191544	Non-Empty	916,1866074	344,8373829	0	0	TRUE	338,300055	0	329,5389195	326,5768301	0	0	TRUE	34,3%	341,4133924	0	0	TRUE	35,9%
4310	3	951,8191544	Non-Empty	897,0826691	324,5868053	0	0	TRUE	316,902838	0	322,6675123	328,3226969	0	0	TRUE	34,5%	268,9923697	0	0	TRUE	28,3%
4311	1	565,3908055	Non-Empty	482,9358095	191,887407	0	0	TRUE	198,9792916	0	187,0429402	180,7516297	0	0	TRUE	32,0%	186,32197	0	0	TRUE	33,0%
4311	2	565,3908055	Non-Empty	487,0052428	184,8223463	0	0	TRUE	180,7797371	0	188,6190477	182,2747238	0	0	TRUE	32,2%	224,8713431	0	0	TRUE	39,8%
4311	3	565,3908055	Non-Empty	489,8706149	188,6810522	0	0	TRUE	185,6317768	0	189,7288176	202,3644521	0	0	TRUE	35,8%	154,1974924	0	0	TRUE	27,3%
4312	1	486,46776	Non-Empty	347,4517946	132,1543133	0	0	TRUE	146,9275406	0	143,644927	143,3274105	0	0	TRUE	29,5%	178,371512	0	0	TRUE	36,7%
4312	2	486,46776	Non-Empty	403,1112105	161,6778937	0	0	TRUE	150,3152856	0	166,6558679	166,2874874	0	0	TRUE	34,2%	135,1299333	0	0	TRUE	27,8%
4312	3	486,46776	Non-Empty	426,1168808	192,635553	0	0	TRUE	189,2249338	0	176,1669652	176,8528621	0	0	TRUE	36,4%	172,9663147	0	0	TRUE	35,6%
4313	1	1064,307347	Non-Empty	837,9852074	393,1527722	0	0	TRUE	384,4698176	0	375,8809975	362,459351	0	0	TRUE	34,1%	375,0416365	0	0	TRUE	35,2%
4313	2	1064,307347	Non-Empty	783,1109441	342,3174827	0	0	TRUE	337,6735019	0	351,2669678	338,7242185	0	0	TRUE	31,8%	354,7691156	0	0	TRUE	33,3%
4313	3	1064,307347	Non-Empty	751,659637	328,8370919	0	0	TRUE	342,1640273	0	337,1593814	363,1237772	0	0	TRUE	34,1%	334,4965947	0	0	TRUE	31,4%
4314	1	735,0994302	Non-Empty	700,6782856	274,2257799	0	0	TRUE	257,2257384	0	262,3272396	249,1338949	0	0	TRUE	33,9%	219,6848872	0	0	TRUE	29,9%
4314	2	735,0994302	Non-Empty	638,3561125	240,4521508	0	0	TRUE	252,0006533	0	238,9944149	226,9745587	0	0	TRUE	30,9%	295,7296558	0	0	TRUE	40,2%
4314	3	735,0994302	Non-Empty	624,4224249	220,4214996	0	0	TRUE	225,8730385	0	233,777757	258,9909766	0	0	TRUE	35,2%	219,6848872	0	0	TRUE	29,9%
4315	1	1113,198204	Empty	541,2349191	357,8852442	160,5019374	0,144180917	FALSE	349,802508	0,075125121	349,802508	366,8019991	168,2255349	0,151119122	FALSE	33,0%	391,4543135	178,8404483	0,160654632	FALSE	35,2%
4315	2	1113,198204	Empty	521,0721669	360,8610352	160,5019374	0,144180917	FALSE	375,9168422	0,075125121	375,9168422	353,1374377	168,2255349	0,151119122	FALSE	31,7%	342,5225243	178,8404483	0,160654632	FALSE	30,8%
4315	3	1113,198204	Empty	576,691934	394,4519246	160,5019374	0,144180917	FALSE	387,4788539	0,075125121	387,4788539	393,2587673	168,2255349	0,151119122	FALSE	35,3%	379,2213662	178,8404483	0,160654632	FALSE	34,1%
4316	1	1603,145018	Empty	789,3387286	520,9865345	203,5006767	0,126938408	FALSE	511,7638614	0,043253765	511,7638614	528,1225958	205,330301	0,12807968	FALSE	32,9%	519,5377374	201,5193256	0,125702493	FALSE	32,4%
4316	2	1603,145018	Empty	769,1859954	516,4686377	203,5006767	0,126938408	FALSE	522,8808011	0,043253765	522,8808011	514,6390134	205,330301	0,12807968	FALSE	32,1%	519,5377374	201,5193256	0,125702493	FALSE	32,4%
4316	3	1603,145018	Empty	822,008857	565,6898459	203,5006767	0,126938408	FALSE	568,5003557	0,043253765	568,5003557	560,383409	205,330301	0,12807968	FALSE	35,0%	564,0695434	201,5193256	0,125702493	FALSE	35,2%
4317	1	864,6360701	Non-Empty	778,1474597	296,1638238	0	0	TRUE	275,5996913	0	299,1755894	295,0926812	0	0	TRUE	34,1%	256,5403725	0	0	TRUE	29,7%
4317	2	864,6360701	Non-Empty	716,5827265	255,0045156	0	0	TRUE	254,8458079	0	275,5056987	271,7458181	0	0	TRUE	31,4%	323,0508394	0	0	TRUE	37,4%
4317	3	864,6360701	Non-Empty	754,1643936	313,4677307	0	0	TRUE	334,1905709	0	289,954782	297,7975708	0	0	TRUE	34,4%	285,0448583	0	0	TRUE	33,0%
4318	1	951,0942245	Non-Empty	852,6564845	289,6643346	0	0	TRUE	306,6938409	0	301,3410206	295,3448772	0	0	TRUE	31,1%	359,5600117	0	0	TRUE	37,8%
4318	2	951,0942245	Non-Empty	944,8587089	351,5757159	0	0	TRUE	338,314379	0	333,926608	327,2820701	0	0	TRUE	34,4%	266,7703313	0	0	TRUE	28,0%
4318	3	951,0942245	Non-Empty	893,6439996	309,854174	0	0	TRUE	306,0860046	0	315,8265958	328,4672772	0	0	TRUE	34,5%	324,7638815	0	0	TRUE	34,1%
4319	1	1416,707726	Empty	748,336617	470,4226092	174,6007265	0,123244	FALSE	469,7971066	0,028240252	469,7971066	470,4096086	179,1353098	0,126444789	FALSE	33,2%	480,9007878	201,9052691	0,142517236	FALSE	33,9%
4319	2	1416,707726	Empty	745,4928671	464,0744237	174,6007265	0,123244	FALSE	459,9444858	0,028240252	459,9444858	468,6220076	179,1353098	0,126444789	FALSE	33,1%	480,9007878	201,9052691	0,142517236	FALSE	33,9%
4319	3	1416,707726	Empty	754,743758	482,2106932	174,6007265	0,123244	FALSE	486,9661337	0,028240252	486,9661337	477,6761099	179,1353098	0,126444789	FALSE	33,7%	454,9061506	201,9052691	0,142517236	FALSE	32,1%
4320	1	552,214424	Non-Empty	477,520307	179,7171683	0	0	TRUE	181,7973122	0	181,6241411	171,0602788	0	0	TRUE	31,0%	188,1170016	0	0	TRUE	34,1%
4320	2	552,214424	Non-Empty	511,8759635	211,8311609	0	0	TRUE	211,6696409	0	194,6912641	183,3673747	0	0	TRUE	33,2%	194,185292	0	0	TRUE	35,2%
4320	3	552,214424	Non-Empty	462,4680012	160,6660948	0	0	TRUE	158,7474709	0	175,8990189	197,7867705	0	0	TRUE	35,8%	169,9121305	0	0	TRUE	30,8%
4321	1	1739,982287	Empty	828,0901102	553,69323	240,3704855	0,138145363	FALSE	572,8723247	0,044678889	572,8723247	557,4784373	236,5852782	0,135969935	FALSE	32,0%	594,1402931	237,9381537	0,136747457	FALSE	34,1%
4321	2	1739,982287	Empty	848,6120674	555,6294994	240,3704855	0,138145363	FALSE	556,2229063	0,044678889	556,2229063	571,2940215	236,5852782	0,135969935	FALSE	32,8%	551,7017008	237,9381537	0,136747457	FALSE	31,7%
4321	3	1739,982287	Empty	944,0080344	630,6595777	240,3704855	0,138145363	FALSE	610,8870561	0,044678889	610,8870561	611,2098283	236,5852782	0,135969935	FALSE	35,1%	594,1402931	237,9381537	0,136747457	FALSE	34,1%
4322	1	1316,94812	Empty	693,0043959	481,2244283	164,882303	0,125200302	FALSE	487,8050125	0,064873219	487,8050125	430,3409675	215,7657637	0,16383771	FALSE	32,7%	438,9827067	207,1240245	0,157275766	FALSE	33,3%
4322	2	1316,94812	Empty	670,0654503	439,9469553	164,882303	0,125200302	FALSE	428,1890121	0,064873219	428,1890121	416,0963709	215,7657637	0,16383771	FALSE	31,6%	391,9488453	207,1240245	0,157275766	FALSE	29,8%
4322	3	1316,94812	Empty	608,9599297	395,7767366	164,882303	0,125200302	FALSE	400,9540954	0,064873219	400,9540954	470,5107817	215,7657637	0,16383771	FALSE	35,7%	486,0165681	207,1240245	0,157275766	FALSE	36,9%
4323	1	1301,388553	Empty	718,0706435	472,5610038	172,0974575	0,13224141	FALSE	453,5706163	0,070448881	453,5706163	442,233408	166,5159887	0,127952554	FALSE	34,0%	414,0781758	187,680303	0,144215425	FALSE	31,8%
4323	2	1301,388553	Empty	663,0083546	431,5698948	172,0974575	0,13224141	FALSE	426,6506873	0,070448881	426,6506873	408,3225611	166,5159887	0,127952554	FALSE	31,4%	454,4436947	187,680303	0,144215425	FALSE	35,2%
4323	3	1301,388553	Empty	599,8673112	397,257654	172,0974575	0,13224141	FALSE	421,167249	0,070448881	421,167249	450,8325836	166,5159887	0,127952554	FALSE	34,6%	428,8666821	187,680303	0,144215425	FALSE	33,0%
4324	1	1049,543254	Empty	520,606309	326,6752517	95,40617798	0,090902569	FALSE	333,612574	0,027068741	333,612574	304,691504	112,0886154	0,106797519	FALSE	29,0%	379,6220279	117,3831342	0,111842112	FALSE	36,2%
4324	2	1049,543254	Empty	630,7271984	410,682864	95,40617798	0,090902569	FALSE	391,5069091	0,027068741	391,5069091	369,1411636	112,0886154	0,106797519	FALSE	35,2%	357,2913204	117,3831342	0,111842112	FALSE	34,0%
4324	3	1049,543254	Empty	500,8148849	312,1851379	95,40617798	0,090902569	FALSE	324,4237705	0,027068741	324,4237705	375,7105859	112,0886154	0,106797519	FALSE	35,8%	312,6299053	117,3831342	0,111842112	FALSE	29,8%
4325	1	701,011029	Non-Empty	523,6384018	230,0862808	0	0	TRUE	262,8937749	0	218,4861063	210,8511944	0	0	TRUE	30,1%	272,6154002	0	0	TRUE	38,9%
4325	2	701,011029	Non-Empty	579,8019783	226,1158772	0	0	TRUE	198,7893912	0	241,9201423	233,4663372	0	0	TRUE	33,3%	257,0373773	0	0	TRUE	36,7%
4325	3	701,011029	Non-Empty	576,6494944	244,8088711	0	0	TRUE	239,327863	0	240,6047805	256,6934974	0	0	TRUE	36,6%	171,3582515	0	0	TRUE	24,4%
4326	1	800,2298081	Non-Empty	744,9488782	316,3498034	0	0	TRUE	307,5170783	0	289,4498398	277,7645933	0	0	TRUE	34,7%	232,9782986	0	0	TRUE	29,1%
4326	2	800,2298081	Non-Empty	604,9710754	222,3743536	0	0	TRUE	259,5439816	0	235,0614733										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4341	1	728,7814349	Non-Empty	623,0054005	227,8610913	0	0	TRUE	229,1333045	0	236,7192028	232,3777638	0	0	TRUE	31,9%	212,9024417	0	0	TRUE	29,2%
4341	2	728,7814349	Non-Empty	656,5365444	249,2274072	0	0	TRUE	238,3347925	0	249,4598077	244,8847055	0	0	TRUE	33,6%	237,468108	0	0	TRUE	32,6%
4341	3	728,7814349	Non-Empty	638,4890571	251,6929364	0	0	TRUE	261,313338	0	242,6024244	251,5189656	0	0	TRUE	34,5%	278,4108852	0	0	TRUE	38,2%
4342	1	1621,569225	Empty	899,8041363	607,8274194	198,4311955	0,122369858	FALSE	601,4388167	0,070912645	601,4388167	543,6572145	230,114975	0,14190882	FALSE	33,5%	567,5492289	217,0454889	0,133849043	FALSE	35,0%
4342	2	1621,569225	Empty	839,9737457	534,6764115	198,4311955	0,122369858	FALSE	514,9671915	0,070912645	514,9671915	507,507988	230,114975	0,14190882	FALSE	31,3%	470,2550754	217,0454889	0,133849043	FALSE	29,0%
4342	3	1621,569225	Empty	738,5556862	479,0653946	198,4311955	0,122369858	FALSE	505,1632173	0,070912645	505,1632173	570,4040229	230,114975	0,14190882	FALSE	35,2%	583,7649212	217,0454889	0,133849043	FALSE	36,0%
4343	1	1082,455671	Empty	516,6736256	352,8063438	158,9106202	0,146805661	FALSE	342,0251923	0,088489704	342,0251923	349,9473325	154,500514	0,142731493	FALSE	32,3%	286,9159609	200,2606104	0,185005831	FALSE	26,5%
4343	2	1082,455671	Empty	521,8338176	365,7695978	158,9106202	0,146805661	FALSE	362,7915083	0,088489704	362,7915083	353,4423733	154,500514	0,142731493	FALSE	32,7%	365,1657684	200,2606104	0,185005831	FALSE	33,7%
4343	3	1082,455671	Empty	503,2066178	363,8797288	158,9106202	0,146805661	FALSE	377,63897	0,088489704	377,63897	379,0659647	154,500514	0,142731493	FALSE	35,0%	430,3739413	200,2606104	0,185005831	FALSE	39,8%
4344	1	636,9245988	Non-Empty	580,6973657	252,0652951	0	0	TRUE	240,3089295	0	232,9753629	220,8596885	0	0	TRUE	34,7%	207,5372288	0	0	TRUE	32,6%
4344	2	636,9245988	Non-Empty	502,2269356	183,200726	0	0	TRUE	181,0502214	0	201,4930832	191,0146164	0	0	TRUE	30,0%	243,3195097	0	0	TRUE	38,2%
4344	3	636,9245988	Non-Empty	504,6274124	201,6585777	0	0	TRUE	215,5654479	0	202,4561527	225,050294	0	0	TRUE	35,3%	186,0678603	0	0	TRUE	29,2%
4345	1	623,122057	Non-Empty	434,2223747	196,8766745	0	0	TRUE	195,8718933	0	203,1112057	209,3935393	0	0	TRUE	33,6%	195,4892728	0	0	TRUE	31,4%
4345	2	623,122057	Non-Empty	391,6526856	172,4876533	0	0	TRUE	189,6635399	0	183,1988719	188,8653068	0	0	TRUE	30,3%	189,380233	0	0	TRUE	30,4%
4345	3	623,122057	Non-Empty	506,2697536	253,7577293	0	0	TRUE	237,5866239	0	236,8119794	224,8632109	0	0	TRUE	36,1%	238,2525512	0	0	TRUE	38,2%
4346	1	528,1349524	Non-Empty	449,9067876	203,5803698	0	0	TRUE	199,7498444	0	189,2379878	181,7441636	0	0	TRUE	34,4%	181,5463899	0	0	TRUE	34,4%
4346	2	528,1349524	Non-Empty	370,0464778	142,1728407	0	0	TRUE	156,795096	0	155,6474647	149,4838252	0	0	TRUE	28,3%	187,0477956	0	0	TRUE	35,4%
4346	3	528,1349524	Non-Empty	435,6693644	182,3817419	0	0	TRUE	171,5900119	0	183,2494999	196,9069635	0	0	TRUE	37,3%	159,5407669	0	0	TRUE	30,2%
4347	1	1623,283334	Empty	820,3696763	521,0792935	205,7928873	0,126775704	FALSE	529,69955	0,014654696	529,69955	529,7617303	209,5252999	0,129075002	FALSE	32,6%	505,0214815	221,8506993	0,136667885	FALSE	31,1%
4347	2	1623,283334	Empty	834,3570145	526,4750385	205,7928873	0,126775704	FALSE	526,5037017	0,014654696	526,5037017	538,7941905	209,5252999	0,129075002	FALSE	33,2%	559,130926	221,8506993	0,136667885	FALSE	34,4%
4347	3	1623,283334	Empty	892,2885605	575,7290015	205,7928873	0,126775704	FALSE	567,0800818	0,014654696	567,0800818	554,7274128	209,5252999	0,129075002	FALSE	34,2%	559,130926	221,8506993	0,136667885	FALSE	34,4%
4348	1	1803,810935	Empty	928,7365895	663,8861152	272,3210906	0,150969863	FALSE	659,5827425	0,040517613	659,5827425	608,5800595	313,6830978	0,173900209	FALSE	33,7%	663,6662872	294,0363884	0,16300843	FALSE	36,8%
4348	2	1803,810935	Empty	834,1855052	583,2790793	272,3210906	0,150969863	FALSE	592,9197551	0,040517613	592,9197551	546,6228747	313,6830978	0,173900209	FALSE	30,3%	561,5637815	294,0363884	0,16300843	FALSE	31,1%
4348	3	1803,810935	Empty	822,5301448	556,64574	272,3210906	0,150969863	FALSE	551,3084369	0,040517613	551,3084369	648,6080063	313,6830978	0,173900209	FALSE	36,0%	578,5808658	294,0363884	0,16300843	FALSE	32,1%
4349	1	751,2513153	Non-Empty	704,391491	269,5521895	0	0	TRUE	265,6452708	0	258,8857571	252,7055202	0	0	TRUE	33,6%	297,0063339	0	0	TRUE	39,5%
4349	2	751,2513153	Non-Empty	667,1343383	236,7521884	0	0	TRUE	237,3024215	0	245,192596	239,3392484	0	0	TRUE	31,9%	192,180569	0	0	TRUE	25,6%
4349	3	751,2513153	Non-Empty	672,5226345	244,9469373	0	0	TRUE	248,303623	0	247,1729622	259,2065466	0	0	TRUE	34,5%	262,0644123	0	0	TRUE	34,9%
4350	1	864,0936897	Non-Empty	811,4199224	300,5013113	0	0	TRUE	279,7982819	0	300,3086871	287,7928557	0	0	TRUE	33,3%	220,8239429	0	0	TRUE	25,6%
4350	2	864,0936897	Non-Empty	789,7658436	300,905009	0	0	TRUE	302,2597562	0	292,2944545	280,1126286	0	0	TRUE	32,4%	355,2385169	0	0	TRUE	41,1%
4350	3	864,0936897	Non-Empty	733,5546692	262,6873695	0	0	TRUE	282,0356516	0	271,4905482	296,1882054	0	0	TRUE	34,3%	288,0312299	0	0	TRUE	33,3%
4351	1	1132,330823	Empty	553,541406	379,8595448	155,8697184	0,137653869	FALSE	383,3396092	0,033980322	383,3396092	382,609539	168,4715945	0,148783016	FALSE	33,8%	395,6336609	177,5864544	0,15683266	FALSE	34,9%
4351	2	1132,330823	Empty	514,7361591	338,2747273	155,8697184	0,137653869	FALSE	338,9752211	0,033980322	338,9752211	355,7872318	168,4715945	0,148783016	FALSE	31,4%	313,7784207	177,5864544	0,15683266	FALSE	27,7%
4351	3	1132,330823	Empty	595,5390345	414,1965506	155,8697184	0,137653869	FALSE	410,0159923	0,033980322	410,0159923	393,9340519	168,4715945	0,148783016	FALSE	34,8%	422,918741	177,5864544	0,15683266	FALSE	37,3%
4352	1	1386,766999	Empty	727,1104843	487,5521655	180,6929906	0,130298017	FALSE	479,5356323	0,048664274	479,5356323	478,0667708	179,2284496	0,129241934	FALSE	34,5%	467,4495502	190,7823426	0,137573466	FALSE	33,7%
4352	2	1386,766999	Empty	653,5426773	421,6759311	180,6929906	0,130298017	FALSE	421,3509706	0,048664274	421,3509706	429,6967848	179,2284496	0,129241934	FALSE	31,0%	451,8678985	190,7823426	0,137573466	FALSE	32,6%
4352	3	1386,766999	Empty	700,7391941	477,5389022	180,6929906	0,130298017	FALSE	485,880396	0,048664274	485,880396	479,0034432	179,2284496	0,129241934	FALSE	34,5%	467,4495502	190,7823426	0,137573466	FALSE	33,7%
4353	1	654,2949115	Non-Empty	542,2843349	244,256786	0	0	TRUE	256,5553676	0	223,8187448	209,0028343	0	0	TRUE	31,9%	237,2717811	0	0	TRUE	36,3%
4353	2	654,2949115	Non-Empty	512,7363719	207,8112701	0	0	TRUE	213,2122989	0	211,6233197	197,6146978	0	0	TRUE	30,2%	215,7016192	0	0	TRUE	33,0%
4353	3	654,2949115	Non-Empty	530,2525963	202,2268554	0	0	TRUE	184,5272449	0	218,852847	247,6773794	0	0	TRUE	37,9%	201,3215112	0	0	TRUE	30,8%
4354	1	543,9366815	Non-Empty	464,2983491	170,1063633	0	0	TRUE	156,7435803	0	182,1584525	178,9004027	0	0	TRUE	32,9%	201,0200779	0	0	TRUE	37,0%
4354	2	543,9366815	Non-Empty	450,878451	177,8213491	0	0	TRUE	185,5934502	0	176,8934158	173,7293533	0	0	TRUE	31,9%	201,0200779	0	0	TRUE	37,0%
4354	3	543,9366815	Non-Empty	471,2474901	196,0089691	0	0	TRUE	201,599651	0	184,8848132	191,3067435	0	0	TRUE	35,2%	141,8965256	0	0	TRUE	26,1%
4355	1	603,6237951	Non-Empty	581,3290506	210,7690831	0	0	TRUE	204,9438568	0	206,6782053	204,2200195	0	0	TRUE	33,8%	226,3589232	0	0	TRUE	37,5%
4355	2	603,6237951	Non-Empty	553,151047	189,0778144	0	0	TRUE	189,7393229	0	196,6601626	194,3211293	0	0	TRUE	32,2%	201,2079317	0	0	TRUE	33,3%
4355	3	603,6237951	Non-Empty	563,3479209	203,7768976	0	0	TRUE	208,9406154	0	200,2854272	205,0826463	0	0	TRUE	34,0%	176,0569402	0	0	TRUE	29,2%
4356	1	1188,807007	Empty	634,2596243	432,9454179	137,3626745	0,115546656	FALSE	420,5890026	0,027636087	420,5890026	386,6432923	175,1042043	0,147294055	FALSE	32,5%	400,576274	233,236674	0,196193892	FALSE	33,7%
4356	2	1188,807007	Empty	604,0966962	416,2105974	137,3626745	0,115546656	FALSE	417,2822896	0,027636087	417,2822896	368,2560367	175,1042043	0,147294055	FALSE	31,0%	310,123567	233,236674	0,196193892	FALSE	26,1%
4356	3	1188,807007	Empty	517,3240595	339,6509915	137,3626745	0,115546656	FALSE	350,9357146	0,027636087	350,9357146	433,9076779	175,1042043	0,147294055	FALSE	36,5%	478,1071658	233,236674	0,196193892	FALSE	40,2%
4357	1	883,2949046	Non-Empty	729,931811	274,32202	0	0	TRUE	284,3333495	0	282,7479161	267,4915534	0	0	TRUE	30,3%	309,1532166	0	0	TRUE	35,0%
4357	2	883,2949046	Non-Empty	800,3248223	340,8437886	0	0	TRUE	345,9838754	0											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4372	1	1044,963565	Empty	483,1201321	346,8795112	136,2406209	0,130378346	FALSE	380,8539674	0,180727674	380,8539674	310,4753822	172,6447499	0,165216047	FALSE	29,7%	336,3101129	146,8100192	0,140492955	FALSE	32,2%
4372	2	1044,963565	Empty	529,8925732	347,0545405	136,2406209	0,130378346	FALSE	334,4315848	0,180727674	334,4315848	340,5335201	172,6447499	0,165216047	FALSE	32,6%	300,2768865	146,8100192	0,140492955	FALSE	28,7%
4372	3	1044,963565	Empty	542,5960908	351,0295132	136,2406209	0,130378346	FALSE	329,6780127	0,180727674	329,6780127	393,9546627	172,6447499	0,165216047	FALSE	37,7%	408,3765656	146,8100192	0,140492955	FALSE	39,1%
4373	1	665,6403262	Non-Empty	559,633765	263,0718682	0	0	TRUE	259,7293352	0	241,0633426	231,4545394	0	0	TRUE	34,8%	182,2586607	0	0	TRUE	27,4%
4373	2	665,6403262	Non-Empty	446,2685862	162,8372332	0	0	TRUE	172,6252441	0	192,2310693	184,5687243	0	0	TRUE	27,7%	269,4258463	0	0	TRUE	40,5%
4373	3	665,6403262	Non-Empty	539,3960665	239,7312248	0	0	TRUE	233,2857469	0	232,3459142	249,6170625	0	0	TRUE	37,5%	213,9558191	0	0	TRUE	32,1%
4374	1	678,9402097	Non-Empty	576,1826561	216,270062	0	0	TRUE	230,4325546	0	217,1891367	212,1876292	0	0	TRUE	31,3%	228,9449544	0	0	TRUE	33,7%
4374	2	678,9402097	Non-Empty	611,7330482	230,4001368	0	0	TRUE	223,1423121	0	230,5896771	225,2795773	0	0	TRUE	33,2%	205,2609936	0	0	TRUE	30,2%
4374	3	678,9402097	Non-Empty	613,2497653	232,2700108	0	0	TRUE	225,365343	0	231,1613959	241,4730031	0	0	TRUE	35,6%	244,7342616	0	0	TRUE	36,0%
4375	1	1261,963482	Empty	655,3364187	438,2691924	179,9165972	0,142568783	FALSE	417,1947962	0,129718896	417,1947962	413,5956311	162,6949014	0,128922036	FALSE	32,8%	483,3051633	262,5223343	0,208026887	FALSE	38,3%
4375	2	1261,963482	Empty	647,4299937	438,4442532	179,9165972	0,142568783	FALSE	425,4513427	0,129718896	425,4513427	408,6057317	162,6949014	0,128922036	FALSE	32,4%	308,7782988	262,5223343	0,208026887	FALSE	24,5%
4375	3	1261,963482	Empty	547,1755596	385,2500364	179,9165972	0,142568783	FALSE	419,3173432	0,129718896	419,3173432	439,7621192	162,6949014	0,128922036	FALSE	34,8%	469,8800199	262,5223343	0,208026887	FALSE	37,2%
4376	1	664,9031071	Non-Empty	604,0987693	245,8390871	0	0	TRUE	231,0874691	0	236,912045	220,4020187	0	0	TRUE	33,1%	182,8483544	0	0	TRUE	27,5%
4376	2	664,9031071	Non-Empty	554,8291748	228,6147916	0	0	TRUE	245,9084726	0	217,5897736	202,4262859	0	0	TRUE	30,4%	232,7160875	0	0	TRUE	35,0%
4376	3	664,9031071	Non-Empty	536,4993553	190,4492283	0	0	TRUE	187,9071654	0	210,4012885	242,0748025	0	0	TRUE	36,4%	249,3386652	0	0	TRUE	37,5%
4377	1	699,8897285	Non-Empty	591,906267	206,2386508	0	0	TRUE	197,7388761	0	226,2043479	226,0702219	0	0	TRUE	32,3%	259,218418	0	0	TRUE	37,0%
4377	2	699,8897285	Non-Empty	595,4751809	234,2845298	0	0	TRUE	250,2617201	0	227,5682528	227,4333181	0	0	TRUE	32,5%	216,0153483	0	0	TRUE	30,9%
4377	3	699,8897285	Non-Empty	644,0118047	259,3665478	0	0	TRUE	251,8891323	0	246,1171278	246,3861885	0	0	TRUE	35,2%	224,6559622	0	0	TRUE	32,1%
4378	1	759,5296349	Non-Empty	701,8790591	246,6789466	0	0	TRUE	240,8298889	0	252,948242	257,594739	0	0	TRUE	33,9%	259,8390856	0	0	TRUE	34,2%
4378	2	759,5296349	Non-Empty	660,0567278	223,4686403	0	0	TRUE	236,2316076	0	237,8709134	242,245638	0	0	TRUE	31,9%	239,8514637	0	0	TRUE	31,6%
4378	3	759,5296349	Non-Empty	745,6470123	289,3820479	0	0	TRUE	282,4681384	0	268,7158973	259,6892579	0	0	TRUE	34,2%	259,8390856	0	0	TRUE	34,2%
4379	1	1135,111902	Empty	564,5785602	381,8621306	140,5187733	0,123792882	FALSE	378,598665	0,089686291	378,598665	357,5918417	180,8342234	0,1593096	FALSE	31,5%	359,0660099	157,2125776	0,138499629	FALSE	31,6%
4379	2	1135,111902	Empty	566,1859271	398,9253632	140,5187733	0,123792882	FALSE	411,1177633	0,089686291	411,1177633	358,6099131	180,8342234	0,1593096	FALSE	31,6%	382,2315589	157,2125776	0,138499629	FALSE	33,7%
4379	3	1135,111902	Empty	542,7063071	354,3244085	140,5187733	0,123792882	FALSE	345,395474	0,089686291	345,395474	418,9101475	180,8342234	0,1593096	FALSE	36,9%	393,8143335	157,2125776	0,138499629	FALSE	34,7%
4380	1	1617,808377	Empty	824,9388172	567,2734868	243,1485683	0,150295036	FALSE	554,100138	0,06091097	554,100138	535,2354502	287,6004706	0,177771654	FALSE	33,1%	499,3235732	281,7912067	0,17418083	FALSE	30,9%
4380	2	1617,808377	Empty	776,8343389	548,4762838	243,1485683	0,150295036	FALSE	564,6102102	0,06091097	564,6102102	504,0243815	287,6004706	0,177771654	FALSE	31,2%	619,1612308	281,7912067	0,17418083	FALSE	38,3%
4380	3	1617,808377	Empty	749,5111656	502,0586066	243,1485683	0,150295036	FALSE	499,0980291	0,06091097	499,0980291	578,5485455	287,6004706	0,177771654	FALSE	35,8%	499,3235732	281,7912067	0,17418083	FALSE	30,9%
4381	1	1269,273708	Empty	647,5585426	429,8613295	154,1341048	0,121434883	FALSE	450,1534142	0,086548856	450,1534142	405,3443382	178,6510961	0,140750647	FALSE	31,9%	418,283381	165,7120533	0,130556595	FALSE	33,0%
4381	2	1269,273708	Empty	661,3555487	412,9355769	154,1341048	0,121434883	FALSE	402,5049029	0,086548856	402,5049029	413,9806822	178,6510961	0,140750647	FALSE	32,6%	418,283381	165,7120533	0,130556595	FALSE	33,0%
4381	3	1269,273708	Empty	674,3275099	446,4768014	154,1341048	0,121434883	FALSE	416,6153907	0,086548856	416,6153907	449,9486874	178,6510961	0,140750647	FALSE	35,4%	432,7069458	165,7120533	0,130556595	FALSE	34,1%
4382	1	573,5287184	Non-Empty	482,8711736	188,9576109	0	0	TRUE	195,5015121	0	187,7688542	182,2683408	0	0	TRUE	31,8%	193,5659425	0	0	TRUE	33,8%
4382	2	573,5287184	Non-Empty	500,3874182	188,1694263	0	0	TRUE	176,4094983	0	194,5799637	188,8799252	0	0	TRUE	32,9%	164,8895065	0	0	TRUE	28,8%
4382	3	573,5287184	Non-Empty	491,643718	196,4016811	0	0	TRUE	201,6177081	0	191,1799005	202,3804524	0	0	TRUE	35,3%	215,0732694	0	0	TRUE	37,5%
4383	1	1302,010806	Empty	630,1887593	402,2379482	120,382623	0,092459005	FALSE	414,4194959	0,021746063	414,4194959	412,2305916	115,4325155	0,08865711	FALSE	31,7%	335,5697952	187,0507759	0,143662998	FALSE	25,8%
4383	2	1302,010806	Empty	642,8933633	406,9409097	120,382623	0,092459005	FALSE	411,1208149	0,021746063	411,1208149	420,5411595	115,4325155	0,08865711	FALSE	32,3%	483,2205051	187,0507759	0,143662998	FALSE	37,1%
4383	3	1302,010806	Empty	749,3257595	492,8319476	120,382623	0,092459005	FALSE	476,4704947	0,021746063	476,4704947	469,2390544	115,4325155	0,08865711	FALSE	36,0%	483,2205051	187,0507759	0,143662998	FALSE	37,1%
4384	1	1032,940776	Non-Empty	804,8992568	274,7532915	0	0	TRUE	300,1061654	0	307,9950273	308,4423062	0	0	TRUE	29,9%	396,196462	0	0	TRUE	38,4%
4384	2	1032,940776	Non-Empty	937,7455129	371,4095026	0	0	TRUE	360,5723315	0	358,8287011	359,3498021	0	0	TRUE	34,8%	311,2972201	0	0	TRUE	30,1%
4384	3	1032,940776	Non-Empty	956,7925238	386,7779818	0	0	TRUE	372,2622791	0	366,1170475	365,1486676	0	0	TRUE	35,4%	325,4470938	0	0	TRUE	31,5%
4385	1	853,4971037	Non-Empty	741,1939175	294,7416313	0	0	TRUE	320,2332528	0	278,7638593	266,0386047	0	0	TRUE	31,2%	301,2342719	0	0	TRUE	35,3%
4385	2	853,4971037	Non-Empty	787,1539419	294,1429598	0	0	TRUE	273,0758854	0	296,0494758	282,5351524	0	0	TRUE	33,1%	351,4399839	0	0	TRUE	41,2%
4385	3	853,4971037	Non-Empty	740,9809672	264,6125126	0	0	TRUE	260,1879656	0	278,6837685	304,9233466	0	0	TRUE	35,7%	200,8228479	0	0	TRUE	23,5%
4386	1	575,2120282	Non-Empty	540,5401507	248,9727423	0	0	TRUE	246,2288556	0	215,6682739	204,8401541	0	0	TRUE	35,6%	196,2488096	0	0	TRUE	34,1%
4386	2	575,2120282	Non-Empty	427,9437221	145,6116133	0	0	TRUE	152,1030263	0	170,7438083	162,1712242	0	0	TRUE	28,2%	169,1800083	0	0	TRUE	29,4%
4386	3	575,2120282	Non-Empty	473,1987205	180,6276725	0	0	TRUE	176,8801463	0	188,799946	208,2006498	0	0	TRUE	36,2%	209,7832103	0	0	TRUE	36,5%
4387	1	730,9751517	Non-Empty	604,7497766	218,7484002	0	0	TRUE	226,6233001	0	231,12838	223,1242787	0	0	TRUE	30,5%	262,8225264	0	0	TRUE	36,0%
4387	2	730,9751517	Non-Empty	671,8244805	275,5920734	0	0	TRUE	273,2359428	0	256,7635571	247,8716958	0	0	TRUE	33,9%	229,9697106	0	0	TRUE	31,5%
4387	3	730,9751517	Non-Empty	636,0297238	236,6346781	0	0	TRUE	231,1159088	0	243,0832145	259,9791772	0	0	TRUE	35,6%	238,1829146	0	0	TRUE	32,6%
4388	1	1622,160708	Empty	809,1574893	505,9561183	190,0255195	0,117143461	FALSE	493,0820298	0,064743283	493,0820298	506,7103938	212,077948	0,130737939	FALSE	31,2%	575,6054124	256,2695188	0,157980352	FALSE	35,5%
4388	2	1622,160708	Empty	878,3284743	586,9851769	190,0255195	0,117143461	FALSE	585,969162	0,064743283	585,969162	550,0266302	212,077948	0,130737939	FALSE	33,9%	505,8350594				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4403	1	641,4252167	Non-Empty	575,4641308	213,8014055	0	0	TRUE	209,6656674	0	215,3534855	210,2334479	0	0	TRUE	32,8%	180,4008422	0	0	TRUE	28,1%
4403	2	641,4252167	Non-Empty	557,5775374	212,8383981	0	0	TRUE	225,6262461	0	208,659862	203,6989655	0	0	TRUE	31,8%	233,8529436	0	0	TRUE	36,5%
4403	3	641,4252167	Non-Empty	580,9645103	214,7854131	0	0	TRUE	206,1333032	0	217,4118691	227,4928033	0	0	TRUE	35,5%	227,1714309	0	0	TRUE	35,4%
4404	1	1261,61698	Empty	605,3192885	382,9622955	122,0436291	0,09673588	FALSE	398,8023089	0,0746975	398,8023089	375,2019514	138,3149664	0,109633089	FALSE	29,7%	446,8226804	132,822246	0,105279374	FALSE	35,4%
4404	2	1261,61698	Empty	682,3862229	449,6358973	122,0436291	0,09673588	FALSE	455,0825781	0,0746975	455,0825781	422,9712274	138,3149664	0,109633089	FALSE	33,5%	433,6808369	132,822246	0,105279374	FALSE	34,4%
4404	3	1261,61698	Empty	688,5024876	429,0187872	122,0436291	0,09673588	FALSE	407,732093	0,0746975	407,732093	463,4438012	138,3149664	0,109633089	FALSE	36,7%	381,1134627	132,822246	0,105279374	FALSE	30,2%
4405	1	1674,48478	Empty	875,2407435	597,793392	230,3901847	0,1375887	FALSE	592,9843265	0,013121687	592,9843265	580,3300607	235,8122335	0,14082674	FALSE	34,7%	630,182444	343,4384415	0,205100963	FALSE	37,6%
4405	2	1674,48478	Empty	769,2635142	503,8574451	230,3901847	0,1375887	FALSE	511,0896622	0,013121687	511,0896622	510,0616547	235,8122335	0,14082674	FALSE	30,5%	594,1720186	343,4384415	0,205100963	FALSE	35,5%
4405	3	1674,48478	Empty	847,8953804	572,8339427	230,3901847	0,1375887	FALSE	570,410791	0,013121687	570,410791	584,0930645	235,8122335	0,14082674	FALSE	34,9%	450,1303172	343,4384415	0,205100963	FALSE	26,9%
4406	1	1230,615398	Empty	634,1443679	410,3777094	131,7871929	0,107090479	FALSE	413,0909341	0,084344279	413,0909341	386,9646948	168,2986624	0,136759757	FALSE	31,4%	464,8991502	263,2603043	0,213925736	FALSE	37,8%
4406	2	1230,615398	Empty	648,588519	432,2902086	131,7871929	0,107090479	FALSE	442,4717813	0,084344279	442,4717813	395,7787391	168,2986624	0,136759757	FALSE	32,2%	300,8170972	263,2603043	0,213925736	FALSE	24,4%
4406	3	1230,615398	Empty	627,3221601	387,9474796	131,7871929	0,107090479	FALSE	375,0526823	0,084344279	375,0526823	447,8719638	168,2986624	0,136759757	FALSE	36,4%	464,8991502	263,2603043	0,213925736	FALSE	37,8%
4407	1	628,2116107	Non-Empty	432,6946732	165,5457767	0	0	TRUE	196,7127419	0	178,4605432	183,413696	0	0	TRUE	29,2%	202,6489067	0	0	TRUE	32,3%
4407	2	628,2116107	Non-Empty	508,7948118	194,743531	0	0	TRUE	179,0081121	0	209,847276	215,671564	0	0	TRUE	34,3%	189,1389796	0	0	TRUE	30,1%
4407	3	628,2116107	Non-Empty	581,6697112	267,9223031	0	0	TRUE	252,4907567	0	239,9037915	229,1263507	0	0	TRUE	36,5%	236,4237245	0	0	TRUE	37,6%
4408	1	595,4645865	Non-Empty	401,8345194	147,5989498	0	0	TRUE	140,6400607	0	178,9270823	176,2233999	0	0	TRUE	29,6%	193,7053474	0	0	TRUE	32,5%
4408	2	595,4645865	Non-Empty	440,835263	214,979917	0	0	TRUE	236,4012514	0	196,2931594	193,3270665	0	0	TRUE	32,5%	165,0082589	0	0	TRUE	27,7%
4408	3	595,4645865	Non-Empty	494,6248454	232,8857197	0	0	TRUE	218,4232744	0	220,2443447	225,9141201	0	0	TRUE	37,9%	236,7509802	0	0	TRUE	39,8%
4409	1	1457,945284	Empty	779,1285631	481,7117712	153,4456961	0,105247911	FALSE	471,0894393	0,054960351	471,0894393	472,5506027	150,5624775	0,103270321	FALSE	32,4%	497,0268013	268,0312572	0,183841781	FALSE	34,1%
4409	2	1457,945284	Empty	794,6344432	501,7913934	153,4456961	0,105247911	FALSE	495,7428037	0,054960351	495,7428037	481,9551006	150,5624775	0,103270321	FALSE	33,1%	364,486321	268,0312572	0,183841781	FALSE	25,0%
4409	3	1457,945284	Empty	744,5656577	474,4421192	153,4456961	0,105247911	FALSE	491,1130409	0,054960351	491,1130409	503,4395805	150,5624775	0,103270321	FALSE	34,5%	596,4321616	268,0312572	0,183841781	FALSE	40,9%
4410	1	1061,838428	Empty	537,7910806	352,9048115	132,1177348	0,124423576	FALSE	335,4365653	0,104140983	335,4365653	339,9615866	145,4688785	0,136997188	FALSE	32,0%	390,5612608	209,0454679	0,196871259	FALSE	36,8%
4410	2	1061,838428	Empty	544,64222	376,5200933	132,1177348	0,124423576	FALSE	375,8159894	0,104140983	375,8159894	344,2924956	145,4688785	0,136997188	FALSE	32,4%	280,7159062	209,0454679	0,196871259	FALSE	26,4%
4410	3	1061,838428	Empty	481,6591959	332,4135231	132,1177348	0,124423576	FALSE	350,5858731	0,104140983	350,5858731	377,5843456	145,4688785	0,136997188	FALSE	35,6%	390,5612608	209,0454679	0,196871259	FALSE	36,8%
4411	1	896,4482085	Non-Empty	788,542739	327,5479618	0	0	TRUE	310,8641403	0	317,0780149	309,9763651	0	0	TRUE	34,6%	308,1540717	0	0	TRUE	34,4%
4411	2	896,4482085	Non-Empty	702,8745903	252,3250119	0	0	TRUE	246,0863891	0	282,6303113	276,3001926	0	0	TRUE	30,8%	298,8160695	0	0	TRUE	33,3%
4411	3	896,4482085	Non-Empty	737,9637459	316,5752347	0	0	TRUE	339,4976791	0	296,7398823	310,1716508	0	0	TRUE	34,6%	289,4780673	0	0	TRUE	32,3%
4412	1	1002,648775	Empty	481,1745546	318,7164065	111,5663064	0,111271573	FALSE	318,8316385	0,033889186	318,8316385	308,9099046	135,6853072	0,135326857	FALSE	30,8%	360,953559	155,178387	0,15476844	FALSE	36,0%
4412	2	1002,648775	Empty	513,8759601	354,022925	111,5663064	0,111271573	FALSE	356,7431619	0,033889186	356,7431619	329,9039242	135,6853072	0,135326857	FALSE	32,9%	360,953559	155,178387	0,15476844	FALSE	36,0%
4412	3	1002,648775	Empty	495,3180761	329,9093893	111,5663064	0,111271573	FALSE	327,0739745	0,033889186	327,0739745	363,8349462	135,6853072	0,135326857	FALSE	36,3%	280,741657	155,178387	0,15476844	FALSE	28,0%
4413	1	822,3287182	Non-Empty	702,9285516	285,9068619	0	0	TRUE	293,0568175	0	275,9338787	258,11399	0	0	TRUE	31,4%	236,200802	0	0	TRUE	28,7%
4413	2	822,3287182	Non-Empty	730,6502083	301,121056	0	0	TRUE	295,7635491	0	286,8159865	268,2933282	0	0	TRUE	32,6%	332,4307584	0	0	TRUE	40,4%
4413	3	822,3287182	Non-Empty	661,2648945	235,3008003	0	0	TRUE	233,5083515	0	259,578853	295,9213999	0	0	TRUE	36,0%	253,6971577	0	0	TRUE	30,9%
4414	1	674,6201301	Non-Empty	601,6597578	232,3314744	0	0	TRUE	220,583241	0	232,288549	218,9167473	0	0	TRUE	32,5%	214,9888327	0	0	TRUE	31,9%
4414	2	674,6201301	Non-Empty	578,0098462	240,6087195	0	0	TRUE	260,7876428	0	223,157801	210,3116151	0	0	TRUE	31,2%	207,5754246	0	0	TRUE	30,8%
4414	3	674,6201301	Non-Empty	567,6906759	201,6799362	0	0	TRUE	193,2492463	0	219,17378	245,3917677	0	0	TRUE	36,4%	252,0558728	0	0	TRUE	37,4%
4415	1	1238,818748	Empty	607,7761748	394,6788253	154,6951037	0,124873073	FALSE	390,5290704	0,063053058	390,5290704	388,5139452	143,1202846	0,11552964	FALSE	31,4%	528,7640999	229,7071162	0,185424314	FALSE	42,7%
4415	2	1238,818748	Empty	655,3935991	434,8065941	154,6951037	0,124873073	FALSE	423,1671836	0,063053058	423,1671836	418,9528373	143,1202846	0,11552964	FALSE	33,8%	332,3660056	229,7071162	0,185424314	FALSE	26,8%
4415	3	1238,818748	Empty	602,491758	409,3333289	154,6951037	0,124873073	FALSE	425,1224943	0,063053058	425,1224943	431,3519658	143,1202846	0,11552964	FALSE	34,8%	377,6886428	229,7071162	0,185424314	FALSE	30,5%
4416	1	535,7200563	Non-Empty	511,4161598	211,0147812	0	0	TRUE	196,5862146	0	196,5903607	190,9417977	0	0	TRUE	35,6%	178,5733521	0	0	TRUE	33,3%
4416	2	535,7200563	Non-Empty	405,2510176	140,5274041	0	0	TRUE	161,7766025	0	155,7800672	151,3040922	0	0	TRUE	28,2%	184,7310539	0	0	TRUE	34,5%
4416	3	535,7200563	Non-Empty	476,9713149	184,177871	0	0	TRUE	177,3572392	0	183,3496284	193,4741664	0	0	TRUE	36,1%	172,4156503	0	0	TRUE	32,2%
4417	1	842,8637748	Non-Empty	745,1681068	265,5775295	0	0	TRUE	263,2604308	0	276,1153396	271,9912587	0	0	TRUE	32,3%	286,7474698	0	0	TRUE	34,0%
4417	2	842,8637748	Non-Empty	749,6875343	287,0921968	0	0	TRUE	301,7703378	0	277,7899728	273,6408794	0	0	TRUE	32,5%	286,7474698	0	0	TRUE	34,0%
4417	3	842,8637748	Non-Empty	779,8285695	290,1940485	0	0	TRUE	277,8330061	0	288,9584623	297,2316367	0	0	TRUE	35,3%	269,3688352	0	0	TRUE	32,0%
4418	1	579,2737138	Non-Empty	534,5837129	199,6992418	0	0	TRUE	195,1688811	0	197,2000157	192,697888	0	0	TRUE	33,3%	189,1506004	0	0	TRUE	32,7%
4418	2	579,2737138	Non-Empty	506,8774664	183,1577556	0	0	TRUE	189,7921551	0	186,9795917	182,7107989	0	0	TRUE	31,5%	212,7944255	0	0	TRUE	36,7%
4418	3	579,2737138	Non-Empty	528,8748655	196,4167164	0	0	TRUE	194,3126776	0	195,0941065	203,8650269	0	0	TRUE	35,2%	177,3286879	0	0	TRUE	30,6%
4419	1	560,2165454	Non-Empty	461,0766736	157,9591476	0	0	TRUE	161,0615643	0	174,6615105	184,2657643	0	0	TRUE	32,9%	184,6867732	0	0	TRUE	33,0%
4419	2	560,2165454	Non-Empty	466,3569497	158,6769434	0	0	TRUE	157,2168799	0	176,66174										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4434	1	1304,538786	Empty	652,4507388	428,2671848	168,7057267	0,129322124	FALSE	420,1362409	0,201328006	420,1362409	426,9544547	201,0891874	0,15414581	FALSE	32,7%	434,8462621	146,9850057	0,112672009	FALSE	33,3%
4434	2	1304,538786	Empty	581,8312678	413,1255411	168,7057267	0,129322124	FALSE	460,4724247	0,201328006	460,4724247	380,7420805	201,0891874	0,15414581	FALSE	29,2%	434,8462621	146,9850057	0,112672009	FALSE	33,3%
4434	3	1304,538786	Empty	718,4146104	463,1460605	168,7057267	0,129322124	FALSE	423,9301209	0,201328006	423,9301209	496,8422513	201,0891874	0,15414581	FALSE	38,1%	434,8462621	146,9850057	0,112672009	FALSE	33,3%
4435	1	634,8173594	Non-Empty	481,959805	205,3400271	0	0	TRUE	213,6500875	0	205,3940916	188,2985367	0	0	TRUE	29,7%	180,2567811	0	0	TRUE	28,4%
4435	2	634,8173594	Non-Empty	526,56104	243,8496412	0	0	TRUE	246,0680807	0	224,4015483	205,7239468	0	0	TRUE	32,4%	227,2802892	0	0	TRUE	35,8%
4435	3	634,8173594	Non-Empty	481,0860291	185,627691	0	0	TRUE	175,0991912	0	205,0217194	240,7948759	0	0	TRUE	37,9%	227,2802892	0	0	TRUE	35,8%
4436	1	1277,40255	Empty	620,8269378	402,6088628	170,9218294	0,133804202	FALSE	425,0068181	0,069843406	425,0068181	396,8366017	176,6940905	0,138322951	FALSE	31,1%	460,918446	212,1556643	0,166083639	FALSE	36,1%
4436	2	1277,40255	Empty	681,9119441	430,2466812	170,9218294	0,133804202	FALSE	419,1974486	0,069843406	419,1974486	435,8825335	176,6940905	0,138322951	FALSE	34,1%	355,5656583	212,1556643	0,166083639	FALSE	27,8%
4436	3	1277,40255	Empty	696,5117595	444,5470064	170,9218294	0,133804202	FALSE	433,1982836	0,069843406	433,1982836	444,6834151	176,6940905	0,138322951	FALSE	34,8%	460,918446	212,1556643	0,166083639	FALSE	36,1%
4437	1	887,7882178	Non-Empty	661,6521492	264,8575732	0	0	TRUE	309,8073333	0	265,4321501	259,2749278	0	0	TRUE	29,2%	289,2793069	0	0	TRUE	32,6%
4437	2	887,7882178	Non-Empty	749,8181163	294,8907557	0	0	TRUE	281,7077312	0	300,8013124	293,8236325	0	0	TRUE	33,1%	319,2047525	0	0	TRUE	36,0%
4437	3	887,7882178	Non-Empty	801,5509605	328,0398889	0	0	TRUE	296,2731533	0	321,5547553	334,6896575	0	0	TRUE	37,7%	279,3041584	0	0	TRUE	31,5%
4438	1	1691,711978	Empty	936,8265465	606,902118	207,1549708	0,12245286	FALSE	600,2762226	0,008592462	600,2762226	579,036255	224,1535076	0,132500987	FALSE	34,2%	620,2943921	299,2126112	0,176869712	FALSE	36,7%
4438	2	1691,711978	Empty	858,8291619	539,7720596	207,1549708	0,12245286	FALSE	544,0134903	0,008592462	544,0134903	530,8274231	224,1535076	0,132500987	FALSE	31,4%	620,2943921	299,2126112	0,176869712	FALSE	36,7%
4438	3	1691,711978	Empty	865,9518694	545,0378009	207,1549708	0,12245286	FALSE	547,4222655	0,008592462	547,4222655	581,8483003	224,1535076	0,132500987	FALSE	34,4%	451,1231942	299,2126112	0,176869712	FALSE	26,7%
4439	1	1465,488676	Empty	752,3573334	505,8986578	215,9032671	0,147325101	FALSE	498,5109079	0,040657416	497,8625107	497,8625107	224,5206084	0,153205284	FALSE	34,0%	555,3430771	287,9487336	0,196486495	FALSE	37,9%
4439	2	1465,488676	Empty	685,7935628	462,4321547	215,9032671	0,147325101	FALSE	478,1416724	0,040657416	478,1416724	453,8148134	224,5206084	0,153205284	FALSE	31,0%	509,0644873	287,9487336	0,196486495	FALSE	34,7%
4439	3	1465,488676	Empty	744,5505566	497,1578631	215,9032671	0,147325101	FALSE	488,8360954	0,040657416	488,8360954	513,8113545	224,5206084	0,153205284	FALSE	35,1%	401,0811112	287,9487336	0,196486495	FALSE	27,4%
4440	1	1017,038006	Empty	522,9147984	375,8053501	109,1493538	0,107320821	FALSE	397,25242	0,176524903	397,25242	328,1088732	156,8458307	0,154218259	FALSE	32,3%	393,6921315	109,5318821	0,107696941	FALSE	38,7%
4440	2	1017,038006	Empty	474,7895824	309,9279232	109,1493538	0,107320821	FALSE	313,6227822	0,176524903	313,6227822	297,9121557	156,8458307	0,154218259	FALSE	29,3%	339,0126688	109,5318821	0,107696941	FALSE	33,3%
4440	3	1017,038006	Empty	525,0031805	331,3047333	109,1493538	0,107320821	FALSE	306,1628043	0,176524903	306,1628043	391,0169775	156,8458307	0,154218259	FALSE	38,4%	284,3332061	109,5318821	0,107696941	FALSE	28,0%
4441	1	1314,280059	Empty	741,2083853	467,6307331	124,068397	0,094400273	FALSE	454,8860268	0,030590171	454,8860268	431,1663794	137,7529258	0,10481246	FALSE	32,8%	463,8635504	139,1199067	0,105852558	FALSE	35,3%
4441	2	1314,280059	Empty	720,025564	454,5528825	124,068397	0,094400273	FALSE	449,9131469	0,030590171	449,9131469	418,8441762	137,7529258	0,10481246	FALSE	31,9%	417,4771953	139,1199067	0,105852558	FALSE	31,8%
4441	3	1314,280059	Empty	635,5449477	392,0964437	124,068397	0,094400273	FALSE	409,4808856	0,030590171	409,4808856	464,2695037	137,7529258	0,10481246	FALSE	33,3%	432,9393137	139,1199067	0,105852558	FALSE	32,9%
4442	1	1477,571541	Empty	741,9855683	474,1150613	181,2087958	0,122639609	FALSE	475,6657238	0,011552663	475,6657238	480,2619748	181,0774437	0,122550712	FALSE	32,5%	487,8773955	228,4150957	0,15458818	FALSE	33,0%
4442	2	1477,571541	Empty	751,6456867	486,3832882	181,2087958	0,122639609	FALSE	490,542059	0,011552663	490,542059	486,5146403	181,0774437	0,122550712	FALSE	32,9%	529,695458	228,4150957	0,15458818	FALSE	35,8%
4442	3	1477,571541	Empty	792,2037941	517,0731913	181,2087958	0,122639609	FALSE	511,3637579	0,011552663	511,3637579	510,7949257	181,0774437	0,122550712	FALSE	34,6%	459,9986872	228,4150957	0,15458818	FALSE	31,1%
4443	1	646,1362702	Non-Empty	579,7041198	237,4040242	0	0	TRUE	228,5356394	0	227,502863	224,3232166	0	0	TRUE	34,7%	218,5460914	0	0	TRUE	33,8%
4443	2	646,1362702	Non-Empty	509,1566217	176,5040627	0	0	TRUE	177,2832145	0	199,816743	197,0240459	0	0	TRUE	30,5%	237,5500994	0	0	TRUE	36,8%
4443	3	646,1362702	Non-Empty	557,5706612	232,2281833	0	0	TRUE	240,3174163	0	218,8166642	224,7890078	0	0	TRUE	34,8%	190,0400795	0	0	TRUE	29,4%
4444	1	1310,242637	Empty	626,9714313	442,9393275	183,0536737	0,139709752	FALSE	456,7242459	0,063127899	456,7242459	402,9049859	223,0880152	0,170264659	FALSE	30,8%	414,4645078	211,5284934	0,16144223	FALSE	31,6%
4444	2	1310,242637	Empty	675,226686	463,3301698	183,0536737	0,139709752	FALSE	449,2506758	0,063127899	449,2506758	433,9148243	223,0880152	0,170264659	FALSE	33,1%	414,4645078	211,5284934	0,16144223	FALSE	31,6%
4444	3	1310,242637	Empty	601,4955867	403,9731402	183,0536737	0,139709752	FALSE	404,2677158	0,063127899	404,2677158	473,4228273	223,0880152	0,170264659	FALSE	36,1%	481,3136219	211,5284934	0,16144223	FALSE	36,7%
4445	1	660,8263361	Non-Empty	540,9922277	207,9222964	0	0	TRUE	224,6839825	0	209,0261842	207,920251	0	0	TRUE	31,5%	237,6004804	0	0	TRUE	36,0%
4445	2	660,8263361	Non-Empty	568,8398588	210,7230922	0	0	TRUE	202,4379431	0	219,7858287	218,6229675	0	0	TRUE	33,1%	207,9004204	0	0	TRUE	31,5%
4445	3	660,8263361	Non-Empty	600,4891019	242,1809475	0	0	TRUE	233,7044105	0	232,0143233	234,2831177	0	0	TRUE	35,5%	215,3254354	0	0	TRUE	32,6%
4446	1	676,1097403	Non-Empty	617,8799888	238,572484	0	0	TRUE	224,5055464	0	235,7756324	232,0760745	0	0	TRUE	34,3%	250,4110149	0	0	TRUE	37,0%
4446	2	676,1097403	Non-Empty	559,7851648	198,2073756	0	0	TRUE	201,8701535	0	213,6073407	210,2556257	0	0	TRUE	31,1%	200,3288119	0	0	TRUE	29,6%
4446	3	676,1097403	Non-Empty	594,1662884	239,3298807	0	0	TRUE	249,7340403	0	226,7267672	233,7780401	0	0	TRUE	34,6%	225,3699134	0	0	TRUE	33,3%
4447	1	543,6858283	Non-Empty	486,5347719	181,5927066	0	0	TRUE	168,6664656	0	186,3181347	183,4519132	0	0	TRUE	33,7%	209,5455797	0	0	TRUE	38,5%
4447	2	543,6858283	Non-Empty	436,2520306	164,7399411	0	0	TRUE	185,2436759	0	167,0623958	164,4923945	0	0	TRUE	30,3%	152,9116392	0	0	TRUE	28,1%
4447	3	543,6858283	Non-Empty	496,9464986	197,3531806	0	0	TRUE	189,7756868	0	190,3052979	195,7415206	0	0	TRUE	36,0%	181,2286094	0	0	TRUE	33,3%
4448	1	880,6795146	Non-Empty	774,8936293	292,5160304	0	0	TRUE	299,8489166	0	290,4203589	286,2433019	0	0	TRUE	32,5%	342,4864779	0	0	TRUE	38,9%
4448	2	880,6795146	Non-Empty	757,4326543	274,7455764	0	0	TRUE	281,7689836	0	283,8762057	279,7932719	0	0	TRUE	31,8%	332,70115	0	0	TRUE	37,8%
4448	3	880,6795146	Non-Empty	817,4846865	313,4179078	0	0	TRUE	299,0616143	0	306,38295	314,6429409	0	0	TRUE	35,7%	205,4918867	0	0	TRUE	23,3%
4449	1	1257,915109	Empty	672,4659403	413,6132387	121,2409321	0,096382444	FALSE	429,0005605	0,054729327	429,0005605	399,5411213	135,3130494	0,107569301	FALSE	31,8%	388,0801931	146,7739777	0,116680352	FALSE	30,9%
4449	2	1257,915109	Empty	708,4152367	423,6692935	121,2409321	0,096382444	FALSE	413,1633736	0,054729327	413,1633736	420,9001543	135,3130494	0,107569301	FALSE	33,5%	468,3726468	146,7739777	0,116680352	FALSE	37,2%
4449	3	1257,915109	Empty	699,7540019	420,6325765	121,2409321	0,096382444	FALSE	415,7511745	0,054729327	415,7511745	437,473833	135,3130494	0,1							

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4465	1	1365,46605	Empty	689,6315331	452,6037613	157,0598945	0,115022922	FALSE	457,5622231	0,043389726	457,5622231	431,9971808	173,1744547	0,126824431	FALSE	31,6%	433,2728813	171,8987542	0,125890171	FALSE	31,7%
4465	2	1365,46605	Empty	725,5110355	469,1158581	157,0598945	0,115022922	FALSE	454,7069142	0,043389726	454,7069142	454,4727248	173,1744547	0,126824431	FALSE	33,3%	446,4023625	171,8987542	0,125890171	FALSE	32,7%
4465	3	1365,46605	Empty	676,2821822	443,7464307	157,0598945	0,115022922	FALSE	453,1969128	0,043389726	453,1969128	478,9961444	173,1744547	0,126824431	FALSE	35,1%	485,7908063	171,8987542	0,125890171	FALSE	35,6%
4466	1	1213,610659	Empty	567,3163052	372,4465887	147,3305294	0,121398513	FALSE	379,9342853	0,058257905	379,9342853	362,9383878	152,9054672	0,125992192	FALSE	29,9%	409,4108246	178,4941361	0,147076935	FALSE	33,7%
4466	2	1213,610659	Empty	662,9264865	441,660417	147,3305294	0,121398513	FALSE	422,7517606	0,058257905	422,7517606	424,1046274	152,9054672	0,125992192	FALSE	34,9%	380,1671942	178,4941361	0,147076935	FALSE	31,3%
4466	3	1213,610659	Empty	590,4401061	399,5036528	147,3305294	0,121398513	FALSE	410,9246126	0,058257905	410,9246126	426,5676433	152,9054672	0,125992192	FALSE	35,1%	424,0326397	178,4941361	0,147076935	FALSE	34,9%
4467	1	620,1329838	Non-Empty	486,6898866	183,0974977	0	0	TRUE	165,8132839	0	204,0572795	214,2959568	0	0	TRUE	34,6%	195,4767014	0	0	TRUE	31,5%
4467	2	620,1329838	Non-Empty	407,697126	155,6513237	0	0	TRUE	189,9136966	0	170,9375285	179,5144056	0	0	TRUE	28,9%	215,6984291	0	0	TRUE	34,8%
4467	3	620,1329838	Non-Empty	584,6704968	281,3841624	0	0	TRUE	264,4060032	0	245,1381758	226,3226214	0	0	TRUE	36,5%	208,9578532	0	0	TRUE	33,7%
4468	1	835,2596952	Non-Empty	761,6776186	310,7810047	0	0	TRUE	316,8335441	0	288,3806501	273,2102645	0	0	TRUE	32,7%	295,821142	0	0	TRUE	35,4%
4468	2	835,2596952	Non-Empty	751,9958181	274,4974985	0	0	TRUE	253,9483321	0	284,7149996	269,7374472	0	0	TRUE	32,3%	217,5155456	0	0	TRUE	26,0%
4468	3	835,2596952	Non-Empty	692,4337183	249,981192	0	0	TRUE	264,477819	0	262,1640454	292,3119835	0	0	TRUE	35,0%	321,9230075	0	0	TRUE	38,5%
4469	1	907,5985451	Empty	446,5867304	288,079496	100,1109209	0,110303087	FALSE	292,6791568	0,093578345	292,6791568	284,2810839	115,0633145	0,126777764	FALSE	31,3%	315,2710736	100,1310078	0,110325219	FALSE	34,7%
4469	2	907,5985451	Empty	456,8041052	305,7374916	100,1109209	0,110303087	FALSE	317,7777731	0,093578345	317,7777731	290,785098	115,0633145	0,126777764	FALSE	32,0%	305,7174047	100,1310078	0,110325219	FALSE	33,7%
4469	3	907,5985451	Empty	493,5283951	313,7815576	100,1109209	0,110303087	FALSE	297,1416153	0,093578345	297,1416153	332,5323633	115,0633145	0,126777764	FALSE	36,6%	286,6100669	100,1310078	0,110325219	FALSE	31,6%
4470	1	613,5330743	Non-Empty	510,4341531	200,9679604	0	0	TRUE	199,3075418	0	203,6375418	187,8793008	0	0	TRUE	30,6%	240,3531631	0	0	TRUE	39,2%
4470	2	613,5330743	Non-Empty	546,7709199	243,6585127	0	0	TRUE	248,6586905	0	218,1340832	201,2540452	0	0	TRUE	32,8%	183,427414	0	0	TRUE	29,9%
4470	3	613,5330743	Non-Empty	480,6657559	168,9066012	0	0	TRUE	165,2600313	0	191,7614493	224,3997283	0	0	TRUE	36,6%	189,7524972	0	0	TRUE	30,9%
4471	1	888,1841554	Non-Empty	655,9573853	239,216228	0	0	TRUE	251,4117855	0	267,8678083	274,9210892	0	0	TRUE	31,0%	398,1515179	0	0	TRUE	44,8%
4471	2	888,1841554	Non-Empty	676,1538838	268,2241453	0	0	TRUE	289,2311218	0	276,1152828	283,3857296	0	0	TRUE	31,9%	255,225332	0	0	TRUE	28,7%
4471	3	888,1841554	Non-Empty	842,883031	380,7437821	0	0	TRUE	347,541248	0	344,2010643	329,8773366	0	0	TRUE	37,1%	234,8073055	0	0	TRUE	26,4%
4472	1	682,7337496	Non-Empty	645,0713748	233,7378628	0	0	TRUE	220,570767	0	234,6069981	232,1264519	0	0	TRUE	34,0%	227,5779165	0	0	TRUE	33,3%
4472	2	682,7337496	Non-Empty	598,5091097	209,4821422	0	0	TRUE	218,621591	0	217,6726965	215,3712	0	0	TRUE	31,5%	256,0251561	0	0	TRUE	37,5%
4472	3	682,7337496	Non-Empty	633,6525138	239,5137446	0	0	TRUE	243,5413916	0	230,454055	235,2360978	0	0	TRUE	34,5%	199,130677	0	0	TRUE	29,2%
4473	1	887,1366677	Empty	453,7829232	100,0064406	92,79209439	0,104597293	FALSE	314,9991377	0,131809302	314,9991377	280,8230796	122,3531597	0,137919178	FALSE	31,7%	240,9506999	153,7403627	0,173299524	FALSE	27,2%
4473	2	887,1366677	Empty	433,5028584	297,8338483	92,79209439	0,104597293	FALSE	310,9340179	0,131809302	310,9340179	268,9277831	122,3531597	0,137919178	FALSE	30,2%	306,6645271	153,7403627	0,173299524	FALSE	34,6%
4473	3	887,1366677	Empty	446,1584251	279,2963787	92,79209439	0,104597293	FALSE	261,203512	0,131809302	261,203512	338,040805	122,3531597	0,137919178	FALSE	38,1%	339,5214407	153,7403627	0,173299524	FALSE	38,3%
4474	1	1176,913648	Empty	595,5371341	379,5011581	152,4300708	0,129516784	FALSE	374,8635098	0,0454666	374,8635098	398,7998281	157,3747699	0,133718196	FALSE	33,9%	320,9764493	205,1838526	0,174340618	FALSE	27,3%
4474	2	1176,913648	Empty	551,3443221	356,0299464	152,4300708	0,129516784	FALSE	372,1138984	0,0454666	372,1138984	369,2062312	157,3747699	0,133718196	FALSE	31,4%	494,8386927	205,1838526	0,174340618	FALSE	42,0%
4474	3	1176,913648	Empty	664,2271746	441,3825431	152,4300708	0,129516784	FALSE	429,9362393	0,0454666	429,9362393	408,9075882	157,3747699	0,133718196	FALSE	34,7%	361,0985055	205,1838526	0,174340618	FALSE	30,7%
4475	1	617,7197773	Non-Empty	557,9579836	196,0808895	0	0	TRUE	202,8844976	0	199,9473852	196,9276142	0	0	TRUE	31,9%	199,6669987	0	0	TRUE	32,3%
4475	2	617,7197773	Non-Empty	586,8708568	215,1838675	0	0	TRUE	212,1775804	0	210,3084761	207,1322234	0	0	TRUE	33,5%	224,6253736	0	0	TRUE	36,4%
4475	3	617,7197773	Non-Empty	578,9330436	206,4550203	0	0	TRUE	202,6576993	0	207,463916	213,6599397	0	0	TRUE	34,6%	193,427405	0	0	TRUE	31,3%
4476	1	946,8659318	Empty	473,2222637	320,1875187	112,703924	0,119028386	FALSE	310,9307596	0,056707788	310,9307596	286,5287032	157,4139783	0,166247378	FALSE	30,3%	340,4461777	160,2871609	0,169281791	FALSE	36,0%
4476	2	946,8659318	Empty	514,3031364	368,8065484	112,703924	0,119028386	FALSE	367,0879465	0,056707788	367,0879465	311,4025312	157,4139783	0,166247378	FALSE	32,9%	308,5293486	160,2871609	0,169281791	FALSE	32,6%
4476	3	946,8659318	Empty	390,6744896	257,8718646	112,703924	0,119028386	FALSE	268,8472257	0,056707788	268,8472257	348,9346974	157,4139783	0,166247378	FALSE	36,9%	297,8904055	160,2871609	0,169281791	FALSE	31,5%
4477	1	940,0543495	Non-Empty	742,9929741	275,3433892	0	0	TRUE	299,4071521	0	289,1915363	271,3992982	0	0	TRUE	28,9%	293,1352273	0	0	TRUE	31,2%
4477	2	940,0543495	Non-Empty	891,9649942	386,4340618	0	0	TRUE	372,6164772	0	347,1751901	325,815562	0	0	TRUE	34,7%	363,8920063	0	0	TRUE	38,7%
4477	3	940,0543495	Non-Empty	780,2364245	278,2768985	0	0	TRUE	268,0307202	0	303,6876231	342,8394893	0	0	TRUE	36,5%	283,027116	0	0	TRUE	30,1%
4478	1	968,822598	Empty	506,718207	341,6410199	93,67249228	0,09668694	FALSE	338,0254974	0,087210341	338,0254974	317,9671638	100,4495723	0,103682111	FALSE	32,8%	253,7392519	164,6774842	0,169976923	FALSE	26,2%
4478	2	968,822598	Empty	480,1869136	309,0595177	93,67249228	0,09668694	FALSE	299,3937865	0,087210341	299,3937865	301,3186992	100,4495723	0,103682111	FALSE	31,1%	415,2096849	164,6774842	0,169976923	FALSE	42,9%
4478	3	968,822598	Empty	466,3024716	318,1220605	93,67249228	0,09668694	FALSE	331,4033141	0,087210341	331,4033141	349,5367351	100,4495723	0,103682111	FALSE	36,1%	299,8736613	164,6774842	0,169976923	FALSE	31,0%
4479	1	849,9045007	Non-Empty	573,4312357	257,3716343	0	0	TRUE	274,1614851	0	263,6593009	255,0735119	0	0	TRUE	30,0%	315,6788146	0	0	TRUE	37,1%
4479	2	849,9045007	Non-Empty	664,6802171	317,8835915	0	0	TRUE	303,9364182	0	305,6148853	295,6628567	0	0	TRUE	34,8%	234,7355288	0	0	TRUE	27,6%
4479	3	849,9045007	Non-Empty	610,3414047	276,6492749	0	0	TRUE	271,8065974	0	280,6303146	299,1681322	0	0	TRUE	35,2%	299,4901574	0	0	TRUE	35,2%
4480	1	856,6898	Non-Empty	803,8108902	276,6130557	0	0	TRUE	271,5272672	0	284,1969539	281,8352973	0	0	TRUE	32,9%	300,7528021	0	0	TRUE	35,1%
4480	2	856,6898	Non-Empty	803,3671516	288,2445394	0	0	TRUE	295,2339731	0	284,0400648	281,679712	0	0	TRUE	32,9%	291,6390808	0	0	TRUE	34,0%
4480	3	856,6898	Non-Empty	815,8478961	291,8322049	0	0	TRUE	289,9285596	0	288,4527813	293,1747907	0	0	TRUE	34,2%	264,297917	0	0	TRUE	30,9%
4481	1	966,4256005	Non-Empty	856,2631861	318,5233141	0	0	TRUE	317,2105029	0	321,2767343	310,9231444	0	0	TRUE	32,2%	303,4126885	0	0	TRUE	31,4%
4481	2	966,4256005	Non-Empty	893,8835581	327,9264768	0	0	TRUE	298,3964564												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4496	1	752,5985945	Non-Empty	684,5293658	260,9443528	0	0	TRUE	256,673492	0	256,2374135	254,8430537	0	0	TRUE	33,9%	275,1435722	0	0	TRUE	36,6%
4496	2	752,5985945	Non-Empty	629,292737	222,5931738	0	0	TRUE	235,2077627	0	235,5608851	234,2790402	0	0	TRUE	31,1%	226,5888242	0	0	TRUE	30,1%
4496	3	752,5985945	Non-Empty	696,7189478	269,0610679	0	0	TRUE	260,7173399	0	260,8002959	263,4765007	0	0	TRUE	35,0%	250,8661982	0	0	TRUE	33,3%
4497	1	1510,18187	Empty	730	482,2934237	192,8114644	0,127674334	FALSE	490,8099668	0,021697223	490,8099668	464,1209956	210,9838925	0,139707605	FALSE	30,7%	489,4107914	187,6963949	0,124287279	FALSE	32,4%
4497	2	1510,18187	Empty	804,0364752	541,2875586	192,8114644	0,127674334	FALSE	534,7617614	0,021697223	534,7617614	511,1920677	210,9838925	0,139707605	FALSE	33,8%	531,3602878	187,6963949	0,124287279	FALSE	35,2%
4497	3	1510,18187	Empty	744,8147534	486,6008882	192,8114644	0,127674334	FALSE	484,6101423	0,021697223	484,6101423	534,8688072	210,9838925	0,139707605	FALSE	35,4%	489,4107914	187,6963949	0,124287279	FALSE	32,4%
4498	1	601,6519047	Non-Empty	521,5252615	191,4894383	0	0	TRUE	186,808567	0	198,8802267	183,9440151	0	0	TRUE	30,6%	215,8099223	0	0	TRUE	35,9%
4498	2	601,6519047	Non-Empty	585,4450451	249,731501	0	0	TRUE	239,3729087	0	223,2556155	206,4887747	0	0	TRUE	34,3%	228,8893116	0	0	TRUE	38,0%
4498	3	601,6519047	Non-Empty	470,7464537	160,4309654	0	0	TRUE	175,4704289	0	179,5160625	211,2191148	0	0	TRUE	35,1%	156,9526708	0	0	TRUE	26,1%
4499	1	608,6978521	Non-Empty	497,8717877	203,3651304	0	0	TRUE	223,1885294	0	195,3056824	192,56029	0	0	TRUE	31,6%	200,5936104	0	0	TRUE	33,0%
4499	2	608,6978521	Non-Empty	487,7152678	178,2724446	0	0	TRUE	183,1596778	0	191,3214718	188,6320851	0	0	TRUE	31,0%	186,7595683	0	0	TRUE	30,7%
4499	3	608,6978521	Non-Empty	566,1009656	227,0602771	0	0	TRUE	202,3496449	0	222,0706979	227,505477	0	0	TRUE	37,4%	221,3446735	0	0	TRUE	36,4%
4500	1	754,1900395	Non-Empty	555,330688	228,9123884	0	0	TRUE	245,3649617	0	234,9249771	221,3539841	0	0	TRUE	29,3%	278,3320384	0	0	TRUE	36,9%
4500	2	754,1900395	Non-Empty	647,9445112	272,0289216	0	0	TRUE	238,9842047	0	274,1039758	258,2697159	0	0	TRUE	34,2%	278,3320384	0	0	TRUE	36,9%
4500	3	754,1900395	Non-Empty	579,5274586	253,2487295	0	0	TRUE	269,8408731	0	245,1610867	274,5663396	0	0	TRUE	36,4%	197,5259627	0	0	TRUE	26,2%
4501	1	1375,024125	Empty	654,1035951	429,0109621	176,6800472	0,128492325	FALSE	423,2808816	0,057425747	423,2808816	416,5762209	191,587499	0,139333918	FALSE	30,3%	406,2571279	241,5110046	0,175641285	FALSE	29,5%
4501	2	1375,024125	Empty	740,8246676	511,7892234	176,6800472	0,128492325	FALSE	502,1163317	0,057425747	502,1163317	471,8059076	191,587499	0,139333918	FALSE	34,3%	421,882402	241,5110046	0,175641285	FALSE	30,7%
4501	3	1375,024125	Empty	638,1835198	434,2239396	176,6800472	0,128492325	FALSE	449,6269118	0,057425747	449,6269118	486,6419967	191,587499	0,139333918	FALSE	35,4%	546,8845952	241,5110046	0,175641285	FALSE	39,8%
4502	1	638,3349287	Non-Empty	522,9519244	177,6404138	0	0	TRUE	203,9218235	0	190,6527859	187,111987	0	0	TRUE	29,3%	237,329653	0	0	TRUE	37,2%
4502	2	638,3349287	Non-Empty	629,5046054	242,935652	0	0	TRUE	227,2296189	0	229,4987382	225,2364931	0	0	TRUE	35,3%	212,7783096	0	0	TRUE	33,3%
4502	3	638,3349287	Non-Empty	598,4671595	217,7588628	0	0	TRUE	207,9134863	0	218,1834045	225,9864486	0	0	TRUE	35,4%	188,2269661	0	0	TRUE	29,5%
4503	1	764,2289452	Non-Empty	626,9216334	236,9413237	0	0	TRUE	254,6384375	0	241,0914352	244,1579955	0	0	TRUE	31,9%	281,095704	0	0	TRUE	36,8%
4503	2	764,2289452	Non-Empty	635,5916599	226,9871967	0	0	TRUE	226,0601569	0	244,4256145	247,5345839	0	0	TRUE	32,4%	298,6641855	0	0	TRUE	39,1%
4503	3	764,2289452	Non-Empty	724,7479224	300,3004248	0	0	TRUE	283,5303508	0	278,7118955	272,5363658	0	0	TRUE	35,7%	184,4690557	0	0	TRUE	24,1%
4504	1	731,4382313	Non-Empty	605,131614	276,3972145	0	0	TRUE	268,9704642	0	261,0749869	251,6844904	0	0	TRUE	34,4%	216,4460072	0	0	TRUE	29,6%
4504	2	731,4382313	Non-Empty	493,8969932	196,423179	0	0	TRUE	220,257014	0	213,0844729	205,420127	0	0	TRUE	28,1%	283,618906	0	0	TRUE	38,8%
4504	3	731,4382313	Non-Empty	596,3325716	258,6178378	0	0	TRUE	242,2107531	0	257,2787716	274,3336139	0	0	TRUE	37,5%	231,3733181	0	0	TRUE	31,6%
4505	1	1379,309683	Empty	728,9243509	499,9784102	184,2292354	0,13356626	FALSE	502,3750851	0,057517414	502,3750851	465,9674869	212,4153848	0,154001228	FALSE	33,8%	571,9088931	216,0556657	0,156640433	FALSE	41,5%
4505	2	1379,309683	Empty	658,647992	435,5268254	184,2292354	0,13356626	FALSE	443,7482742	0,057517414	443,7482742	421,0430742	212,4153848	0,154001228	FALSE	30,5%	403,7003951	216,0556657	0,156640433	FALSE	29,3%
4505	3	1379,309683	Empty	685,7651869	443,8044477	184,2292354	0,13356626	FALSE	433,186324	0,057517414	433,186324	492,2991222	212,4153848	0,154001228	FALSE	35,7%	403,7003951	216,0556657	0,156640433	FALSE	29,3%
4506	1	943,3080791	Non-Empty	832,397588	340,011546	0	0	TRUE	324,0171956	0	324,0108884	306,8355935	0	0	TRUE	32,5%	328,1071579	0	0	TRUE	34,8%
4506	2	943,3080791	Non-Empty	799,7155248	312,7245394	0	0	TRUE	318,1252458	0	311,6642701	294,7884415	0	0	TRUE	31,3%	328,1071579	0	0	TRUE	34,8%
4506	3	943,3080791	Non-Empty	788,3700415	290,5719937	0	0	TRUE	285,1656376	0	307,2427206	341,684044	0	0	TRUE	36,2%	287,0937632	0	0	TRUE	30,4%
4507	1	1188,048555	Non-Empty	919,612071	405,9589122	0	0	TRUE	392,5875541	0	406,3171734	403,3598842	0	0	TRUE	34,0%	372,7211154	0	0	TRUE	31,4%
4507	2	1188,048555	Non-Empty	861,6861207	375,7780815	0	0	TRUE	390,1518431	0	380,7234376	377,9524267	0	0	TRUE	31,8%	407,66372	0	0	TRUE	34,3%
4507	3	1188,048555	Non-Empty	907,5957661	406,3115618	0	0	TRUE	405,3091582	0	401,0079445	406,7362445	0	0	TRUE	34,2%	407,66372	0	0	TRUE	34,3%
4508	1	1045,349852	Empty	614,2552146	415,6484832	109,396099	0,104650227	FALSE	407,6524782	0,053950167	407,6524782	360,4471759	140,7180726	0,134613376	FALSE	34,5%	387,9648933	113,2003551	0,108289445	FALSE	37,1%
4508	2	1045,349852	Empty	529,7104821	331,212432	109,396099	0,104650227	FALSE	323,3251083	0,053950167	323,3251083	310,8360218	140,7180726	0,134613376	FALSE	29,7%	344,857683	113,2003551	0,108289445	FALSE	33,0%
4508	3	1045,349852	Empty	473,2163339	298,4889363	109,396099	0,104650227	FALSE	314,372265	0,053950167	314,372265	374,0666538	140,7180726	0,134613376	FALSE	35,8%	312,5272752	113,2003551	0,108289445	FALSE	29,9%
4509	1	525,6764751	Non-Empty	494,413892	217,6359288	0	0	TRUE	213,9421323	0	193,245708	183,8253796	0	0	TRUE	35,0%	141,3108804	0	0	TRUE	26,9%
4509	2	525,6764751	Non-Empty	409,5862674	142,7461745	0	0	TRUE	148,9902483	0	160,090138	152,286075	0	0	TRUE	29,0%	203,4876678	0	0	TRUE	38,7%
4509	3	525,6764751	Non-Empty	440,928816	165,2943719	0	0	TRUE	162,7440945	0	172,3406292	189,5650205	0	0	TRUE	36,1%	180,8779269	0	0	TRUE	34,4%
4510	1	680,7513365	Non-Empty	623,9813115	264,4013075	0	0	TRUE	256,028577	0	244,9162166	225,5678405	0	0	TRUE	33,1%	237,1156341	0	0	TRUE	34,8%
4510	2	680,7513365	Non-Empty	585,7399707	232,4411647	0	0	TRUE	230,3496322	0	229,9062727	211,7436818	0	0	TRUE	31,1%	214,1689598	0	0	TRUE	31,5%
4510	3	680,7513365	Non-Empty	524,6518747	183,9088643	0	0	TRUE	194,3731274	0	205,9288473	243,4398142	0	0	TRUE	35,8%	229,4667427	0	0	TRUE	33,7%
4511	1	1204,267862	Empty	583,8387398	393,6828714	174,2142773	0,144664059	FALSE	381,0178265	0,099981658	381,0178265	388,3885128	206,0911024	0,171133939	FALSE	32,3%	429,1069395	272,4678611	0,226251874	FALSE	35,6%
4511	2	1204,267862	Empty	571,5006003	412,0576062	174,2142773	0,144664059	FALSE	430,1054358	0,099981658	430,1054358	380,1807812	206,0911024	0,171133939	FALSE	31,6%	498,3177362	272,4678611	0,226251874	FALSE	41,4%
4511	3	1204,267862	Empty	581,4009931	398,5273848	174,2142773	0,144664059	FALSE	393,1446001	0,099981658	393,1446001	435,6985684	206,0911024	0,171133939	FALSE	36,2%	276,8431868	272,4678611	0,226251874	FALSE	23,0%
4512	1	1238,598868	Empty	595,8163548	429,1840974	155,9673663	0,12592242	FALSE	435,4197365	0,108130945	435,4197365	390,2720216	184,2145511	0,148728177	FALSE	31,5%	428,1576332	192,46802	0,155391729	FALSE	34,6%
4512	2	1238,598868	Empty	608,9509878	412,969222	155,9673663	0,12592242	FALSE	389,8107528	0,108130945	389,8107528	398,8754775	184,2145511	0,148728177	FALSE	32,2%	336,409569	192,46802	0,155391729	FALSE	27,2%
4512	3	1238,598868	Empty	552,4352145	396,4678481	155,9673663	0,12592242	FALSE	413,3683783	0,108130945	413,3683783	449,4513684	1								

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4527	1	1289,305769	Empty	579,126453	377,0023583	144,6790078	0,112214659	FALSE	405,8365835	0,082324248	405,8365835	357,5228188	164,1585473	0,127323208	FALSE	27,7%	434,0237242	160,5259131	0,124505697	FALSE	33,7%
4527	2	1289,305769	Empty	753,3994157	494,1902735	144,6790078	0,112214659	FALSE	465,9394511	0,082324248	465,9394511	465,1099625	164,1585473	0,127323208	FALSE	36,1%	421,2583206	160,5259131	0,124505697	FALSE	32,7%
4527	3	1289,305769	Empty	649,6548599	418,1131733	144,6790078	0,112214659	FALSE	417,5297345	0,082324248	417,5297345	466,6729878	164,1585473	0,127323208	FALSE	36,2%	434,0237242	160,5259131	0,124505697	FALSE	33,7%
4528	1	932,4123752	Non-Empty	788,2402796	341,4443883	0	0	TRUE	327,248484	0	329,5493346	310,2501636	0	0	TRUE	33,3%	319,2042365	0	0	TRUE	34,2%
4528	2	932,4123752	Non-Empty	755,302021	314,9513124	0	0	TRUE	307,2005908	0	315,7784306	297,2857156	0	0	TRUE	31,9%	285,6037906	0	0	TRUE	30,6%
4528	3	932,4123752	Non-Empty	686,6700354	276,0166744	0	0	TRUE	297,9633003	0	287,08461	324,876496	0	0	TRUE	34,8%	327,604348	0	0	TRUE	35,1%
4529	1	1477,109579	Empty	710,0960017	464,6836888	210,6718365	0,142624379	FALSE	463,1047393	0,025700959	463,1047393	492,5691121	240,0615725	0,162521167	FALSE	33,3%	580,8857894	265,4073335	0,179680193	FALSE	39,3%
4529	2	1477,109579	Empty	688,9333889	456,0546751	210,6718365	0,142624379	FALSE	467,0093246	0,025700959	467,0093246	477,8893374	240,0615725	0,162521167	FALSE	32,4%	414,918421	265,4073335	0,179680193	FALSE	28,1%
4529	3	1477,109579	Empty	809,5802784	556,371215	210,6718365	0,142624379	FALSE	546,995515	0,025700959	546,995515	506,6511294	240,0615725	0,162521167	FALSE	34,3%	481,3053684	265,4073335	0,179680193	FALSE	32,6%
4530	1	1343,99511	Empty	657,6134912	443,2447781	175,5984263	0,130654066	FALSE	441,2964574	0,012595165	441,2964574	420,5997754	200,4180529	0,149121118	FALSE	31,3%	348,4431767	262,5908754	0,195380826	FALSE	25,9%
4530	2	1343,99511	Empty	696,2138822	479,8809787	175,5984263	0,130654066	FALSE	475,9684677	0,012595165	475,9684677	445,2880094	200,4180529	0,149121118	FALSE	33,1%	497,7759667	262,5908754	0,195380826	FALSE	37,0%
4530	3	1343,99511	Empty	627,428914	420,8693532	175,5984263	0,130654066	FALSE	426,7301849	0,012595165	426,7301849	478,1073252	200,4180529	0,149121118	FALSE	35,6%	497,7759667	262,5908754	0,195380826	FALSE	37,0%
4531	1	591,3084337	Non-Empty	362,8964833	156,8455376	0	0	TRUE	154,5471303	0	178,4382249	167,9555619	0	0	TRUE	28,4%	223,135258	0	0	TRUE	37,7%
4531	2	591,3084337	Non-Empty	416,5328404	234,266909	0	0	TRUE	255,7535159	0	204,8115209	192,7795128	0	0	TRUE	32,6%	200,8217322	0	0	TRUE	34,0%
4531	3	591,3084337	Non-Empty	423,1367252	200,1959871	0	0	TRUE	181,0077875	0	208,0586879	230,5733589	0	0	TRUE	39,0%	167,3514435	0	0	TRUE	28,3%
4532	1	571,4381332	Non-Empty	478,3525026	195,1855119	0	0	TRUE	178,3454172	0	199,4637383	194,9962253	0	0	TRUE	34,1%	240,9678875	0	0	TRUE	42,2%
4532	2	571,4381332	Non-Empty	425,3194453	166,0224464	0	0	TRUE	173,0523435	0	177,3499795	173,3777621	0	0	TRUE	30,3%	172,1199196	0	0	TRUE	30,1%
4532	3	571,4381332	Non-Empty	466,746873	210,2301748	0	0	TRUE	220,0403725	0	194,6244153	203,0641458	0	0	TRUE	35,5%	158,3503261	0	0	TRUE	27,7%
4533	1	1600,12996	Empty	833,1628097	553,6852994	231,1072294	0,144430287	FALSE	537,7251709	0,059402105	537,7251709	537,4064643	223,9977462	0,139987221	FALSE	33,6%	571,4749857	263,8985214	0,16492318	FALSE	35,7%
4533	2	1600,12996	Empty	795,9579894	529,046827	231,1072294	0,144430287	FALSE	525,6530464	0,059402105	525,6530464	513,4086205	223,9977462	0,139987221	FALSE	32,1%	473,5078453	263,8985214	0,16492318	FALSE	29,6%
4533	3	1600,12996	Empty	761,5613064	517,3978336	231,1072294	0,144430287	FALSE	536,7517426	0,059402105	536,7517426	549,3148751	223,9977462	0,139987221	FALSE	34,3%	555,1471289	263,8985214	0,16492318	FALSE	34,7%
4534	1	817,6726094	Non-Empty	667,9575609	282,0358927	0	0	TRUE	319,380386	0	261,6422347	253,8662891	0	0	TRUE	31,0%	306,6272285	0	0	TRUE	37,5%
4534	2	817,6726094	Non-Empty	695,2711914	254,611285	0	0	TRUE	237,21754	0	272,341117	264,2472031	0	0	TRUE	32,3%	272,5575365	0	0	TRUE	33,3%
4534	3	817,6726094	Non-Empty	724,2423414	281,0254317	0	0	TRUE	261,0746834	0	283,689577	299,5591172	0	0	TRUE	36,6%	238,4878444	0	0	TRUE	29,2%
4535	1	1390,642231	Empty	680,8104914	430,4695388	169,5599842	0,121929264	FALSE	424,3395257	0,066233704	424,3395257	439,9691545	189,0291889	0,135929418	FALSE	31,6%	446,3789877	272,2006722	0,195737384	FALSE	32,1%
4535	2	1390,642231	Empty	713,1630576	480,3459853	169,5599842	0,121929264	FALSE	491,7398525	0,066233704	491,7398525	460,8767806	189,0291889	0,135929418	FALSE	33,1%	377,7052973	272,2006722	0,195737384	FALSE	27,2%
4535	3	1390,642231	Empty	729,3015004	479,8267068	169,5599842	0,121929264	FALSE	474,5628527	0,066233704	474,5628527	489,7962957	189,0291889	0,135929418	FALSE	35,2%	566,5579459	272,2006722	0,195737384	FALSE	40,7%
4536	1	973,0027016	Non-Empty	831,9258258	281,2476966	0	0	TRUE	297,6150761	0	302,7015451	308,9246049	0	0	TRUE	31,7%	344,1107116	0	0	TRUE	35,4%
4536	2	973,0027016	Non-Empty	884,0442008	313,4392601	0	0	TRUE	309,8798281	0	321,66515	328,7280712	0	0	TRUE	33,7%	355,9765982	0	0	TRUE	36,6%
4536	3	973,0027016	Non-Empty	958,1692009	378,3157449	0	0	TRUE	365,5077974	0	348,630065	335,8000256	0	0	TRUE	34,5%	272,9153919	0	0	TRUE	28,0%
4537	1	900,9068429	Empty	479,1235879	287,7382068	70,66390624	0,078436419	FALSE	286,48186	0,024879834	286,48186	284,2509814	78,4996106	0,087133993	FALSE	31,6%	311,0273624	90,06919564	0,099976148	FALSE	34,5%
4537	2	900,9068429	Empty	507,428187	314,9112287	70,66390624	0,078436419	FALSE	312,5233047	0,024879834	312,5233047	301,0433295	78,4996106	0,087133993	FALSE	33,4%	311,0273624	90,06919564	0,099976148	FALSE	34,5%
4537	3	900,9068429	Empty	484,7421709	298,2574074	70,66390624	0,078436419	FALSE	301,9016783	0,024879834	301,9016783	315,6125321	78,4996106	0,087133993	FALSE	35,0%	278,852118	90,06919564	0,099976148	FALSE	31,0%
4538	1	803,2217107	Non-Empty	684,7589758	294,7176911	0	0	TRUE	304,4351715	0	274,6635824	256,6701981	0	0	TRUE	32,0%	233,1933999	0	0	TRUE	29,0%
4538	2	803,2217107	Non-Empty	693,72753	271,1642832	0	0	TRUE	248,3598014	0	278,260958	260,0319074	0	0	TRUE	32,4%	310,9245332	0	0	TRUE	38,7%
4538	3	803,2217107	Non-Empty	624,0115	237,3397364	0	0	TRUE	250,4267378	0	250,2971704	286,5196052	0	0	TRUE	35,7%	259,1037777	0	0	TRUE	32,3%
4539	1	1576,966534	Empty	771,5324865	537,3378355	231,4138899	0,146746228	FALSE	554,4217064	0,068053266	554,4217064	513,74316	255,0085654	0,161708292	FALSE	32,6%	559,5687703	368,5365773	0,233699682	FALSE	35,5%
4539	2	1576,966534	Empty	761,3502849	502,6820929	231,4138899	0,146746228	FALSE	495,2924229	0,068053266	495,2924229	506,9631001	255,0085654	0,161708292	FALSE	32,1%	644,3519173	368,5365773	0,233699682	FALSE	40,9%
4539	3	1576,966534	Empty	797,9193288	536,946606	231,4138899	0,146746228	FALSE	527,2524052	0,068053266	527,2524052	556,2602744	255,0085654	0,161708292	FALSE	35,3%	373,0458469	368,5365773	0,233699682	FALSE	23,7%
4540	1	1256,249899	Empty	566,2545499	391,5962172	169,6969762	0,135082181	FALSE	421,6515997	0,143998538	421,6515997	387,4525426	173,8406509	0,138380629	FALSE	30,8%	456,8181453	248,2970219	0,197649386	FALSE	36,4%
4540	2	1256,249899	Empty	617,0810002	391,5035774	169,6969762	0,135082181	FALSE	370,6398698	0,143998538	370,6398698	422,2299009	173,8406509	0,138380629	FALSE	33,6%	444,1287523	248,2970219	0,197649386	FALSE	35,4%
4540	3	1256,249899	Empty	687,0554948	473,1501048	169,6969762	0,135082181	FALSE	463,95843	0,143998538	463,95843	446,5674559	173,8406509	0,138380629	FALSE	35,5%	355,3030019	248,2970219	0,197649386	FALSE	28,3%
4541	1	746,2423123	Non-Empty	510,531351	220,5836473	0	0	TRUE	224,0263235	0	234,2455391	229,4258694	0	0	TRUE	30,7%	266,5151115	0	0	TRUE	35,7%
4541	2	746,2423123	Non-Empty	570,7791843	276,3467127	0	0	TRUE	275,304621	0	261,8888683	256,5004291	0	0	TRUE	34,4%	259,8522337	0	0	TRUE	34,8%
4541	3	746,2423123	Non-Empty	545,1029166	249,3119523	0	0	TRUE	246,9113678	0	250,1079049	260,3160138	0	0	TRUE	34,9%	219,874967	0	0	TRUE	29,5%
4542	1	1045,809314	Empty	605,6483705	404,5424181	116,0341693	0,110951555	FALSE	395,7792816	0,049153012	395,7792816	369,982186	127,9011027	0,122298684	FALSE	35,4%	386,9494462	124,1432022	0,11870539	FALSE	37,0%
4542	2	1045,809314	Empty	487,9248233	309,9334378	116,0341693	0,110951555	FALSE	324,2848681	0,049153012	324,2848681	298,0665044	127,9011027	0,122298684	FALSE	28,5%	355,5751668	124,1432022	0,11870539	FALSE	34,0%
4542	3	1045,809314	Empty	529,2645676	331,3334581	116,0341693	0,110951555	FALSE	325,7451643	0,049153012	325,7451643	377,7606236	127,9011027	0,122298684	FALSE</						

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4558	1	1140,589317	Empty	524,9043479	363,7853176	160,101042	0,140366949	FALSE	351,1455656	0,087944065	351,1455656	378,6068561	176,5714268	0,15480719	FALSE	33,2%	364,9885814	238,3561775	0,208976337	FALSE	32,0%
4558	2	1140,589317	Empty	496,3637923	354,9269496	160,101042	0,140366949	FALSE	361,9693851	0,087944065	361,9693851	358,020915	176,5714268	0,15480719	FALSE	31,4%	433,4239404	238,3561775	0,208976337	FALSE	38,0%
4558	3	1140,589317	Empty	564,7590116	421,8770497	160,101042	0,140366949	FALSE	427,4743661	0,087944065	427,4743661	403,9615457	176,5714268	0,15480719	FALSE	35,4%	342,176795	238,3561775	0,208976337	FALSE	30,0%
4559	1	1287,886685	Empty	652,0215288	441,6660367	183,1628573	0,142219699	FALSE	448,7461236	0,04395859	448,7461236	420,8083432	204,0205508	0,158414986	FALSE	32,7%	380,5119751	244,3169189	0,189703738	FALSE	29,5%
4559	2	1287,886685	Empty	645,6527143	426,697845	183,1628573	0,142219699	FALSE	425,1785548	0,04395859	425,1785548	416,6979723	204,0205508	0,158414986	FALSE	32,4%	453,687355	244,3169189	0,189703738	FALSE	35,2%
4559	3	1287,886685	Empty	642,5191793	419,5228034	183,1628573	0,142219699	FALSE	413,9620066	0,04395859	413,9620066	450,3803696	204,0205508	0,158414986	FALSE	35,0%	453,687355	244,3169189	0,189703738	FALSE	35,2%
4560	1	968,2353415	Non-Empty	898,4700002	372,573497	0	0	TRUE	357,5496102	0	347,8534488	326,9676987	0	0	TRUE	33,8%	341,0829044	0	0	TRUE	35,2%
4560	2	968,2353415	Non-Empty	797,7940427	306,6958319	0	0	TRUE	326,4702376	0	308,875543	290,3300968	0	0	TRUE	30,0%	352,0855787	0	0	TRUE	36,4%
4560	3	968,2353415	Non-Empty	804,5891479	288,9660126	0	0	TRUE	284,2154937	0	311,5063496	350,9375459	0	0	TRUE	36,2%	275,0668584	0	0	TRUE	28,4%
4561	1	1392,940726	Empty	693,0175688	480,7612783	176,8987427	0,126996605	FALSE	509,0293286	0,123809317	509,0293286	445,1223115	212,5377095	0,15258202	FALSE	32,0%	500,3767656	231,0194025	0,165850131	FALSE	35,9%
4561	2	1392,940726	Empty	692,4148075	437,3748278	176,8987427	0,126996605	FALSE	422,8591889	0,123809317	422,8591889	444,7351604	212,5377095	0,15258202	FALSE	31,9%	513,900462	231,0194025	0,165850131	FALSE	36,9%
4561	3	1392,940726	Empty	729,0813721	474,8046199	176,8987427	0,126996605	FALSE	461,0522084	0,123809317	461,0522084	503,083254	212,5377095	0,15258202	FALSE	36,1%	378,6634983	231,0194025	0,165850131	FALSE	27,2%
4562	1	1090,043934	Empty	561,2090925	384,2272157	166,4971772	0,152743547	FALSE	367,170308	0,16983963	367,170308	367,397682	206,0794074	0,189056056	FALSE	33,7%	387,1184066	185,4142371	0,170097949	FALSE	35,5%
4562	2	1090,043934	Empty	481,959456	355,0988341	166,4971772	0,152743547	FALSE	388,1631813	0,16983963	388,1631813	315,5166039	206,0794074	0,189056056	FALSE	28,9%	336,1817742	185,4142371	0,170097949	FALSE	30,8%
4562	3	1090,043934	Empty	526,6502933	350,7178847	166,4971772	0,152743547	FALSE	334,7104452	0,16983963	334,7104452	407,1296486	206,0794074	0,189056056	FALSE	37,3%	366,7437536	185,4142371	0,170097949	FALSE	33,6%
4563	1	1245,565836	Empty	640,0744546	431,2482248	188,3153764	0,151188617	FALSE	419,7621826	0,099404152	419,7621826	427,4041141	202,6145816	0,162668705	FALSE	34,3%	487,395327	263,36216	0,211439775	FALSE	39,1%
4563	2	1245,565836	Empty	554,4553937	384,531941	188,3153764	0,151188617	FALSE	411,9486758	0,099404152	411,9486758	370,2327357	202,6145816	0,162668705	FALSE	29,7%	446,7790497	263,36216	0,211439775	FALSE	35,9%
4563	3	1245,565836	Empty	643,05655	429,7856699	188,3153764	0,151188617	FALSE	413,8549773	0,099404152	413,8549773	447,9289858	202,6145816	0,162668705	FALSE	36,0%	311,3914589	263,36216	0,211439775	FALSE	25,0%
4564	1	813,7577978	Non-Empty	718,5342879	265,8894177	0	0	TRUE	264,5626813	0	269,7373203	269,6044207	0	0	TRUE	33,1%	233,9553669	0	0	TRUE	28,8%
4564	2	813,7577978	Non-Empty	681,6481081	247,4712337	0	0	TRUE	264,6124931	0	255,8902716	255,7641945	0	0	TRUE	31,4%	284,8152292	0	0	TRUE	35,0%
4564	3	813,7577978	Non-Empty	767,5298034	300,3971465	0	0	TRUE	284,5826234	0	288,130206	288,3891826	0	0	TRUE	35,4%	294,9872017	0	0	TRUE	36,3%
4565	1	643,7567064	Non-Empty	521,5446386	178,8371239	0	0	TRUE	182,747842	0	199,4212309	188,8840733	0	0	TRUE	29,3%	225,3148472	0	0	TRUE	35,0%
4565	2	643,7567064	Non-Empty	618,2378272	271,9937198	0	0	TRUE	272,3678453	0	236,3934731	223,9027504	0	0	TRUE	34,8%	209,2209296	0	0	TRUE	32,5%
4565	3	643,7567064	Non-Empty	543,8289392	192,9258627	0	0	TRUE	188,641019	0	207,9420024	230,9698827	0	0	TRUE	35,9%	209,2209296	0	0	TRUE	32,5%
4566	1	517,3703063	Non-Empty	470,8566094	178,2994313	0	0	TRUE	180,0218775	0	173,9791681	169,8966025	0	0	TRUE	32,8%	175,9059041	0	0	TRUE	34,0%
4566	2	517,3703063	Non-Empty	456,0896781	166,5573365	0	0	TRUE	171,3046191	0	168,5228607	164,5683319	0	0	TRUE	31,8%	155,2110919	0	0	TRUE	30,0%
4566	3	517,3703063	Non-Empty	473,2628916	172,5135385	0	0	TRUE	166,0438097	0	174,8682774	182,9053718	0	0	TRUE	35,4%	186,2533103	0	0	TRUE	36,0%
4567	1	714,464713	Non-Empty	631,9477051	238,9438397	0	0	TRUE	219,4722624	0	246,0431526	239,096888	0	0	TRUE	33,5%	202,7534996	0	0	TRUE	28,4%
4567	2	714,464713	Non-Empty	584,2908461	228,6226594	0	0	TRUE	246,4867608	0	227,4883834	221,0659551	0	0	TRUE	30,9%	241,3732139	0	0	TRUE	33,8%
4567	3	714,464713	Non-Empty	618,8230262	246,8982139	0	0	TRUE	248,5056898	0	240,933177	254,3018699	0	0	TRUE	35,6%	270,3379995	0	0	TRUE	37,8%
4568	1	556,6271647	Non-Empty	516,2219136	199,2094013	0	0	TRUE	188,6261723	0	194,688134	191,1898442	0	0	TRUE	34,3%	211,1344418	0	0	TRUE	37,9%
4568	2	556,6271647	Non-Empty	455,1767931	160,9776055	0	0	TRUE	173,2077013	0	171,6655534	168,5809491	0	0	TRUE	30,3%	159,9503347	0	0	TRUE	28,7%
4568	3	556,6271647	Non-Empty	504,516308	196,4401579	0	0	TRUE	194,7932911	0	190,2734773	196,8563715	0	0	TRUE	35,4%	185,5423882	0	0	TRUE	33,3%
4569	1	869,1169299	Non-Empty	745,0379746	288,7271176	0	0	TRUE	279,5919391	0	292,9124397	277,9713189	0	0	TRUE	32,0%	325,9188487	0	0	TRUE	37,5%
4569	2	869,1169299	Non-Empty	761,1512463	309,0739229	0	0	TRUE	304,172278	0	299,2473889	283,9831298	0	0	TRUE	32,7%	325,9188487	0	0	TRUE	37,5%
4569	3	869,1169299	Non-Empty	704,4547444	271,3158894	0	0	TRUE	285,3527128	0	276,9571014	307,1624813	0	0	TRUE	35,3%	217,2792325	0	0	TRUE	25,0%
4570	1	1594,856233	Empty	710,1883251	493,9052167	264,8300605	0,166052623	FALSE	530,9542658	0,104486419	530,9542658	479,7798362	278,9554411	0,174909459	FALSE	30,1%	398,7140584	360,0212189	0,22573898	FALSE	25,0%
4570	2	1594,856233	Empty	820,0193793	547,0364898	264,8300605	0,166052623	FALSE	527,385776	0,104486419	527,385776	553,9780782	278,9554411	0,174909459	FALSE	34,7%	624,0741783	360,0212189	0,22573898	FALSE	39,1%
4570	3	1594,856233	Empty	824,6450014	553,9145179	264,8300605	0,166052623	FALSE	536,5161918	0,104486419	536,5161918	561,0983191	278,9554411	0,174909459	FALSE	35,2%	572,0679968	360,0212189	0,22573898	FALSE	35,9%
4571	1	986,0864349	Non-Empty	908,51047	346,341958	0	0	TRUE	328,7072308	0	341,9758088	326,2357128	0	0	TRUE	33,1%	346,7556694	0	0	TRUE	35,2%
4571	2	986,0864349	Non-Empty	880,828911	338,2673556	0	0	TRUE	340,239585	0	331,5569091	316,2955818	0	0	TRUE	32,1%	314,2473254	0	0	TRUE	31,9%
4571	3	986,0864349	Non-Empty	830,3484083	301,4771213	0	0	TRUE	317,1396191	0	312,5545361	343,5551403	0	0	TRUE	34,8%	325,0834401	0	0	TRUE	33,0%
4572	1	905,7526332	Non-Empty	834,2558615	299,4552492	0	0	TRUE	299,4372189	0	301,035548	298,8827556	0	0	TRUE	33,0%	327,6126546	0	0	TRUE	36,2%
4572	2	905,7526332	Non-Empty	836,4695171	290,6262392	0	0	TRUE	279,5655434	0	301,8343306	299,6758259	0	0	TRUE	33,1%	337,2483209	0	0	TRUE	37,2%
4572	3	905,7526332	Non-Empty	839,3750009	315,6711448	0	0	TRUE	326,7498709	0	302,8827546	307,1940517	0	0	TRUE	33,9%	240,8916578	0	0	TRUE	26,6%
4573	1	708,7338524	Non-Empty	635,5100849	267,7884856	0	0	TRUE	278,0776095	0	244,4192618	228,5823045	0	0	TRUE	32,3%	225,5062258	0	0	TRUE	31,8%
4573	2	708,7338524	Non-Empty	634,3573547	235,1507453	0	0	TRUE	215,954859	0	243,975918	228,1676868	0	0	TRUE	32,2%	193,2910506	0	0	TRUE	27,3%
4573	3	708,7338524	Non-Empty	572,8985822	204,7946215	0	0	TRUE	214,7013839	0	220,3386726	251,9838611	0	0	TRUE	35,6%	289,936576	0	0	TRUE	40,9%
4574	1	825,9703739	Empty	380,5636044	249,0740438	95,64138043	0,115792749	FALSE	242,2047095	0,091716994	242,2047095	267,3303059	119,5604174	0,14475146	FALSE	32,4%	281,1814039	147,4277158	0,178490319	FALSE	34,0%
4574	2	825,9703739	Empty	380,3285694	259,929483	95,64138043	0,115792749	FALSE	264,1506229	0,091716994	264,1506229	267,1652034	119,5604174	0,14475146	FALSE	32,3%	281,1814039	147,4277158	0		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4589	1	831,2587777	Non-Empty	755,1146407	260,9575141	0	0	TRUE	259,5757543	0	271,7785691	273,9607905	0	0	TRUE	33,0%	283,1760671	0	0	TRUE	34,1%
4589	2	831,2587777	Non-Empty	754,5470293	267,5980145	0	0	TRUE	273,4243664	0	271,5742761	273,7548572	0	0	TRUE	32,9%	310,5802027	0	0	TRUE	37,4%
4589	3	831,2587777	Non-Empty	799,923208	302,7032491	0	0	TRUE	298,258657	0	287,9059326	283,54313	0	0	TRUE	34,1%	237,5025079	0	0	TRUE	28,6%
4590	1	615,2470104	Non-Empty	517,1962899	222,0666081	0	0	TRUE	224,2139467	0	211,1393412	193,5367392	0	0	TRUE	31,5%	237,1264519	0	0	TRUE	38,5%
4590	2	615,2470104	Non-Empty	517,0960057	224,3429404	0	0	TRUE	228,8668953	0	211,0984014	193,4992125	0	0	TRUE	31,5%	230,7176289	0	0	TRUE	37,5%
4590	3	615,2470104	Non-Empty	472,7857759	168,8374619	0	0	TRUE	162,1661684	0	193,0092678	228,2110587	0	0	TRUE	37,1%	147,4029296	0	0	TRUE	24,0%
4591	1	795,6595989	Non-Empty	754,8270173	295,3516858	0	0	TRUE	287,8248831	0	279,1466021	267,4894715	0	0	TRUE	33,6%	241,3798783	0	0	TRUE	30,3%
4591	2	795,6595989	Non-Empty	717,2954169	260,8538352	0	0	TRUE	256,3607823	0	265,2668409	254,1893276	0	0	TRUE	31,9%	241,3798783	0	0	TRUE	30,3%
4591	3	795,6595989	Non-Empty	679,3827512	239,4540779	0	0	TRUE	251,4739335	0	251,2461559	273,9807998	0	0	TRUE	34,4%	312,8998422	0	0	TRUE	39,3%
4592	1	1088,394975	Empty	526,2291925	370,1288327	150,3838567	0,138170297	FALSE	366,4969695	0,040809631	366,4969695	374,2504723	166,8240908	0,153275322	FALSE	34,4%	265,4621891	248,3138141	0,228146785	FALSE	24,4%
4592	2	1088,394975	Empty	465,5955555	316,2318819	150,3838567	0,138170297	FALSE	319,336705	0,040809631	319,336705	331,1282594	166,8240908	0,153275322	FALSE	30,4%	411,4663932	248,3138141	0,228146785	FALSE	37,8%
4592	3	1088,394975	Empty	553,9757174	402,0342609	150,3838567	0,138170297	FALSE	402,561301	0,040809631	402,561301	383,0162438	166,8240908	0,153275322	FALSE	35,2%	411,4663932	248,3138141	0,228146785	FALSE	37,8%
4593	1	918,0043048	Non-Empty	764,0778237	273,1312136	0	0	TRUE	274,5822625	0	292,8471641	290,2725439	0	0	TRUE	31,6%	289,8960963	0	0	TRUE	31,6%
4593	2	918,0043048	Non-Empty	820,9600083	310,6229552	0	0	TRUE	292,6835611	0	314,6483288	311,8820395	0	0	TRUE	34,0%	314,0541043	0	0	TRUE	34,2%
4593	3	918,0043048	Non-Empty	810,1594497	334,250136	0	0	TRUE	350,7384812	0	310,508812	315,8497214	0	0	TRUE	34,4%	314,0541043	0	0	TRUE	34,2%
4594	1	1140,643727	Empty	562,3218404	389,2722439	151,2556163	0,132605486	FALSE	404,533748	0,079706935	404,533748	359,4983048	181,0295554	0,158708237	FALSE	31,5%	376,0363936	164,4914666	0,144209329	FALSE	33,0%
4594	2	1140,643727	Empty	578,4851771	382,5025913	151,2556163	0,132605486	FALSE	374,8311061	0,079706935	374,8311061	369,831697	181,0295554	0,158708237	FALSE	32,4%	376,0363936	164,4914666	0,144209329	FALSE	33,0%
4594	3	1140,643727	Empty	564,7700116	368,8688921	151,2556163	0,132605486	FALSE	361,2788731	0,079706935	361,2788731	411,3137254	181,0295554	0,158708237	FALSE	36,1%	388,57094	164,4914666	0,144209329	FALSE	34,1%
4595	1	843,7708252	Non-Empty	649,1732407	234,1114595	0	0	TRUE	252,44354	0	255,4876864	254,2689916	0	0	TRUE	30,1%	305,9828267	0	0	TRUE	36,3%
4595	2	843,7708252	Non-Empty	742,6788279	292,3926791	0	0	TRUE	275,5003919	0	292,2876107	290,8933776	0	0	TRUE	34,5%	231,8051718	0	0	TRUE	27,5%
4595	3	843,7708252	Non-Empty	752,1003417	217,2666866	0	0	TRUE	315,8268933	0	295,9955281	298,6084561	0	0	TRUE	35,4%	305,9828267	0	0	TRUE	36,3%
4596	1	859,9572842	Non-Empty	766,9501523	265,2714266	0	0	TRUE	276,8191846	0	274,8517559	274,7776497	0	0	TRUE	32,0%	229,988576	0	0	TRUE	26,7%
4596	2	859,9572842	Non-Empty	807,2748751	289,7950475	0	0	TRUE	285,5417035	0	289,3029178	289,2249153	0	0	TRUE	33,6%	329,9836091	0	0	TRUE	38,4%
4596	3	859,9572842	Non-Empty	825,4117078	304,8908101	0	0	TRUE	297,5963961	0	295,8026105	295,9547193	0	0	TRUE	34,4%	299,9850991	0	0	TRUE	34,9%
4597	1	1704,252397	Empty	920,0541453	595,3293119	216,3954747	0,126973842	FALSE	568,1955836	0,074803177	568,1955836	576,3624501	253,2511066	0,148599531	FALSE	33,8%	522,85956217	242,8520983	0,14249773	FALSE	30,7%
4597	2	1704,252397	Empty	844,862472	566,1147053	216,3954747	0,126973842	FALSE	584,9580436	0,074803177	584,9580436	529,2590733	253,2511066	0,148599531	FALSE	31,1%	561,6286307	242,8520983	0,14249773	FALSE	33,0%
4597	3	1704,252397	Empty	832,1090945	542,8083795	216,3954747	0,126973842	FALSE	551,0987696	0,074803177	551,0987696	598,6308733	253,2511066	0,148599531	FALSE	35,1%	619,7281443	242,8520983	0,14249773	FALSE	36,4%
4598	1	695,5799121	Non-Empty	668,4622735	269,1017745	0	0	TRUE	249,7847802	0	253,2909999	233,0410717	0	0	TRUE	33,5%	178,136319	0	0	TRUE	25,6%
4598	2	695,5799121	Non-Empty	638,9385292	245,1648447	0	0	TRUE	231,434665	0	242,1039831	222,7484265	0	0	TRUE	32,0%	245,9977738	0	0	TRUE	35,4%
4598	3	695,5799121	Non-Empty	528,3096237	181,3132929	0	0	TRUE	214,3604669	0	200,1849291	239,7904139	0	0	TRUE	34,5%	271,4458194	0	0	TRUE	39,0%
4599	1	727,6471581	Non-Empty	686,5217736	245,0077353	0	0	TRUE	248,1473124	0	242,3087302	241,7766263	0	0	TRUE	33,2%	257,3386291	0	0	TRUE	35,4%
4599	2	727,6471581	Non-Empty	673,5727641	230,1834231	0	0	TRUE	231,4476974	0	237,7383608	237,2162934	0	0	TRUE	32,6%	230,7173916	0	0	TRUE	31,7%
4599	3	727,6471581	Non-Empty	701,5134662	252,4559997	0	0	TRUE	248,0521483	0	247,6000671	248,6542384	0	0	TRUE	34,2%	239,5911374	0	0	TRUE	32,9%
4600	1	1117,408523	Non-Empty	832,0335539	350,4323057	0	0	TRUE	344,8745508	0	365,2355683	364,4052295	0	0	TRUE	32,6%	376,0509451	0	0	TRUE	33,7%
4600	2	1117,408523	Non-Empty	832,3271073	369,3263303	0	0	TRUE	382,3690466	0	365,3644287	364,5337969	0	0	TRUE	32,6%	386,7952578	0	0	TRUE	34,6%
4600	3	1117,408523	Non-Empty	881,1783412	397,6498866	0	0	TRUE	390,1649253	0	386,8085256	388,4694962	0	0	TRUE	34,8%	354,5623197	0	0	TRUE	31,7%
4601	1	639,8769315	Non-Empty	539,6768549	218,3106705	0	0	TRUE	195,2376074	0	225,0043027	212,6620036	0	0	TRUE	33,2%	191,2275887	0	0	TRUE	29,9%
4601	2	639,8769315	Non-Empty	510,7098158	208,5383118	0	0	TRUE	204,6599289	0	212,9272451	201,2474163	0	0	TRUE	31,5%	250,0668468	0	0	TRUE	39,1%
4601	3	639,8769315	Non-Empty	484,3696244	213,0279492	0	0	TRUE	239,9793952	0	201,9453838	225,9675117	0	0	TRUE	35,3%	198,582496	0	0	TRUE	31,0%
4602	1	1802,028049	Empty	967,4017113	614,3349086	225,8669333	0,125340409	FALSE	594,7716028	0,060907431	594,7716028	601,846327	257,7341128	0,143024473	FALSE	33,4%	665,9668877	262,4746102	0,145655119	FALSE	37,0%
4602	2	1802,028049	Empty	920,6664498	604,6382577	225,8669333	0,125340409	FALSE	622,1135624	0,060907431	622,1135624	572,7710782	257,7341128	0,143024473	FALSE	31,8%	568,0305807	262,4746102	0,145655119	FALSE	31,5%
4602	3	1802,028049	Empty	914,4703785	583,0548828	225,8669333	0,125340409	FALSE	585,142884	0,060907431	585,142884	627,410644	257,7341128	0,143024473	FALSE	34,8%	568,0305807	262,4746102	0,145655119	FALSE	31,5%
4603	1	1265,738083	Empty	780,7725584	525,9232801	119,0502362	0,09405598	FALSE	520,1185935	0,072972401	520,1185935	450,9227215	179,1969667	0,141575077	FALSE	35,6%	391,7760734	238,3436148	0,188304056	FALSE	31,0%
4603	2	1265,738083	Empty	628,1342798	375,8452331	119,0502362	0,09405598	FALSE	372,6007782	0,072972401	372,6007782	362,7689215	179,1969667	0,141575077	FALSE	28,7%	406,8443839	238,3436148	0,188304056	FALSE	32,1%
4603	3	1265,738083	Empty	603,9650203	363,9695701	119,0502362	0,09405598	FALSE	373,0187116	0,072972401	373,0187116	452,0464403	179,1969667	0,141575077	FALSE	35,7%	467,117626	238,3436148	0,188304056	FALSE	36,9%
4604	1	1506,30959	Empty	754,297588	493,7646086	191,3975149	0,127063863	FALSE	497,7777646	0,012870306	497,7777646	478,2217009	206,7685005	0,137268263	FALSE	31,7%	513,5146328	201,4180032	0,133716206	FALSE	34,1%
4604	2	1506,30959	Empty	795,988538	523,2441687	191,3975149	0,127063863	FALSE	515,0459346	0,012870306	515,0459346	504,6535991	206,7685005	0,137268263	FALSE	33,5%	513,5146328	201,4180032	0,133716206	FALSE	34,1%
4604	3	1506,30959	Empty	749,6618694	489,3008123	191,3975149	0,127063863	FALSE	493,4858904	0,012870306	493,4858904	523,4342897	206,7685005	0,137268263	FALSE	34,7%	479,280324	201,4180032	0,133716206	FALSE	31,8%
4605	1	978,1233926	Non-Empty	860,5911126	313,4150684	0	0	TRUE	322,6579881	0	317,9612327	316,7060799	0	0	TRUE	32,4%	347,4912052	0	0	TRUE	35,5%
4605	2	978,1233926	Non-Empty	882,1614698	315,1667182	0	0	TRUE	304,5909306	0	325,9307984	324,6441856	0	0	TRUE	33,2%	321,751116	0	0	TRUE	32,9%
4605	3	978,1233926	Non-Empty	904,6277019	349,5416059	0															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4620	1	1511,82302	Empty	729,5641215	476,2476079	199,8729679	0,132206591	FALSE	477,0815718	0,018730854	477,0815718	474,9415791	216,0671952	0,142918313	FALSE	31,4%	493,3317224	250,3365795	0,165585903	FALSE	32,6%
4620	2	1511,82302	Empty	786,0095313	530,2872125	199,8729679	0,132206591	FALSE	528,7153713	0,018730854	528,7153713	511,6871801	216,0671952	0,142918313	FALSE	33,8%	477,4177958	250,3365795	0,165585903	FALSE	31,6%
4620	3	1511,82302	Empty	758,7007999	505,2881997	199,8729679	0,132206591	FALSE	506,026077	0,018730854	506,026077	525,1942609	216,0671952	0,142918313	FALSE	34,7%	541,0735019	250,3365795	0,165585903	FALSE	35,8%
4621	1	773,4513973	Non-Empty	676,752558	265,2721847	0	0	TRUE	275,5635963	0	242,5098243	0	0	0	TRUE	31,4%	242,1918517	0	0	TRUE	31,3%
4621	2	773,4513973	Non-Empty	708,3053531	274,3472526	0	0	TRUE	262,1609371	0	268,7113494	253,8165607	0	0	TRUE	32,8%	281,2550536	0	0	TRUE	36,4%
4621	3	773,4513973	Non-Empty	653,7088413	233,319601	0	0	TRUE	235,7268639	0	247,9989514	277,1250124	0	0	TRUE	35,8%	250,0044921	0	0	TRUE	32,3%
4622	1	1690,733972	Empty	876,0747461	582,9577605	227,7859441	0,13472607	FALSE	572,537665	0,086485748	572,537665	542,4330617	223,0673104	0,131935192	FALSE	32,1%	557,9422107	207,5581614	0,122762164	FALSE	33,0%
4622	2	1690,733972	Empty	903,2650957	596,1650641	227,7859441	0,13472607	FALSE	571,7619226	0,086485748	571,7619226	559,26832	223,0673104	0,131935192	FALSE	33,1%	557,9422107	207,5581614	0,122762164	FALSE	33,0%
4622	3	1690,733972	Empty	759,4848002	511,6111472	227,7859441	0,13472607	FALSE	546,4343842	0,086485748	546,4343842	589,0325901	223,0673104	0,131935192	FALSE	34,8%	574,8495504	207,5581614	0,122762164	FALSE	34,0%
4623	1	1119,860152	Empty	587,1057093	397,9183118	145,242653	0,129697135	FALSE	376,4988498	0,108320861	376,4988498	387,1283484	166,9309463	0,1490641	FALSE	34,6%	338,5623717	160,6538488	0,143458849	FALSE	30,2%
4623	2	1119,860152	Empty	490,0860337	344,8433807	145,242653	0,129697135	FALSE	367,3686631	0,108320861	367,3686631	323,1550875	166,9309463	0,1490641	FALSE	28,9%	390,6488904	160,6538488	0,143458849	FALSE	34,9%
4623	3	1119,860152	Empty	545,9722158	377,0984599	145,242653	0,129697135	FALSE	375,9926396	0,108320861	375,9926396	409,5767166	166,9309463	0,1490641	FALSE	36,6%	390,6488904	160,6538488	0,143458849	FALSE	34,9%
4624	1	604,7486696	Non-Empty	542,0366505	194,8255602	0	0	TRUE	194,1387238	0	199,3502833	194,1395575	0	0	TRUE	32,1%	251,3241224	0	0	TRUE	41,6%
4624	2	604,7486696	Non-Empty	564,9474197	215,99338	0	0	TRUE	213,5635944	0	207,7764079	202,3454354	0	0	TRUE	33,5%	172,7853342	0	0	TRUE	28,6%
4624	3	604,7486696	Non-Empty	537,3373614	193,9297294	0	0	TRUE	197,0463513	0	197,6219784	208,2636767	0	0	TRUE	34,4%	180,639213	0	0	TRUE	29,9%
4625	1	1335,171387	Empty	687,2933274	452,8274727	137,5101082	0,102990604	FALSE	442,3211389	0,041339366	442,3211389	431,07462	154,9950836	0,116086283	FALSE	32,3%	409,8050791	159,6245837	0,119553628	FALSE	30,7%
4625	2	1335,171387	Empty	675,0020131	451,1472418	137,5101082	0,102990604	FALSE	451,2519914	0,041339366	451,2519914	423,3654317	154,9950836	0,116086283	FALSE	31,7%	462,6831538	159,6245837	0,119553628	FALSE	34,7%
4625	3	1335,171387	Empty	644,7546088	431,1966722	137,5101082	0,102990604	FALSE	441,5982565	0,041339366	441,5982565	480,731335	154,9950836	0,116086283	FALSE	36,0%	462,6831538	159,6245837	0,119553628	FALSE	34,7%
4626	1	1261,745614	Empty	638,6108695	432,9108659	166,3181253	0,131815893	FALSE	430,290764	0,040506589	430,290764	414,0676235	173,540395	0,137539923	FALSE	32,8%	364,2152288	223,3927897	0,177050578	FALSE	28,9%
4626	2	1261,745614	Empty	625,1150885	415,6544177	166,3181253	0,131815893	FALSE	409,2736488	0,040506589	409,2736488	405,3171211	173,540395	0,137539923	FALSE	32,1%	429,2536625	223,3927897	0,177050578	FALSE	34,0%
4626	3	1261,745614	Empty	607,2593615	413,1803305	166,3181253	0,131815893	FALSE	422,1812013	0,040506589	422,1812013	442,3608695	173,540395	0,137539923	FALSE	35,1%	468,2767227	223,3927897	0,177050578	FALSE	37,1%
4627	1	755,8060638	Non-Empty	671,0452	238,5123697	0	0	TRUE	239,3929226	0	246,6773499	235,9156402	0	0	TRUE	31,2%	323,9168845	0	0	TRUE	42,9%
4627	2	755,8060638	Non-Empty	727,6740937	294,0002812	0	0	TRUE	293,7398518	0	267,494227	255,8243464	0	0	TRUE	33,8%	232,5557119	0	0	TRUE	30,8%
4627	3	755,8060638	Non-Empty	657,3269197	223,2934129	0	0	TRUE	222,6732893	0	241,6344869	264,0660771	0	0	TRUE	34,9%	199,3334674	0	0	TRUE	26,4%
4628	1	821,2180536	Non-Empty	717,6968366	307,7137965	0	0	TRUE	307,0038607	0	287,6402397	265,8824237	0	0	TRUE	32,4%	297,6915444	0	0	TRUE	36,3%
4628	2	821,2180536	Non-Empty	706,8207197	288,0348235	0	0	TRUE	278,5220316	0	283,2812837	261,8531899	0	0	TRUE	31,9%	256,6306417	0	0	TRUE	31,3%
4628	3	821,2180536	Non-Empty	624,5198104	225,4694336	0	0	TRUE	235,6921612	0	250,2965302	293,48244	0	0	TRUE	35,7%	266,8958674	0	0	TRUE	32,5%
4629	1	1529,232361	Empty	814,9468308	554,3083282	224,3405287	0,1467014	FALSE	547,7604819	0,012851594	547,7604819	529,4239136	234,8096784	0,153547417	FALSE	34,6%	515,109848	249,123744	0,162907711	FALSE	33,7%
4629	2	1529,232361	Empty	723,0411395	476,8179018	224,3405287	0,1467014	FALSE	484,6853204	0,012851594	484,6853204	469,7180912	234,8096784	0,153547417	FALSE	30,7%	482,9154825	249,123744	0,162907711	FALSE	31,6%
4629	3	1529,232361	Empty	753,5163597	498,1061312	224,3405287	0,1467014	FALSE	496,786559	0,012851594	496,786559	530,0903565	234,8096784	0,153547417	FALSE	34,7%	531,2070308	249,123744	0,162907711	FALSE	34,7%
4630	1	1188,970408	Empty	682,7279949	419,0985225	126,8361587	0,106677305	FALSE	404,6238341	0,056689736	404,6238341	414,7762755	130,7132632	0,109938197	FALSE	34,9%	363,685066	146,9134329	0,123563574	FALSE	30,6%
4630	2	1188,970408	Empty	591,5589133	363,2656232	126,8361587	0,106677305	FALSE	384,1271171	0,056689736	384,1271171	359,3885187	130,7132632	0,109938197	FALSE	30,2%	447,6123889	146,9134329	0,123563574	FALSE	37,6%
4630	3	1188,970408	Empty	662,1478523	406,6062625	126,8361587	0,106677305	FALSE	400,2194569	0,056689736	400,2194569	414,805614	130,7132632	0,109938197	FALSE	34,9%	377,6729532	146,9134329	0,123563574	FALSE	31,8%
4631	1	1134,998319	Empty	592,7958458	367,6150056	141,2493406	0,124448943	FALSE	357,5066419	0,069736709	357,5066419	357,0129254	146,5742628	0,129140511	FALSE	31,5%	329,9413717	150,0841016	0,132232884	FALSE	29,1%
4631	2	1134,998319	Empty	644,5605741	420,8659521	141,2493406	0,124448943	FALSE	412,2438066	0,069736709	412,2438066	388,1883752	146,5742628	0,129140511	FALSE	34,2%	395,9296461	150,0841016	0,132232884	FALSE	34,9%
4631	3	1134,998319	Empty	542,8593282	346,5173609	141,2493406	0,124448943	FALSE	365,2478702	0,069736709	365,2478702	389,7970182	146,5742628	0,129140511	FALSE	34,3%	409,1273009	150,0841016	0,132232884	FALSE	36,0%
4632	1	826,5206054	Non-Empty	620,633582	222,8498362	0	0	TRUE	249,756733	0	244,2008318	245,7419153	0	0	TRUE	29,7%	293,6323204	0	0	TRUE	35,5%
4632	2	826,5206054	Non-Empty	720,6923328	283,9914411	0	0	TRUE	271,981192	0	283,5709705	285,360508	0	0	TRUE	34,5%	239,2559647	0	0	TRUE	28,9%
4632	3	826,5206054	Non-Empty	759,2666185	319,6793282	0	0	TRUE	304,7826805	0	298,7488032	295,4181821	0	0	TRUE	35,7%	293,6323204	0	0	TRUE	35,5%
4633	1	1124,87775	Non-Empty	837,091782	377,6759804	0	0	TRUE	377,6764226	0	376,1799202	370,2494478	0	0	TRUE	32,9%	374,9592499	0	0	TRUE	33,3%
4633	2	1124,87775	Non-Empty	839,3232675	378,6619836	0	0	TRUE	377,4169436	0	377,1827255	371,2364439	0	0	TRUE	33,0%	364,8252161	0	0	TRUE	32,4%
4633	3	1124,87775	Non-Empty	826,7114316	368,5397856	0	0	TRUE	369,7843835	0	371,5151039	383,391858	0	0	TRUE	34,1%	385,0932837	0	0	TRUE	34,2%
4634	1	433,6719241	Non-Empty	347,192074	140,4619602	0	0	TRUE	148,9118304	0	139,5161211	136,9723261	0	0	TRUE	31,6%	139,5725733	0	0	TRUE	32,2%
4634	2	433,6719241	Non-Empty	360,0258487	135,7184538	0	0	TRUE	126,591043	0	144,673262	142,035437	0	0	TRUE	32,8%	169,4809819	0	0	TRUE	39,1%
4634	3	433,6719241	Non-Empty	371,9939535	157,4915101	0	0	TRUE	158,1690507	0	149,4825411	154,664161	0	0	TRUE	35,7%	124,618369	0	0	TRUE	28,7%
4635	1	954,8146561	Non-Empty	759,0188428	274,1364447	0	0	TRUE	276,7965835	0	299,7888824	299,0236791	0	0	TRUE	31,3%	253,0834028	0	0	TRUE	26,5%
4635	2	954,8146561	Non-Empty	775,5205867	311,9685511	0	0	TRUE	335,9590523	0	306,306559	305,5247195	0	0	TRUE	32,0%	356,6175221	0	0	TRUE	37,3%
4635	3	954,8146561	Non-Empty	882,9028372	368,7096603	0	0	TRUE	342,0590203	0	348,7192147	350,2662574	0	0	TRUE	36,7%	345,1137311	0	0	TRUE	36,1%
4636	1	617,4122265	Non-Empty	571,0362668	233,6287225	0	0	TRUE	222,9010954	0	220,7044579	205,1129774									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4651	1	801,9727537	Non-Empty	620,1296439	217,5782501	0	0	TRUE	211,9905637	0	249,5539631	234,9685841	0	0	TRUE	29,3%	274,3591	0	0	TRUE	34,2%
4651	2	801,9727537	Non-Empty	720,797709	338,2008861	0	0	TRUE	352,5677706	0	290,0650318	273,1119513	0	0	TRUE	34,1%	253,2545538	0	0	TRUE	31,6%
4651	3	801,9727537	Non-Empty	651,9365234	246,1936176	0	0	TRUE	237,4144194	0	262,3537589	293,8922183	0	0	TRUE	36,6%	274,3591	0	0	TRUE	34,2%
4652	1	730,3587687	Non-Empty	607,4439382	279,4511661	0	0	TRUE	283,8432607	0	256,8153826	233,9237348	0	0	TRUE	32,0%	230,6396112	0	0	TRUE	31,6%
4652	2	730,3587687	Non-Empty	592,8447017	243,8973496	0	0	TRUE	227,3348643	0	250,6431117	228,3016391	0	0	TRUE	31,3%	288,299514	0	0	TRUE	39,5%
4652	3	730,3587687	Non-Empty	527,224729	207,010253	0	0	TRUE	219,1806437	0	222,9002744	268,1333948	0	0	TRUE	36,7%	211,4196436	0	0	TRUE	28,9%
4653	1	1418,242426	Empty	735,1458083	437,4526081	151,4854542	0,106812102	FALSE	427,4474909	0,080070041	427,4474909	471,8361515	206,5641384	0,145647976	FALSE	33,3%	418,0082941	232,3701599	0,163843752	FALSE	29,5%
4653	2	1418,242426	Empty	736,5450532	452,0390833	151,4854542	0,106812102	FALSE	455,2211963	0,080070041	455,2211963	472,7342241	206,5641384	0,145647976	FALSE	33,3%	552,3681029	232,3701599	0,163843752	FALSE	38,9%
4653	3	1418,242426	Empty	809,6158138	528,750735	151,4854542	0,106812102	FALSE	535,5737392	0,080070041	535,5737392	473,6720509	206,5641384	0,145647976	FALSE	33,4%	447,8660294	232,3701599	0,163843752	FALSE	31,6%
4654	1	825,8819266	Non-Empty	757,8503161	265,1502492	0	0	TRUE	268,8717739	0	270,3478267	264,7013234	0	0	TRUE	32,1%	295,6861219	0	0	TRUE	35,8%
4654	2	825,8819266	Non-Empty	789,4082989	287,3932097	0	0	TRUE	281,7997119	0	281,6055011	275,7238691	0	0	TRUE	33,4%	275,2939755	0	0	TRUE	33,3%
4654	3	825,8819266	Non-Empty	767,8880861	273,3384677	0	0	TRUE	275,2104408	0	273,9285988	285,4567341	0	0	TRUE	34,6%	254,9018292	0	0	TRUE	30,9%
4655	1	748,2231406	Non-Empty	663,7302912	226,0273588	0	0	TRUE	229,2706967	0	239,7892359	237,4727341	0	0	TRUE	31,7%	241,6137225	0	0	TRUE	32,3%
4655	2	748,2231406	Non-Empty	703,554725	264,2437006	0	0	TRUE	265,8789466	0	254,1768127	251,7213187	0	0	TRUE	33,6%	272,7896867	0	0	TRUE	36,5%
4655	3	748,2231406	Non-Empty	703,7769355	257,9520812	0	0	TRUE	253,0734973	0	254,2570919	259,0290878	0	0	TRUE	34,6%	233,8197314	0	0	TRUE	31,3%
4656	1	985,9673535	Empty	494,603196	326,2426729	121,7415046	0,123474174	FALSE	342,9929977	0,084631392	342,9929977	309,8650774	138,1191001	0,140084861	FALSE	31,4%	318,6965183	129,2876592	0,131127728	FALSE	32,3%
4656	2	985,9673535	Empty	519,3067128	328,0371402	121,7415046	0,123474174	FALSE	321,8784155	0,084631392	321,8784155	325,3416396	138,1191001	0,140084861	FALSE	33,0%	338,6150507	129,2876592	0,131127728	FALSE	34,3%
4656	3	985,9673535	Empty	527,3899883	331,6875404	121,7415046	0,123474174	FALSE	321,0959404	0,084631392	321,0959404	350,7606365	138,1191001	0,140084861	FALSE	35,6%	328,6557845	129,2876592	0,131127728	FALSE	33,3%
4657	1	764,9200705	Non-Empty	693,7090364	270,0531173	0	0	TRUE	276,8674895	0	258,0479078	250,4790708	0	0	TRUE	32,7%	228,6874437	0	0	TRUE	29,9%
4657	2	764,9200705	Non-Empty	673,9980207	244,0321571	0	0	TRUE	244,5365847	0	250,7157785	243,3619703	0	0	TRUE	31,8%	283,8878612	0	0	TRUE	37,1%
4657	3	764,9200705	Non-Empty	688,623887	250,834796	0	0	TRUE	245,159962	0	256,1563515	271,0790293	0	0	TRUE	35,4%	252,3447655	0	0	TRUE	33,0%
4658	1	1201,030592	Empty	542,8090489	362,4651653	148,2600357	0,123444013	FALSE	390,9006752	0,111558655	390,9006752	354,9305664	155,7946346	0,129717457	FALSE	29,6%	456,3916248	165,012683	0,137392573	FALSE	38,0%
4658	2	1201,030592	Empty	618,2647766	407,0589825	148,2600357	0,123444013	FALSE	404,6325818	0,111558655	404,6325818	404,269361	155,7946346	0,129717457	FALSE	33,7%	384,3297893	165,012683	0,137392573	FALSE	32,0%
4658	3	1201,030592	Empty	666,2949467	431,5064439	148,2600357	0,123444013	FALSE	405,4973347	0,111558655	405,4973347	441,8306643	155,7946346	0,129717457	FALSE	36,0%	360,3091775	165,012683	0,137392573	FALSE	30,0%
4659	1	1592,077821	Empty	756,8648431	488,0381766	212,3138702	0,133356465	FALSE	482,5415977	0,058522581	482,5415977	502,1335066	218,138076	0,137014707	FALSE	31,5%	480,940175	236,2717821	0,148404669	FALSE	30,2%
4659	2	1592,077821	Empty	816,9074081	550,2391983	212,3138702	0,133356465	FALSE	546,9010761	0,058522581	546,9010761	541,9680741	218,138076	0,137014707	FALSE	34,0%	514,108463	236,2717821	0,148404669	FALSE	32,3%
4659	3	1592,077821	Empty	808,2958321	553,8004458	212,3138702	0,133356465	FALSE	562,6351471	0,058522581	562,6351471	547,9762401	218,138076	0,137014707	FALSE	34,4%	597,0291828	236,2717821	0,148404669	FALSE	37,5%
4660	1	985,6467726	Non-Empty	861,0984829	335,3495491	0	0	TRUE	341,6021017	0	328,7581723	318,1339688	0	0	TRUE	32,3%	294,6779011	0	0	TRUE	29,9%
4660	2	985,6467726	Non-Empty	852,318413	326,8491589	0	0	TRUE	333,3813913	0	325,4060357	314,8901604	0	0	TRUE	31,9%	355,6457427	0	0	TRUE	36,1%
4660	3	985,6467726	Non-Empty	868,2343361	323,4480646	0	0	TRUE	310,6632796	0	331,4825646	352,6226434	0	0	TRUE	35,8%	335,3231288	0	0	TRUE	34,0%
4661	1	986,0935243	Empty	532,1328775	346,4802651	101,3903741	0,102820241	FALSE	331,5340171	0,096823717	331,5340171	324,6051265	137,6754756	0,139617057	FALSE	32,9%	299,6950907	116,0516972	0,117688327	FALSE	30,4%
4661	2	986,0935243	Empty	486,71176	333,1829989	101,3903741	0,102820241	FALSE	350,3606022	0,096823717	350,3606022	296,8978974	137,6754756	0,139617057	FALSE	30,1%	348,0330086	116,0516972	0,117688327	FALSE	35,3%
4661	3	986,0935243	Empty	479,36798	306,4302603	101,3903741	0,102820241	FALSE	304,198905	0,096823717	304,198905	364,5905004	137,6754756	0,139617057	FALSE	37,0%	338,365425	116,0516972	0,117688327	FALSE	34,3%
4662	1	690,4487005	Non-Empty	580,2915151	202,6913522	0	0	TRUE	201,6132707	0	210,1418861	221,9784463	0	0	TRUE	32,1%	225,1463154	0	0	TRUE	32,6%
4662	2	690,4487005	Non-Empty	603,9222792	223,5921493	0	0	TRUE	219,7841007	0	229,1065544	231,0179035	0	0	TRUE	33,5%	262,6707013	0	0	TRUE	38,0%
4662	3	690,4487005	Non-Empty	635,80115	264,165199	0	0	TRUE	269,0513292	0	241,20026	237,4523507	0	0	TRUE	34,4%	202,6316839	0	0	TRUE	29,3%
4663	1	813,9213074	Empty	487,4975196	390,0916681	101,9648522	0,125276057	FALSE	387,0300013	0,097001752	387,0300013	305,9733771	181,2373272	0,222671806	FALSE	37,6%	207,8096955	279,4010088	0,343277669	FALSE	25,5%
4663	2	813,9213074	Empty	306,6118265	214,0517911	101,9648522	0,125276057	FALSE	215,8359403	0,097001752	215,8359403	192,4421197	181,2373272	0,222671806	FALSE	23,6%	285,7383313	279,4010088	0,343277669	FALSE	35,1%
4663	3	813,9213074	Empty	302,8445152	209,7778482	101,9648522	0,125276057	FALSE	211,0553658	0,097001752	211,0553658	315,5058106	181,2373272	0,222671806	FALSE	38,8%	320,3732806	279,4010088	0,343277669	FALSE	39,4%
4664	1	1073,097295	Empty	461,0683874	320,1142413	129,917523	0,121067795	FALSE	321,5383695	0,027598893	321,5383695	316,4516246	147,0904167	0,137070904	FALSE	29,5%	361,8583902	210,172774	0,195856214	FALSE	33,7%
4664	2	1073,097295	Empty	528,2354789	383,5027981	129,917523	0,121067795	FALSE	381,1483918	0,027598893	381,1483918	362,5513698	147,0904167	0,137070904	FALSE	33,8%	299,4690126	210,172774	0,195856214	FALSE	27,9%
4664	3	1073,097295	Empty	510,9282519	369,4802556	129,917523	0,121067795	FALSE	370,4105337	0,027598893	370,4105337	394,0943006	147,0904167	0,137070904	FALSE	36,7%	411,7698923	210,172774	0,195856214	FALSE	38,4%
4665	1	1015,945843	Empty	568,5450777	392,7708692	106,3353999	0,104666406	FALSE	371,720615	0,055283368	371,720615	360,4605041	126,4533918	0,124468634	FALSE	35,5%	335,1573916	129,8273112	0,127789598	FALSE	33,0%
4665	2	1015,945843	Empty	442,0024807	300,3498385	106,3353999	0,104666406	FALSE	313,4211506	0,055283368	313,4211506	280,2318466	126,4533918	0,124468634	FALSE	27,6%	293,2627177	129,8273112	0,127789598	FALSE	28,9%
4665	3	1015,945843	Empty	469,5701481	322,8251357	106,3353999	0,104666406	FALSE	330,8040777	0,055283368	330,8040777	375,2534926	126,4533918	0,124468634	FALSE	36,9%	387,5257341	129,8273112	0,127789598	FALSE	38,1%
4666	1	842,2352006	Non-Empty	726,0597863	276,0939921	0	0	TRUE	283,2645807	0	276,2472255	270,0082487	0	0	TRUE	32,1%	330,4973572	0	0	TRUE	39,2%
4666	2	842,2352006	Non-Empty	735,2447554	280,6640689	0	0	TRUE	283,2197652	0	279,7418719	273,4239693	0	0	TRUE	32,5%	245,2077166	0	0	TRUE	29,1%
4666	3	842,2352006	Non-Empty	752,3398076	285,4771397	0	0	TRUE	275,7508457	0	286,2461032	298,8029826	0	0	TRUE	35,5%	266,5301268	0	0	TRUE	31,6%
4667	1	791,1050107	Non-Empty	651,1828575	246,447776	0	0	TRUE	263,619792	0											

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4682	1	1159,589176	Empty	611,8698241	367,2346949	104,2024634	0,089861535	FALSE	371,9717305	0,009815828	371,9717305	375,5103088	103,5072368	0,089261989	FALSE	32,4%	408,4916417	138,7968947	0,119694886	FALSE	35,2%
4682	2	1159,589176	Empty	623,1622712	377,8637332	104,2024634	0,089861535	FALSE	381,93736	0,009815828	381,93736	382,4405906	103,5072368	0,089261989	FALSE	33,0%	342,605893	138,7968947	0,119694886	FALSE	29,5%
4682	3	1159,589176	Empty	672,6735757	414,4907484	104,2024634	0,089861535	FALSE	405,680086	0,009815828	405,680086	401,638277	103,5072368	0,089261989	FALSE	34,6%	408,4916417	138,7968947	0,119694886	FALSE	35,2%
4683	1	768,8496755	Non-Empty	695,0972189	269,4867362	0	0	TRUE	268,0575117	0	261,79435	258,9014985	0	0	TRUE	33,7%	206,0834182	0	0	TRUE	26,8%
4683	2	768,8496755	Non-Empty	636,6980404	225,3250035	0	0	TRUE	238,1332246	0	239,7994771	237,149671	0	0	TRUE	30,8%	277,419986	0	0	TRUE	36,1%
4683	3	768,8496755	Non-Empty	709,5981904	274,0379358	0	0	TRUE	262,6589392	0	267,2558485	272,798506	0	0	TRUE	35,5%	285,3462713	0	0	TRUE	37,1%
4684	1	634,890528	Non-Empty	553,5735513	207,979541	0	0	TRUE	200,5096918	0	213,1003981	216,7480011	0	0	TRUE	34,1%	196,7266425	0	0	TRUE	31,0%
4684	2	634,890528	Non-Empty	511,1144052	177,492331	0	0	TRUE	181,9944178	0	196,7555765	200,1234081	0	0	TRUE	31,5%	214,6108827	0	0	TRUE	33,8%
4684	3	634,890528	Non-Empty	584,5750545	249,418656	0	0	TRUE	252,3864184	0	225,0345533	218,0191188	0	0	TRUE	34,3%	223,5530028	0	0	TRUE	35,2%
4685	1	977,7613215	Non-Empty	945,9482932	366,2797298	0	0	TRUE	351,7873025	0	345,9825708	339,124022	0	0	TRUE	34,7%	319,2690029	0	0	TRUE	32,7%
4685	2	977,7613215	Non-Empty	830,9176593	285,8042772	0	0	TRUE	305,8670314	0	303,9098753	297,8853502	0	0	TRUE	30,5%	359,1776283	0	0	TRUE	36,7%
4685	3	977,7613215	Non-Empty	896,4237776	325,6773145	0	0	TRUE	320,1069876	0	327,8688754	340,7519493	0	0	TRUE	34,9%	299,3146903	0	0	TRUE	30,6%
4686	1	1309,549088	Empty	645,7326541	390,4290854	122,2306453	0,093337964	FALSE	392,4671701	0,035777266	392,4671701	402,9152195	127,381718	0,097271434	FALSE	30,8%	505,9621477	251,790837	0,192272928	FALSE	38,6%
4686	2	1309,549088	Empty	722,6470901	461,7009032	122,2306453	0,093337964	FALSE	458,0963697	0,035777266	458,0963697	450,9072123	127,381718	0,097271434	FALSE	34,4%	476,1996684	251,790837	0,192272928	FALSE	36,4%
4686	3	1309,549088	Empty	713,1943042	457,4190996	122,2306453	0,093337964	FALSE	458,9855484	0,035777266	458,9855484	455,7266564	127,381718	0,097271434	FALSE	34,8%	327,387272	251,790837	0,192272928	FALSE	25,0%
4687	1	796,1658671	Non-Empty	744,3654922	273,1239462	0	0	TRUE	255,4174644	0	274,7803922	267,992968	0	0	TRUE	33,7%	236,9541271	0	0	TRUE	29,8%
4687	2	796,1658671	Non-Empty	710,3611004	258,2423386	0	0	TRUE	259,6586409	0	262,2277682	255,7504098	0	0	TRUE	32,1%	284,3449525	0	0	TRUE	35,7%
4687	3	796,1658671	Non-Empty	702,0444669	264,7995823	0	0	TRUE	281,0897618	0	259,1577068	272,4224893	0	0	TRUE	34,2%	274,8667875	0	0	TRUE	34,5%
4688	1	853,0897808	Non-Empty	765,3862061	301,5937648	0	0	TRUE	278,1428799	0	300,3260251	297,0852166	0	0	TRUE	34,8%	296,3364502	0	0	TRUE	34,7%
4688	2	853,0897808	Non-Empty	657,1805669	235,4070962	0	0	TRUE	253,9751817	0	257,8677612	255,0851185	0	0	TRUE	29,9%	251,436988	0	0	TRUE	29,5%
4688	3	853,0897808	Non-Empty	751,5476767	316,0889198	0	0	TRUE	320,9717192	0	294,8959945	300,9194457	0	0	TRUE	35,3%	305,3163426	0	0	TRUE	35,8%
4689	1	1110,137614	Empty	505,4155364	333,6853944	127,8206481	0,115139462	FALSE	335,6876463	0,173458435	335,6876463	347,5795803	167,0591584	0,15048509	FALSE	31,3%	362,9296045	177,7420122	0,160108089	FALSE	32,7%
4689	2	1110,137614	Empty	550,0441903	352,9268506	127,8206481	0,115139462	FALSE	329,5419049	0,173458435	329,5419049	378,271175	167,0591584	0,15048509	FALSE	34,1%	373,6040046	177,7420122	0,160108089	FALSE	33,7%
4689	3	1110,137614	Empty	575,8750688	423,5253686	127,8206481	0,115139462	FALSE	444,9080625	0,173458435	444,9080625	384,2868584	167,0591584	0,15048509	FALSE	34,6%	373,6040046	177,7420122	0,160108089	FALSE	33,7%
4690	1	792,7068513	Non-Empty	625,2723113	223,376488	0	0	TRUE	238,442827	0	242,5422102	233,506021	0	0	TRUE	29,5%	264,2356171	0	0	TRUE	33,3%
4690	2	792,7068513	Non-Empty	722,2822907	309,1896637	0	0	TRUE	313,0591989	0	280,1722386	269,7340994	0	0	TRUE	34,0%	274,3985254	0	0	TRUE	34,6%
4690	3	792,7068513	Non-Empty	696,0387362	260,1406996	0	0	TRUE	241,2048253	0	269,9924024	289,4667309	0	0	TRUE	36,5%	254,0727087	0	0	TRUE	32,1%
4691	1	915,7929821	Empty	441,054387	275,1769214	105,8843815	0,115620433	FALSE	262,027189	0,179988654	262,027189	290,6433606	127,8475964	0,139603162	FALSE	31,7%	246,9554109	113,5485649	0,123989337	FALSE	27,0%
4691	2	915,7929821	Empty	431,1329977	306,0686382	105,8843815	0,115620433	FALSE	333,732012	0,179988654	333,732012	284,1054234	127,8475964	0,139603162	FALSE	31,0%	298,4044548	113,5485649	0,123989337	FALSE	32,6%
4691	3	915,7929821	Empty	501,788797	334,5474225	105,8843815	0,115620433	FALSE	320,0337811	0,179988654	320,0337811	341,0441981	127,8475964	0,139603162	FALSE	37,2%	370,4331164	113,5485649	0,123989337	FALSE	40,4%
4692	1	930,0085439	Non-Empty	755,8219286	291,0971523	0	0	TRUE	279,0811646	0	307,2025378	300,4522735	0	0	TRUE	32,3%	316,5986532	0	0	TRUE	34,0%
4692	2	930,0085439	Non-Empty	767,5432205	314,8382988	0	0	TRUE	314,8421658	0	311,966637	305,1116895	0	0	TRUE	32,8%	267,1301137	0	0	TRUE	28,7%
4692	3	930,0085439	Non-Empty	764,769761	324,0730929	0	0	TRUE	336,0852134	0	310,8393691	324,4445808	0	0	TRUE	34,9%	346,279777	0	0	TRUE	37,2%
4693	1	1035,550743	Empty	406,5843171	291,8569571	138,0071177	0,133269295	FALSE	283,5712663	0,113149216	283,5712663	317,4286526	171,0420311	0,165170111	FALSE	30,7%	378,8600281	234,3514734	0,226306123	FALSE	36,6%
4693	2	1035,550743	Empty	434,3372836	331,6327406	138,0071177	0,133269295	FALSE	335,3698667	0,113149216	335,3698667	339,0959584	171,0420311	0,165170111	FALSE	32,7%	340,9740253	234,3514734	0,226306123	FALSE	32,9%
4693	3	1035,550743	Empty	513,9541501	412,0610457	138,0071177	0,133269295	FALSE	416,6096104	0,113149216	416,6096104	379,0261324	171,0420311	0,165170111	FALSE	36,6%	315,71669	234,3514734	0,226306123	FALSE	30,5%
4694	1	683,6605174	Non-Empty	595,6959163	227,2418033	0	0	TRUE	220,8980528	0	230,0879717	222,0814285	0	0	TRUE	32,5%	202,8443293	0	0	TRUE	29,7%
4694	2	683,6605174	Non-Empty	601,6801608	227,0924353	0	0	TRUE	214,6150723	0	232,3993904	224,3124151	0	0	TRUE	32,8%	285,4846117	0	0	TRUE	41,8%
4694	3	683,6605174	Non-Empty	572,6155279	229,3262789	0	0	TRUE	248,1473924	0	221,1731553	237,2666738	0	0	TRUE	34,7%	195,3315764	0	0	TRUE	28,6%
4695	1	685,3378072	Non-Empty	637,279535	293,9212488	0	0	TRUE	284,8500103	0	258,708702	241,8958163	0	0	TRUE	35,3%	259,95572	0	0	TRUE	37,9%
4695	2	685,3378072	Non-Empty	504,1360188	184,3965766	0	0	TRUE	198,9441821	0	204,6580313	191,3577748	0	0	TRUE	27,9%	212,6910436	0	0	TRUE	31,0%
4695	3	685,3378072	Non-Empty	546,7833965	207,0199818	0	0	TRUE	201,5436147	0	221,9710739	252,0842161	0	0	TRUE	36,8%	212,6910436	0	0	TRUE	31,0%
4696	1	1487,426673	Empty	749,9330268	477,9856209	181,9409873	0,122319299	FALSE	479,8211794	0,006717453	479,8211794	474,3498042	190,9453201	0,12837293	FALSE	31,9%	485,370809	205,8084269	0,138365427	FALSE	32,6%
4696	2	1487,426673	Empty	790,8550427	514,0729427	181,9409873	0,122319299	FALSE	511,073807	0,006717453	511,073807	500,2339159	190,9453201	0,12837293	FALSE	33,6%	485,370809	205,8084269	0,138365427	FALSE	32,6%
4696	3	1487,426673	Empty	767,9874962	495,3681091	181,9409873	0,122319299	FALSE	496,5316864	0,006717453	496,5316864	512,8429527	190,9453201	0,12837293	FALSE	34,5%	516,6850548	205,8084269	0,138365427	FALSE	34,7%
4697	1	1396,662165	Empty	648,0277444	429,7466517	187,0052508	0,133894406	FALSE	423,6416043	0,067541409	423,6416043	435,1300504	184,9140323	0,132397109	FALSE	31,2%	414,850148	186,9141047	0,133829146	FALSE	29,7%
4697	2	1396,662165	Empty	703,1807966	486,0623016	187,0052508	0,133894406	FALSE	481,119852	0,067541409	481,119852	472,1635735	184,9140323	0,132397109	FALSE	33,8%	470,1635011	186,9141047	0,133829146	FALSE	33,7%
4697	3	1396,662165	Empty	681,98176	480,8532117	187,0052508	0,133894406	FALSE	491,9007087	0,067541409	491,9007087	489,3685411	184,9140323	0,132397109	FALSE	35,0%	511,6485159	186,9141047	0,133829146	FALSE	36,6%
4698	1	605,4160748	Non-Empty	519,2523873	207,974789	0	0	TRUE	224,2049856	0	197,9696016	190,4835859	0	0	TRUE	31,5%	199,25086	0	0	TRUE	32,9%
4698	2	605,4160748	Non-Empty	544,272157	201,9398557	0	0	TRUE	187,1153491	0	207,5										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4713	1	531,6098538	Non-Empty	465,7215489	195,7395061	0	0	TRUE	185,2836845	0	188,9668252	184,7581973	0	0	TRUE	34,8%	193,8160925	0	0	TRUE	36,5%
4713	2	531,6098538	Non-Empty	396,1570299	142,4405362	0	0	TRUE	148,2502638	0	160,7409758	157,1609878	0	0	TRUE	29,6%	177,2032846	0	0	TRUE	33,3%
4713	3	531,6098538	Non-Empty	448,3099387	193,4298114	0	0	TRUE	198,0759055	0	181,9020528	189,6906687	0	0	TRUE	35,7%	160,5904767	0	0	TRUE	30,2%
4714	1	639,7382382	Non-Empty	487,053759	179,6722085	0	0	TRUE	184,8861182	0	197,5163557	195,8074004	0	0	TRUE	30,6%	193,1285248	0	0	TRUE	30,2%
4714	2	639,7382382	Non-Empty	544,7303082	225,8064926	0	0	TRUE	219,4781372	0	220,9060978	218,9947692	0	0	TRUE	34,2%	235,3753895	0	0	TRUE	36,8%
4714	3	639,7382382	Non-Empty	545,7405514	234,2595371	0	0	TRUE	235,3739828	0	221,3157847	224,9360686	0	0	TRUE	35,2%	211,2343239	0	0	TRUE	33,0%
4715	1	1570,432904	Empty	815,9935035	529,4291254	190,9276432	0,121576441	FALSE	533,8265584	0,03769847	533,8265584	505,5997913	208,3510762	0,13267111	FALSE	32,2%	572,5536628	211,1046279	0,134424481	FALSE	36,5%
4715	2	1570,432904	Empty	843,1039466	536,9413683	190,9276432	0,121576441	FALSE	521,7406012	0,03769847	521,7406012	522,3977613	208,3510762	0,13267111	FALSE	33,3%	490,7602824	211,1046279	0,134424481	FALSE	31,3%
4715	3	1570,432904	Empty	784,2208871	504,06241	190,9276432	0,121576441	FALSE	514,8657441	0,03769847	514,8657441	542,4353511	208,3510762	0,13267111	FALSE	34,5%	507,1189585	211,1046279	0,134424481	FALSE	32,3%
4716	1	1135,127154	Empty	520,1820669	350,0600202	175,0286497	0,15419299	FALSE	351,632395	0,038766804	351,632395	367,5737267	207,5418962	0,182835813	FALSE	32,4%	382,2366946	255,7019684	0,225262842	FALSE	33,7%
4716	2	1135,127154	Empty	542,7041274	368,1768984	175,0286497	0,15419299	FALSE	365,3440911	0,038766804	365,3440911	383,4883808	207,5418962	0,182835813	FALSE	33,8%	416,9854851	255,7019684	0,225262842	FALSE	36,7%
4716	3	1135,127154	Empty	587,3242244	416,8902352	175,0286497	0,15419299	FALSE	418,1506676	0,038766804	418,1506676	384,0650463	207,5418962	0,182835813	FALSE	33,8%	335,9049741	255,7019684	0,225262842	FALSE	29,6%
4717	1	1179,327265	Empty	556,7247867	372,13699	131,759141	0,111723984	FALSE	379,6061	0,096597052	379,6061	344,6904379	145,3016767	0,123207256	FALSE	29,2%	416,2331524	131,8256393	0,111780371	FALSE	35,3%
4717	2	1179,327265	Empty	664,2900928	443,3909496	131,759141	0,111723984	FALSE	414,5487131	0,096597052	414,5487131	411,2883933	145,3016767	0,123207256	FALSE	34,9%	393,1090884	131,8256393	0,111780371	FALSE	33,3%
4717	3	1179,327265	Empty	534,483106	363,7993257	131,759141	0,111723984	FALSE	385,1724521	0,096597052	385,1724521	423,348434	145,3016767	0,123207256	FALSE	35,9%	369,9850244	131,8256393	0,111780371	FALSE	31,4%
4718	1	841,3443662	Empty	499,8350847	305,8253121	47,41790888	0,056359691	FALSE	301,6131622	0,150314087	301,6131622	283,7212231	44,07096508	0,052381601	FALSE	33,7%	311,6090245	75,07993039	0,08923805	FALSE	37,0%
4718	2	841,3443662	Empty	465,3941689	258,569813	47,41790888	0,056359691	FALSE	241,5430799	0,150314087	241,5430799	264,1715375	44,07096508	0,052381601	FALSE	31,4%	280,4481221	75,07993039	0,08923805	FALSE	33,3%
4718	3	841,3443662	Empty	445,5079811	276,9492411	47,41790888	0,056359691	FALSE	298,188124	0,150314087	298,188124	293,4516055	44,07096508	0,052381601	FALSE	34,9%	249,2872196	75,07993039	0,08923805	FALSE	29,6%
4719	1	1072,12227	Non-Empty	864,7298228	349,7068261	0	0	TRUE	349,3255794	0	354,3880963	341,7166204	0	0	TRUE	31,9%	391,0092984	0	0	TRUE	36,5%
4719	2	1072,12227	Non-Empty	879,8928683	353,5754707	0	0	TRUE	341,899823	0	360,6022949	347,7086245	0	0	TRUE	32,4%	302,7168762	0	0	TRUE	28,2%
4719	3	1072,12227	Non-Empty	871,4248284	368,839973	0	0	TRUE	380,8968674	0	357,1318785	382,6970249	0	0	TRUE	35,7%	378,3960952	0	0	TRUE	35,3%
4720	1	872,1596862	Non-Empty	758,6160562	326,5724443	0	0	TRUE	339,2052627	0	299,8992146	289,5797405	0	0	TRUE	33,2%	264,58777	0	0	TRUE	30,3%
4720	2	872,1596862	Non-Empty	698,6907602	252,7455625	0	0	TRUE	251,4767952	0	276,2093005	266,7049918	0	0	TRUE	30,6%	293,9864111	0	0	TRUE	33,7%
4720	3	872,1596862	Non-Empty	748,8821608	292,8416794	0	0	TRUE	281,4776283	0	296,0511711	315,874954	0	0	TRUE	36,2%	313,5855051	0	0	TRUE	36,0%
4721	1	950,0014416	Empty	476,7746049	339,5586956	114,1855851	0,12019517	FALSE	331,5736589	0,15578925	331,5736589	315,3654934	108,4937837	0,11420381	FALSE	33,2%	366,1463889	116,5455707	0,122679362	FALSE	38,5%
4721	2	950,0014416	Empty	438,6127427	295,4669399	114,1855851	0,12019517	FALSE	281,5520096	0,15578925	281,5520096	290,123095	108,4937837	0,11420381	FALSE	30,5%	257,2920571	116,5455707	0,122679362	FALSE	27,1%
4721	3	950,0014416	Empty	422,3067118	314,9758061	114,1855851	0,12019517	FALSE	336,875773	0,15578925	336,875773	344,5128532	108,4937837	0,11420381	FALSE	36,3%	326,5629955	116,5455707	0,122679362	FALSE	34,4%
4722	1	932,516135	Empty	435,4494889	300,4941149	97,14869355	0,104179102	FALSE	311,4110486	0,070116041	311,4110486	283,998248	113,6445604	0,121868734	FALSE	30,5%	237,8867691	159,7560393	0,171317185	FALSE	25,5%
4722	2	932,516135	Empty	467,5784418	311,6547028	97,14869355	0,104179102	FALSE	301,6032716	0,070116041	301,6032716	304,9526102	113,6445604	0,121868734	FALSE	32,7%	333,0414768	159,7560393	0,171317185	FALSE	35,7%
4722	3	932,516135	Empty	467,1051273	320,3673173	97,14869355	0,104179102	FALSE	319,5018149	0,070116041	319,5018149	343,5652768	113,6445604	0,121868734	FALSE	36,8%	361,5878891	159,7560393	0,171317185	FALSE	38,8%
4723	1	1125,390045	Empty	563,0200434	354,1942418	102,0218576	0,090654665	FALSE	364,6262381	0,093211338	364,6262381	341,5644787	130,2965496	0,115779014	FALSE	30,4%	433,7440797	172,2046754	0,15301777	FALSE	38,5%
4723	2	1125,390045	Empty	610,1340461	399,8649126	102,0218576	0,090654665	FALSE	408,8535772	0,093211338	408,8535772	370,1468888	130,2965496	0,115779014	FALSE	32,9%	328,238763	172,2046754	0,15301777	FALSE	29,2%
4723	3	1125,390045	Empty	610,0093491	371,3308902	102,0218576	0,090654665	FALSE	351,9102293	0,093211338	351,9102293	413,678677	130,2965496	0,115779014	FALSE	36,8%	363,4072019	172,2046754	0,15301777	FALSE	32,3%
4724	1	1102,423272	Empty	484,0762225	351,4034818	194,6429568	0,176559187	FALSE	357,8429927	0,034748404	357,8429927	345,267166	200,819722	0,182162085	FALSE	31,3%	371,6033501	208,4615382	0,18909392	FALSE	33,7%
4724	2	1102,423272	Empty	514,6075792	376,4938605	194,6429568	0,176559187	FALSE	377,4923933	0,034748404	377,4923933	367,000643	200,819722	0,182162085	FALSE	33,3%	383,9901284	208,4615382	0,18909392	FALSE	34,8%
4724	3	1102,423272	Empty	521,076225	374,5259295	194,6429568	0,176559187	FALSE	367,0878858	0,034748404	367,0878858	390,1959123	200,819722	0,182162085	FALSE	35,4%	346,8297934	208,4615382	0,18909392	FALSE	31,5%
4725	1	599,5987008	Non-Empty	481,7057546	189,1287491	0	0	TRUE	169,4300492	0	203,6548429	188,1976825	0	0	TRUE	31,4%	174,8829544	0	0	TRUE	29,2%
4725	2	599,5987008	Non-Empty	524,8065792	222,3352618	0	0	TRUE	192,7422501	0	221,8769454	205,0367491	0	0	TRUE	34,2%	199,8662336	0	0	TRUE	33,3%
4725	3	599,5987008	Non-Empty	411,721284	188,1346899	0	0	TRUE	237,4264014	0	174,0669124	206,3642691	0	0	TRUE	34,4%	224,8495128	0	0	TRUE	37,5%
4726	1	1403,706151	Empty	744,4987624	475,7564376	188,3742527	0,134197782	FALSE	465,8544847	0,051770167	465,8544847	478,1750353	192,9519181	0,13745891	FALSE	34,1%	488,9313561	266,1858013	0,189630715	FALSE	34,8%
4726	2	1403,706151	Empty	682,0208379	442,6245162	188,3742527	0,134197782	FALSE	462,0685664	0,051770167	462,0685664	438,0468507	192,9519181	0,13745891	FALSE	31,2%	536,2472937	266,1858013	0,189630715	FALSE	38,2%
4726	3	1403,706151	Empty	753,7076667	485,3251975	188,3742527	0,134197782	FALSE	475,7831002	0,051770167	475,7831002	487,4842652	192,9519181	0,13745891	FALSE	34,7%	378,5275015	266,1858013	0,189630715	FALSE	27,0%
4727	1	696,385965	Non-Empty	563,6120283	207,1073685	0	0	TRUE	190,5829564	0	228,6811155	217,0087289	0	0	TRUE	31,2%	244,0940496	0	0	TRUE	35,1%
4727	2	696,385965	Non-Empty	594,7795159	263,4010641	0	0	TRUE	272,00286	0	241,3270767	229,0092124	0	0	TRUE	32,9%	236,9148128	0	0	TRUE	34,0%
4727	3	696,385965	Non-Empty	557,935164	225,8775324	0	0	TRUE	233,8001486	0	226,3777728	250,3680237	0	0	TRUE	36,0%	215,3771026	0	0	TRUE	30,9%
4728	1	794,7128853	Non-Empty	769,2113767	282,2080722	0	0	TRUE	265,1775886	0	277,2809128	271,0827032	0	0	TRUE	34,1%	221,2087413	0	0	TRUE	27,8%
4728	2	794,7128853	Non-Empty	698,8999206	250,7314234	0	0	TRUE	272,5357472	0	251,9354417	246,303793	0	0	TRUE	31,0%	294,9449884	0	0	TRUE	37,1%
4728	3	794,7128853	Non-Empty	736,5200508	261,7733897	0	0	TRUE	256,9995496	0	265,4965308	277,3263891	0	0	TRUE</						

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4744	1	1128,649669	Empty	547,9746015	342,1511914	72,70730165	0,064419725	FALSE	346,8543864	0,016472296	346,8543864	342,1018045	77,54275559	0,068704008	FALSE	30,3%	334,4147168	146,3851948	0,129699409	FALSE	29,6%
4744	2	1128,649669	Empty	598,0993103	385,2530648	72,70730165	0,064419725	FALSE	382,9334245	0,016472296	382,9334245	373,3947756	77,54275559	0,068704008	FALSE	33,1%	473,7541822	146,3851948	0,129699409	FALSE	42,0%
4744	3	1128,649669	Empty	614,1555726	401,245413	72,70730165	0,064419725	FALSE	398,8618584	0,016472296	398,8618584	413,1530892	77,54275559	0,068704008	FALSE	36,6%	320,4807703	146,3851948	0,129699409	FALSE	28,4%
4745	1	716,7438768	Non-Empty	585,184542	233,2313468	0	0	TRUE	230,3300047	0	237,7842119	225,9785848	0	0	TRUE	31,5%	253,8467897	0	0	TRUE	35,4%
4745	2	716,7438768	Non-Empty	595,3547881	248,692894	0	0	TRUE	251,0828529	0	241,9167953	229,9059917	0	0	TRUE	32,1%	209,0502974	0	0	TRUE	29,2%
4745	3	716,7438768	Non-Empty	583,360106	234,819636	0	0	TRUE	235,3310191	0	237,0428696	260,8593003	0	0	TRUE	36,4%	253,8467897	0	0	TRUE	35,4%
4746	1	980,4483133	Empty	405,4782618	285,8686365	123,4978302	0,125960572	FALSE	318,354119	0,14752656	318,354119	275,7213678	133,6450988	0,136310193	FALSE	28,1%	303,472097	105,8943697	0,108006071	FALSE	31,0%
4746	2	980,4483133	Empty	491,2513678	328,4703739	123,4978302	0,125960572	FALSE	317,7844879	0,14752656	317,7844879	334,0462654	133,6450988	0,136310193	FALSE	34,1%	303,472097	105,8943697	0,108006071	FALSE	31,0%
4746	3	980,4483133	Empty	540,0040075	366,109303	123,4978302	0,125960572	FALSE	344,3097064	0,14752656	344,3097064	370,6806801	133,6450988	0,136310193	FALSE	37,8%	373,5041194	105,8943697	0,108006071	FALSE	38,1%
4747	1	860,8336596	Non-Empty	810,4296793	307,5962157	0	0	TRUE	314,6864035	0	291,8279094	285,5838884	0	0	TRUE	33,2%	271,8422083	0	0	TRUE	31,6%
4747	2	860,8336596	Non-Empty	787,6551321	275,6062958	0	0	TRUE	273,4811109	0	283,6270146	277,558462	0	0	TRUE	32,2%	280,9036153	0	0	TRUE	32,6%
4747	3	860,8336596	Non-Empty	792,5198026	277,6311482	0	0	TRUE	272,6661452	0	285,3787356	297,6913092	0	0	TRUE	34,6%	308,0878361	0	0	TRUE	35,8%
4748	1	1294,611954	Empty	625,3017652	419,3002881	181,1021095	0,139889106	FALSE	416,9033299	0,031432645	416,9033299	429,4777281	175,9817412	0,135933969	FALSE	33,2%	426,7951498	204,1167804	0,15766638	FALSE	33,0%
4748	2	1294,611954	Empty	595,8995394	404,1629483	181,1021095	0,139889106	FALSE	416,0308761	0,031432645	416,0308761	409,2833166	175,9817412	0,135933969	FALSE	31,6%	441,0216548	204,1167804	0,15766638	FALSE	34,1%
4748	3	1294,611954	Empty	684,2242066	471,1487181	181,1021095	0,139889106	FALSE	461,6777485	0,031432645	461,6777485	455,8509097	175,9817412	0,135933969	FALSE	35,2%	426,7951498	204,1167804	0,15766638	FALSE	33,0%
4749	1	743,1484243	Non-Empty	711,1834237	270,7935659	0	0	TRUE	245,8142944	0	265,6680936	254,6070617	0	0	TRUE	34,3%	242,1494866	0	0	TRUE	32,6%
4749	2	743,1484243	Non-Empty	648,4193079	235,3905889	0	0	TRUE	237,7724563	0	242,2220704	232,1372085	0	0	TRUE	31,2%	225,449522	0	0	TRUE	30,3%
4749	3	743,1484243	Non-Empty	629,7774518	236,9642695	0	0	TRUE	259,5616736	0	235,2582603	256,4041542	0	0	TRUE	34,5%	275,5494157	0	0	TRUE	37,1%
4750	1	607,0143264	Non-Empty	544,4434031	185,7180518	0	0	TRUE	193,3293553	0	193,7164362	193,668016	0	0	TRUE	31,9%	195,1117478	0	0	TRUE	32,1%
4750	2	607,0143264	Non-Empty	573,5349663	206,8312938	0	0	TRUE	206,464276	0	204,0673999	204,0163925	0	0	TRUE	33,6%	202,3381088	0	0	TRUE	33,3%
4750	3	607,0143264	Non-Empty	588,0459214	214,4649808	0	0	TRUE	207,2206951	0	209,3299178	209,234903	0	0	TRUE	34,5%	209,5644698	0	0	TRUE	34,5%
4751	1	1363,613185	Empty	726,912765	465,6577475	188,0361137	0,137895494	FALSE	456,4531242	0,044988943	456,4531242	447,6034492	181,4147017	0,133039709	FALSE	32,8%	348,8312799	277,1033783	0,203212598	FALSE	25,6%
4751	2	1363,613185	Empty	735,6941381	474,2937875	188,0361137	0,137895494	FALSE	464,943831	0,044988943	464,943831	453,0106632	181,4147017	0,133039709	FALSE	33,2%	570,8148217	277,1033783	0,203212598	FALSE	41,9%
4751	3	1363,613185	Empty	657,1574644	423,66165	188,0361137	0,137895494	FALSE	442,2162298	0,044988943	442,2162298	462,9990726	181,4147017	0,133039709	FALSE	34,0%	443,9670835	277,1033783	0,203212598	FALSE	32,6%
4752	1	921,0873682	Non-Empty	824,1954339	324,413002	0	0	TRUE	315,0183363	0	317,3396557	296,816201	0	0	TRUE	32,2%	352,7568644	0	0	TRUE	38,3%
4752	2	921,0873682	Non-Empty	844,5993751	339,6181953	0	0	TRUE	325,0247817	0	325,1957775	304,1642402	0	0	TRUE	33,0%	274,3664501	0	0	TRUE	29,8%
4752	3	921,0873682	Non-Empty	723,4558578	257,0561709	0	0	TRUE	281,0442502	0	278,5519349	320,1069269	0	0	TRUE	34,8%	293,9640537	0	0	TRUE	31,9%
4753	1	1582,541204	Empty	785,6002626	522,3320715	204,9078742	0,129480277	FALSE	530,394241	0,043636152	530,394241	501,8129121	224,2144966	0,141680037	FALSE	31,7%	567,6506494	256,7622869	0,162246826	FALSE	35,9%
4753	2	1582,541204	Empty	831,5746725	542,9074358	204,9078742	0,129480277	FALSE	525,5705597	0,043636152	525,5705597	531,1796597	224,2144966	0,141680037	FALSE	33,6%	464,4414404	256,7622869	0,162246826	FALSE	29,3%
4753	3	1582,541204	Empty	779,3573511	517,3016971	204,9078742	0,129480277	FALSE	526,5764036	0,043636152	526,5764036	549,5485971	224,2144966	0,141680037	FALSE	34,7%	550,4491146	256,7622869	0,162246826	FALSE	34,8%
4754	1	1225,041319	Empty	609,0631661	394,923563	170,4562616	0,139143275	FALSE	377,72407	0,134191277	377,72407	398,7679384	202,3734339	0,165197231	FALSE	32,6%	455,0153471	212,7739102	0,173687129	FALSE	37,1%
4754	2	1225,041319	Empty	586,119836	415,6635744	170,4562616	0,139143275	FALSE	442,147423	0,134191277	442,147423	383,7464021	202,3734339	0,165197231	FALSE	31,3%	373,3459258	212,7739102	0,173687129	FALSE	30,5%
4754	3	1225,041319	Empty	620,6786472	414,4541816	170,4562616	0,139143275	FALSE	405,1698261	0,134191277	405,1698261	442,5269786	202,3734339	0,165197231	FALSE	36,1%	396,6800462	212,7739102	0,173687129	FALSE	32,4%
4755	1	1788,234503	Empty	904,3652069	597,1990038	246,0255565	0,137580142	FALSE	600,645846	0,037772025	600,645846	573,3924256	278,3776404	0,155671776	FALSE	32,1%	447,0586258	396,1659345	0,221540259	FALSE	25,0%
4755	2	1788,234503	Empty	931,5666142	623,6956806	246,0255565	0,137580142	FALSE	626,4377924	0,037772025	626,4377924	590,6388663	278,3776404	0,155671776	FALSE	33,0%	643,7644212	396,1659345	0,221540259	FALSE	36,0%
4755	3	1788,234503	Empty	884,1418185	567,339819	246,0255565	0,137580142	FALSE	561,1508648	0,037772025	561,1508648	624,2032114	278,3776404	0,155671776	FALSE	34,9%	697,4114563	396,1659345	0,221540259	FALSE	39,0%
4756	1	1395,419967	Empty	709,7026926	459,653017	158,5602734	0,11362907	FALSE	465,5882209	0,021585264	465,5882209	435,7925514	182,420739	0,130728199	FALSE	31,2%	434,1306564	184,0826341	0,131919163	FALSE	31,1%
4756	2	1395,419967	Empty	764,6755689	496,9185972	158,5602734	0,11362907	FALSE	485,1465049	0,021585264	485,1465049	469,5486161	182,420739	0,130728199	FALSE	33,6%	465,139989	184,0826341	0,131919163	FALSE	33,3%
4756	3	1395,419967	Empty	688,9963438	438,8483527	158,5602734	0,11362907	FALSE	444,685241	0,021585264	444,685241	490,0787993	182,420739	0,130728199	FALSE	35,1%	496,1493216	184,0826341	0,131919163	FALSE	35,6%
4757	1	916,784538	Non-Empty	827,818858	294,1891293	0	0	TRUE	301,8129106	0	298,7278356	297,5004782	0	0	TRUE	32,5%	261,9384394	0	0	TRUE	28,6%
4757	2	916,784538	Non-Empty	849,6838436	301,4583401	0	0	TRUE	294,4863465	0	306,6180639	305,3582887	0	0	TRUE	33,3%	392,9076592	0	0	TRUE	42,9%
4757	3	916,784538	Non-Empty	863,0423661	321,1370686	0	0	TRUE	320,485281	0	311,4386385	313,9257711	0	0	TRUE	34,2%	261,9384394	0	0	TRUE	28,6%
4758	1	1810,712913	Empty	841,4715727	567,8947885	256,549722	0,141684372	FALSE	576,0355665	0,034652553	576,0355665	545,2820432	295,1865053	0,163022257	FALSE	30,1%	495,5635342	328,8809763	0,181630657	FALSE	27,4%
4758	2	1810,712913	Empty	957,7556353	671,7254598	256,549722	0,141684372	FALSE	667,4128467	0,034652553	667,4128467	620,6352854	295,1865053	0,163022257	FALSE	34,3%	743,3453013	328,8809763	0,181630657	FALSE	41,1%
4758	3	1810,712913	Empty	856,638392	571,092665	256,549722	0,141684372	FALSE	567,2645002	0,034652553	567,2645002	644,7955848	295,1865053	0,163022257	FALSE	35,6%	571,8040779	328,8809763	0,181630657	FALSE	31,6%
4759	1	813,9499336	Non-Empty	701,0804548	291,9367414	0	0	TRUE	283,0386505	0	283,2422337	263,219486	0	0	TRUE	32,3%	230,0293291	0	0	TRUE	28,3%
4759	2	813,9499336	Non-Empty	685,8691814	282,275661	0	0	TRUE	278,927763	0	277,0967549	257,5084388	0	0	TRUE	31,6%	309,654866	0	0	TRUE	38,0%
4759	3	813,9499336	Non-Empty	627,7371648	239,7375312	0	0	TRUE	251,9835201	0	253,6109451	293,2220088									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4775	1	740,6965135	Non-Empty	644,6211289	280,1707934	0	0	TRUE	279,5141871	0	260,6159239	241,5040735	0	0	TRUE	32,6%	244,4298495	0	0	TRUE	33,0%
4775	2	740,6965135	Non-Empty	596,3569067	247,0865786	0	0	TRUE	261,6099797	0	241,1030282	223,4221247	0	0	TRUE	30,2%	222,2089541	0	0	TRUE	30,0%
4775	3	740,6965135	Non-Empty	591,0996656	213,4391415	0	0	TRUE	199,5723466	0	238,9775615	275,7703153	0	0	TRUE	37,2%	274,05771	0	0	TRUE	37,0%
4776	1	550,7196311	Non-Empty	457,4383247	173,4563067	0	0	TRUE	168,9121128	0	181,3637593	184,8813457	0	0	TRUE	33,6%	199,6358663	0	0	TRUE	36,3%
4776	2	550,7196311	Non-Empty	437,5577159	153,9494009	0	0	TRUE	149,7789102	0	173,4815558	176,8462653	0	0	TRUE	32,1%	192,7518709	0	0	TRUE	35,0%
4776	3	550,7196311	Non-Empty	494,037063	223,3139235	0	0	TRUE	232,0286082	0	195,874316	188,9920201	0	0	TRUE	34,3%	158,3318939	0	0	TRUE	28,8%
4777	1	677,1768035	Non-Empty	641,4187139	239,6326977	0	0	TRUE	222,5726591	0	237,176264	228,7466344	0	0	TRUE	33,8%	245,4765913	0	0	TRUE	36,3%
4777	2	677,1768035	Non-Empty	591,6500004	220,543403	0	0	TRUE	234,1627833	0	218,7733748	210,9978138	0	0	TRUE	31,2%	237,0118812	0	0	TRUE	35,0%
4777	3	677,1768035	Non-Empty	598,2860222	217,0007028	0	0	TRUE	220,4413611	0	221,2271648	237,4323553	0	0	TRUE	35,1%	194,688331	0	0	TRUE	28,8%
4778	1	695,5718712	Non-Empty	675,8810727	277,8008975	0	0	TRUE	262,0648397	0	255,1409882	240,311344	0	0	TRUE	34,5%	197,5080622	0	0	TRUE	28,4%
4778	2	695,5718712	Non-Empty	594,0087087	214,5531799	0	0	TRUE	217,4417684	0	224,2346695	211,2014035	0	0	TRUE	30,4%	249,0319045	0	0	TRUE	35,8%
4778	3	695,5718712	Non-Empty	572,714442	203,2177939	0	0	TRUE	216,0652631	0	216,1962135	244,0591237	0	0	TRUE	35,1%	249,0319045	0	0	TRUE	35,8%
4779	1	994,9848641	Empty	482,7511049	338,9986179	145,0672609	0,14579846	FALSE	319,5724938	0,163032394	319,5724938	339,4883465	166,6647878	0,167504847	FALSE	34,1%	279,0811204	184,041472	0,184969117	FALSE	28,0%
4779	2	994,9848641	Empty	400,2512204	303,0689178	145,0672609	0,14579846	FALSE	330,2129783	0,163032394	330,2129783	281,4713909	166,6647878	0,167504847	FALSE	28,3%	436,8226233	184,041472	0,184969117	FALSE	43,9%
4779	3	994,9848641	Empty	484,9616278	352,9173284	145,0672609	0,14579846	FALSE	345,199392	0,163032394	345,199392	374,0251267	166,6647878	0,167504847	FALSE	37,6%	279,0811204	184,041472	0,184969117	FALSE	28,0%
4780	1	616,7093893	Non-Empty	509,9998442	216,3299147	0	0	TRUE	223,1412837	0	207,1738708	197,9682775	0	0	TRUE	32,1%	182,2095923	0	0	TRUE	29,5%
4780	2	616,7093893	Non-Empty	493,1657045	197,7534578	0	0	TRUE	202,8225095	0	200,3354494	191,4337154	0	0	TRUE	31,0%	210,2418373	0	0	TRUE	34,1%
4780	3	616,7093893	Non-Empty	514,9877357	202,6260168	0	0	TRUE	190,7455962	0	209,2000691	227,3073964	0	0	TRUE	36,9%	224,2579597	0	0	TRUE	36,4%
4781	1	635,4702415	Non-Empty	562,9486038	198,6639407	0	0	TRUE	211,3794225	0	202,5151564	199,2803896	0	0	TRUE	31,4%	207,0633371	0	0	TRUE	32,6%
4781	2	635,4702415	Non-Empty	597,3586777	221,6662828	0	0	TRUE	222,9740327	0	214,8938379	211,461347	0	0	TRUE	33,3%	228,4836823	0	0	TRUE	36,0%
4781	3	635,4702415	Non-Empty	606,1633944	215,1400179	0	0	TRUE	201,1167863	0	218,0612472	224,7285048	0	0	TRUE	35,4%	199,923222	0	0	TRUE	31,5%
4782	1	946,3417608	Non-Empty	692,7666421	294,0281586	0	0	TRUE	297,8859688	0	304,3427316	298,4965933	0	0	TRUE	31,5%	315,4472536	0	0	TRUE	33,3%
4782	2	946,3417608	Non-Empty	737,8783351	333,6317912	0	0	TRUE	331,9815409	0	324,1609721	317,9341439	0	0	TRUE	33,6%	297,4216962	0	0	TRUE	31,4%
4782	3	946,3417608	Non-Empty	723,4856647	318,6818111	0	0	TRUE	316,4742511	0	317,838057	329,9110236	0	0	TRUE	34,9%	333,4728109	0	0	TRUE	35,2%
4783	1	1077,842883	Empty	554,8680099	348,2762625	118,4480575	0,109893621	FALSE	340,8268822	0,066982072	340,8268822	329,330659	126,6626611	0,117514958	FALSE	30,6%	351,4705053	190,9460812	0,177155766	FALSE	32,6%
4783	2	1077,842883	Empty	621,5210022	409,7708152	118,4480575	0,109893621	FALSE	397,1629952	0,066982072	397,1629952	368,8911914	126,6626611	0,117514958	FALSE	34,2%	304,6077712	190,9460812	0,177155766	FALSE	28,3%
4783	3	1077,842883	Empty	498,880972	319,7958052	118,4480575	0,109893621	FALSE	339,8530054	0,066982072	339,8530054	379,6210325	126,6626611	0,117514958	FALSE	35,2%	421,7646063	190,9460812	0,177155766	FALSE	39,1%
4784	1	1265,237708	Empty	670,5593535	453,7789431	188,508314	0,148990433	FALSE	441,2301004	0,096149146	441,2301004	424,5447419	178,6308427	0,141183622	FALSE	33,6%	500,2102565	195,2831518	0,15434503	FALSE	39,5%
4784	2	1265,237708	Empty	640,4157557	422,1702011	188,508314	0,148990433	FALSE	408,1562141	0,096149146	408,1562141	405,4602181	178,6308427	0,141183622	FALSE	32,0%	382,5137255	195,2831518	0,15434503	FALSE	30,2%
4784	3	1265,237708	Empty	566,9573012	389,2885633	188,508314	0,148990433	FALSE	415,8513931	0,096149146	415,8513931	435,2327475	178,6308427	0,141183622	FALSE	34,4%	382,5137255	195,2831518	0,15434503	FALSE	30,2%
4785	1	712,4313495	Non-Empty	683,182001	267,7262251	0	0	TRUE	258,5796248	0	252,009236	240,0993947	0	0	TRUE	33,7%	246,9762012	0	0	TRUE	34,7%
4785	2	712,4313495	Non-Empty	650,3153475	233,0760971	0	0	TRUE	222,1460224	0	239,8855263	228,548646	0	0	TRUE	32,1%	218,4789472	0	0	TRUE	30,7%
4785	3	712,4313495	Non-Empty	597,8615279	211,6290273	0	0	TRUE	231,7057023	0	220,5365872	243,7833089	0	0	TRUE	34,2%	246,9762012	0	0	TRUE	34,7%
4786	1	1111,662566	Empty	525,5729421	368,7717597	176,3872724	0,158669796	FALSE	350,4464168	0,159690092	350,4464168	347,647972	171,0902238	0,153904817	FALSE	31,3%	394,4609106	202,5647086	0,182217801	FALSE	35,5%
4786	2	1111,662566	Empty	556,7240167	405,9259861	176,3872724	0,158669796	FALSE	393,603795	0,159690092	393,603795	368,2533096	171,0902238	0,153904817	FALSE	33,1%	406,4142715	202,5647086	0,182217801	FALSE	36,6%
4786	3	1111,662566	Empty	444,7931258	336,9648203	176,3872724	0,158669796	FALSE	367,6123543	0,159690092	367,6123543	395,7612845	171,0902238	0,153904817	FALSE	35,6%	310,7873841	202,5647086	0,182217801	FALSE	28,0%
4787	1	714,7598636	Non-Empty	524,7272649	183,6009583	0	0	TRUE	175,8082842	0	218,7208833	230,7543879	0	0	TRUE	32,3%	250,1659523	0	0	TRUE	35,0%
4787	2	714,7598636	Non-Empty	536,7074454	208,5049087	0	0	TRUE	213,6360046	0	223,7145549	236,0227995	0	0	TRUE	33,0%	250,1659523	0	0	TRUE	35,0%
4787	3	714,7598636	Non-Empty	653,3260507	322,6539965	0	0	TRUE	325,3155748	0	272,3244254	247,9826761	0	0	TRUE	34,7%	214,4279591	0	0	TRUE	30,0%
4788	1	859,1929618	Non-Empty	687,586267	277,6879971	0	0	TRUE	290,6552814	0	277,6445915	252,2451398	0	0	TRUE	29,4%	298,4565025	0	0	TRUE	34,7%
4788	2	859,1929618	Non-Empty	800,2967727	351,1784693	0	0	TRUE	324,9257202	0	323,1566441	293,5936639	0	0	TRUE	34,2%	272,999567	0	0	TRUE	30,5%
4788	3	859,1929618	Non-Empty	639,9065849	230,3264954	0	0	TRUE	243,6119602	0	258,3917261	313,3541581	0	0	TRUE	36,5%	298,4565025	0	0	TRUE	34,7%
4789	1	495,3689517	Non-Empty	444,593778	165,256676	0	0	TRUE	171,0938424	0	163,0315328	156,6274102	0	0	TRUE	31,6%	180,6032636	0	0	TRUE	36,5%
4789	2	495,3689517	Non-Empty	466,1763368	176,6773341	0	0	TRUE	172,3525997	0	170,9458083	164,2308011	0	0	TRUE	33,2%	175,4431704	0	0	TRUE	35,4%
4789	3	495,3689517	Non-Empty	440,1216417	153,4349415	0	0	TRUE	151,9225095	0	161,3916106	174,5107404	0	0	TRUE	35,2%	139,3225177	0	0	TRUE	28,1%
4790	1	607,1507641	Non-Empty	536,7141341	236,9266547	0	0	TRUE	246,413468	0	212,2944575	199,8377835	0	0	TRUE	32,9%	159,3770756	0	0	TRUE	26,3%
4790	2	607,1507641	Non-Empty	495,4197436	185,1887923	0	0	TRUE	184,2321338	0	195,9606781	184,4624115	0	0	TRUE	30,4%	220,092152	0	0	TRUE	36,3%
4790	3	607,1507641	Non-Empty	502,8397648	185,0353172	0	0	TRUE	176,5051623	0	198,8956285	222,8505691	0	0	TRUE	36,7%	227,6815365	0	0	TRUE	37,5%
4791	1	1367,143808	Empty	711,7216516	452,3815933	168,2978721	0,123101806	FALSE	445,7254711	0,086191042	445,7254711	443,5843657	198,7752183	0,14539452	FALSE	32,4%	406,8880381	187,1614027	0,136899572	FALSE	29,8%
4791	2	1367,143808	Empty	698,5830261	465,8729925	168,2978721	0,123101806	FALSE	485,8468949	0,086191042	485,8468949	435,3956463	198,7752183	0,14539452	FALSE	31,8%	471,9901241	187,1614027	0,136899572	FALSE	34,5%
4791	3	1367,143808	Empty	714,8909382	448,889222	168,2978721	0,123101806	FALSE	435,5714418	0,086191042	435,5714418	488,1637959	198,7752183	0,14539452	FALSE	35,7%	488,2656457	187,1614027	0,136899572	FALSE	35,7%
4792	1	835,3169485	Non-Empty	716,9790909	256,7296733</																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4806	1	1518,25928	Empty	863,4983441	537,0094011	165,4493569	0,108973058	FALSE	527,2313534	0,012592784	527,2313534	520,8067621	171,7952064	0,113152746	FALSE	34,3%	457,307012	225,8909125	0,14878283	FALSE	30,1%
4806	2	1518,25928	Empty	790,1291094	482,9009998	165,4493569	0,108973058	FALSE	492,3837856	0,012592784	492,3837856	476,5551502	171,7952064	0,113152746	FALSE	31,4%	603,6452558	225,8909125	0,14878283	FALSE	39,8%
4806	3	1518,25928	Empty	814,7645122	498,3488788	165,4493569	0,108973058	FALSE	498,6441408	0,012592784	498,6441408	520,8973674	171,7952064	0,113152746	FALSE	34,3%	457,307012	225,8909125	0,14878283	FALSE	30,1%
4807	1	798,0493094	Non-Empty	679,0978096	250,3690079	0	0	TRUE	233,7987043	0	266,3784374	258,1682564	0	0	TRUE	32,3%	305,6359057	0	0	TRUE	38,3%
4807	2	798,0493094	Non-Empty	656,4774769	275,8678274	0	0	TRUE	307,416676	0	257,5055345	249,5688297	0	0	TRUE	31,3%	237,7168156	0	0	TRUE	29,8%
4807	3	798,0493094	Non-Empty	698,9495172	271,8124741	0	0	TRUE	256,8339292	0	274,1653375	290,3122234	0	0	TRUE	36,4%	254,6965881	0	0	TRUE	31,9%
4808	1	1131,230444	Empty	578,2033423	384,3413529	138,1468261	0,122120852	FALSE	376,678303	0,033877905	376,678303	384,3983765	135,5652327	0,119838741	FALSE	34,0%	307,3995772	200,6166983	0,177343794	FALSE	27,2%
4808	2	1131,230444	Empty	525,3044018	345,9143159	138,1468261	0,122120852	FALSE	352,7231695	0,033877905	352,7231695	349,2303562	135,5652327	0,119838741	FALSE	30,9%	405,7674419	200,6166983	0,177343794	FALSE	35,9%
4808	3	1131,230444	Empty	586,3195184	400,9747752	138,1468261	0,122120852	FALSE	401,8289715	0,033877905	401,8289715	397,6017113	135,5652327	0,119838741	FALSE	35,1%	418,0634249	200,6166983	0,177343794	FALSE	37,0%
4809	1	1189,891129	Empty	563,8944692	378,3406826	153,8992611	0,129338943	FALSE	388,8221309	0,037375693	388,8221309	373,2906789	158,9492648	0,133583032	FALSE	31,4%	392,1232129	160,491582	0,134879215	FALSE	33,0%
4809	2	1189,891129	Empty	592,4802632	396,0602601	153,8992611	0,129338943	FALSE	395,6754919	0,037375693	395,6754919	392,2140964	158,9492648	0,133583032	FALSE	33,0%	378,6017228	160,491582	0,134879215	FALSE	31,8%
4809	3	1189,891129	Empty	621,622101	415,490186	153,8992611	0,129338943	FALSE	405,3935059	0,037375693	405,3935059	424,3863534	158,9492648	0,133583032	FALSE	35,7%	419,1661931	160,491582	0,134879215	FALSE	35,2%
4810	1	722,1036871	Non-Empty	525,6639099	203,4909247	0	0	TRUE	224,1452483	0	216,8324957	204,072254	0	0	TRUE	28,3%	222,8715084	0	0	TRUE	30,9%
4810	2	722,1036871	Non-Empty	616,5279184	281,6470281	0	0	TRUE	289,5934465	0	254,3132308	239,3473084	0	0	TRUE	33,1%	231,7863687	0	0	TRUE	32,1%
4810	3	722,1036871	Non-Empty	608,3937851	236,9657343	0	0	TRUE	208,3649922	0	250,9579606	278,6841246	0	0	TRUE	38,6%	267,44581	0	0	TRUE	37,0%
4811	1	1766,268638	Empty	903,9785281	588,349122	237,0750695	0,134223676	FALSE	583,7657454	0,044340319	583,7657454	588,8467474	244,0013657	0,138145105	FALSE	33,3%	398,2762615	403,4357875	0,228411341	FALSE	22,5%
4811	2	1766,268638	Empty	857,2545768	565,3373133	237,0750695	0,134223676	FALSE	584,4660792	0,044340319	584,4660792	558,411017	244,0013657	0,138145105	FALSE	31,6%	675,3380086	403,4357875	0,228411341	FALSE	38,2%
4811	3	1766,268638	Empty	938,1736214	612,5822025	237,0750695	0,134223676	FALSE	598,0368132	0,044340319	598,0368132	619,0108734	244,0013657	0,138145105	FALSE	35,0%	692,6543678	403,4357875	0,228411341	FALSE	39,2%
4812	1	938,748108	Non-Empty	805,4011383	343,1128667	0	0	TRUE	343,4862691	0	324,9486523	313,0284849	0	0	TRUE	33,3%	217,3942987	0	0	TRUE	23,2%
4812	2	938,748108	Non-Empty	739,2212399	280,752457	0	0	TRUE	284,945348	0	298,2475865	287,3069005	0	0	TRUE	30,6%	335,9730071	0	0	TRUE	35,8%
4812	3	938,748108	Non-Empty	782,1107518	314,8827843	0	0	TRUE	310,3164909	0	315,5518693	338,4127226	0	0	TRUE	36,0%	385,3808022	0	0	TRUE	41,1%
4813	1	876,3575829	Non-Empty	834,1133508	340,5312403	0	0	TRUE	322,238303	0	317,5108981	311,0228479	0	0	TRUE	35,5%	295,6387027	0	0	TRUE	33,7%
4813	2	876,3575829	Non-Empty	654,5807017	225,3802569	0	0	TRUE	271,4689852	0	249,1705789	244,0790018	0	0	TRUE	27,9%	242,8460772	0	0	TRUE	27,7%
4813	3	876,3575829	Non-Empty	813,5310499	310,4460857	0	0	TRUE	282,6502947	0	309,6761059	321,2557333	0	0	TRUE	36,7%	337,8728031	0	0	TRUE	38,6%
4814	1	967,3227844	Non-Empty	798,0122504	299,1224195	0	0	TRUE	336,3634387	0	299,6974944	295,2653911	0	0	TRUE	30,5%	296,6456539	0	0	TRUE	30,7%
4814	2	967,3227844	Non-Empty	889,193583	330,855837	0	0	TRUE	308,6489409	0	333,9411002	329,0025822	0	0	TRUE	34,0%	361,1338395	0	0	TRUE	37,3%
4814	3	967,3227844	Non-Empty	888,5095009	337,3445279	0	0	TRUE	322,3104049	0	333,6841898	343,0548111	0	0	TRUE	35,5%	309,543291	0	0	TRUE	32,0%
4815	1	797,4363437	Non-Empty	648,1133927	224,8157841	0	0	TRUE	228,9035287	0	248,5242653	251,4978399	0	0	TRUE	31,5%	248,5515877	0	0	TRUE	31,2%
4815	2	797,4363437	Non-Empty	679,0412026	261,4939585	0	0	TRUE	271,3320678	0	260,3837814	263,4992542	0	0	TRUE	33,0%	289,9768523	0	0	TRUE	36,4%
4815	3	797,4363437	Non-Empty	752,4378083	311,1266011	0	0	TRUE	297,2007472	0	288,528297	282,4392496	0	0	TRUE	35,4%	258,9079038	0	0	TRUE	32,5%
4816	1	818,7282162	Non-Empty	653,3302372	239,0217569	0	0	TRUE	243,2427621	0	257,8680038	255,108251	0	0	TRUE	31,2%	269,8081622	0	0	TRUE	33,0%
4816	2	818,7282162	Non-Empty	686,9956656	278,0883482	0	0	TRUE	287,7105165	0	271,1556741	268,2537141	0	0	TRUE	32,8%	279,1118919	0	0	TRUE	34,1%
4816	3	818,7282162	Non-Empty	733,9907704	301,6181112	0	0	TRUE	287,7749376	0	289,7045383	295,3662512	0	0	TRUE	36,1%	269,8081622	0	0	TRUE	33,0%
4817	1	790,4466707	Empty	406,409688	263,5201888	93,43138268	0,118200742	FALSE	267,4141075	0,027512673	267,4141075	251,930782	105,0207895	0,132862587	FALSE	31,9%	204,5861971	152,3653744	0,192758576	FALSE	25,9%
4817	2	790,4466707	Empty	421,6997515	272,0314882	93,43138268	0,118200742	FALSE	269,1466427	0,027512673	269,1466427	261,4089952	105,0207895	0,132862587	FALSE	33,1%	316,1786683	152,3653744	0,192758576	FALSE	40,0%
4817	3	790,4466707	Empty	402,6874847	254,8949937	93,43138268	0,118200742	FALSE	253,8859205	0,027512673	253,8859205	277,1068934	105,0207895	0,132862587	FALSE	35,1%	269,6818053	152,3653744	0,192758576	FALSE	34,1%
4818	1	1548,475503	Empty	761,9167996	485,6106173	180,576931	0,116615943	FALSE	504,2577853	0,04925396	504,2577853	483,0257249	183,1618233	0,118285257	FALSE	31,2%	479,2900365	203,6420133	0,131511292	FALSE	31,0%
4818	2	1548,475503	Empty	817,2925705	521,6707535	180,576931	0,116615943	FALSE	521,0022869	0,04925396	521,0022869	518,1318177	183,1618233	0,118285257	FALSE	33,5%	479,2900365	203,6420133	0,131511292	FALSE	31,0%
4818	3	1548,475503	Empty	854,1261837	541,1941318	180,576931	0,116615943	FALSE	523,2154304	0,04925396	523,2154304	547,31796	183,1618233	0,118285257	FALSE	35,3%	589,8954296	203,6420133	0,131511292	FALSE	38,1%
4819	1	744,9632635	Non-Empty	517,2591342	200,4209647	0	0	TRUE	200,8035669	0	227,1208554	214,6025032	0	0	TRUE	28,8%	219,6686546	0	0	TRUE	29,5%
4819	2	744,9632635	Non-Empty	622,8539445	299,6652759	0	0	TRUE	293,697379	0	273,4859789	258,4120933	0	0	TRUE	34,7%	257,8718989	0	0	TRUE	34,6%
4819	3	744,9632635	Non-Empty	556,5124997	244,8770229	0	0	TRUE	250,4623177	0	244,3564292	271,948667	0	0	TRUE	36,5%	267,42271	0	0	TRUE	35,9%
4820	1	801,459855	Non-Empty	753,0712579	301,4444923	0	0	TRUE	287,2070967	0	285,5546913	274,5672263	0	0	TRUE	34,3%	318,5289168	0	0	TRUE	39,7%
4820	2	801,459855	Non-Empty	660,3741552	245,2767756	0	0	TRUE	267,5687659	0	250,4051723	240,7701771	0	0	TRUE	30,0%	236,327906	0	0	TRUE	29,5%
4820	3	801,459855	Non-Empty	700,1825519	254,7385872	0	0	TRUE	246,6839925	0	265,4999914	286,1224517	0	0	TRUE	35,7%	246,6030323	0	0	TRUE	30,8%
4821	1	629,5090821	Non-Empty	509,6993392	195,2344871	0	0	TRUE	184,1387838	0	208,4027791	193,6775238	0	0	TRUE	30,8%	211,9775481	0	0	TRUE	33,7%
4821	2	629,5090821	Non-Empty	573,2975258	242,4364954	0	0	TRUE	214,9446136	0	234,4064205	217,8438085	0	0	TRUE	34,6%	199,1304239	0	0	TRUE	31,6%
4821	3	629,5090821	Non-Empty	456,6196631	191,8380996	0	0	TRUE	230,4256848	0	186,6998826	217,9877498	0	0	TRUE	34,6%	218,4011101	0	0	TRUE	34,7%
4822	1	737,9894199	Non-Empty	632,976264	254,7642121	0	0	TRUE	247,1007226	0	252,5524003	244,7067973	0	0	TRUE	33,2%	202,7443461	0	0	TRUE	27,5%
4822	2	737,9894199	Non-Empty	579,1265045	222,265997	0	0	TRUE	235,8752573	0	231,0667825	223,8886356	0	0	TRUE	30,3%	283,8420846	0	0	TRUE	38,5%
4822	3	737,9894199	Non-Empty	637,5323386	260,9986081	0	0	TRUE													

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4837	1	810,439354	Non-Empty	732,7898823	278,2046246	0	0	TRUE	282,1134389	0	271,6848431	262,3134381	0	0	TRUE	32,4%	270,1464513	0	0	TRUE	33,3%
4837	2	810,439354	Non-Empty	733,3154763	275,8400851	0	0	TRUE	276,858766	0	271,8797092	262,5015825	0	0	TRUE	32,4%	221,9060136	0	0	TRUE	27,4%
4837	3	810,439354	Non-Empty	719,8162116	256,3946443	0	0	TRUE	251,4671491	0	266,8748017	285,6243334	0	0	TRUE	35,2%	318,3868891	0	0	TRUE	39,3%
4838	1	762,9651669	Non-Empty	627,3517537	230,187842	0	0	TRUE	218,4502682	0	249,3937667	237,5965578	0	0	TRUE	31,1%	248,6066274	0	0	TRUE	32,6%
4838	2	762,9651669	Non-Empty	668,9052035	291,6863076	0	0	TRUE	299,8937497	0	265,9126834	253,3340712	0	0	TRUE	33,2%	240,0339851	0	0	TRUE	31,5%
4838	3	762,9651669	Non-Empty	622,9872237	241,0910174	0	0	TRUE	244,621149	0	247,6587168	272,0345379	0	0	TRUE	35,7%	274,3245544	0	0	TRUE	36,0%
4839	1	926,6957361	Non-Empty	827,2292485	290,2069674	0	0	TRUE	302,1322465	0	297,8738582	288,3710483	0	0	TRUE	31,1%	329,4918173	0	0	TRUE	35,6%
4839	2	926,6957361	Non-Empty	910,399962	344,2520927	0	0	TRUE	327,0517836	0	327,8224865	317,3642517	0	0	TRUE	34,2%	339,7884366	0	0	TRUE	36,7%
4839	3	926,6957361	Non-Empty	835,9092062	292,236676	0	0	TRUE	297,5117059	0	300,9993914	320,960436	0	0	TRUE	34,6%	257,4154822	0	0	TRUE	27,8%
4840	1	929,7815072	Non-Empty	804,6020246	319,8741149	0	0	TRUE	345,9815516	0	303,8248251	291,5564172	0	0	TRUE	31,4%	325,4235275	0	0	TRUE	35,0%
4840	2	929,7815072	Non-Empty	832,76943	317,3844682	0	0	TRUE	312,8348528	0	314,4610859	301,7631872	0	0	TRUE	32,5%	278,9344522	0	0	TRUE	30,0%
4840	3	929,7815072	Non-Empty	824,9160919	292,5229241	0	0	TRUE	270,9651028	0	311,4955962	336,4619028	0	0	TRUE	36,2%	325,4235275	0	0	TRUE	35,0%
4841	1	1046,353304	Empty	532,5752047	329,7183763	105,3495004	0,100682532	FALSE	319,4538397	0,069403432	319,4538397	354,7188959	122,8385756	0,117396844	FALSE	33,9%	352,5755697	139,4620397	0,133283891	FALSE	33,7%
4841	2	1046,353304	Empty	484,1047018	307,7453917	105,3495004	0,100682532	FALSE	323,9783734	0,069403432	323,9783734	322,435374	122,8385756	0,117396844	FALSE	30,8%	341,2021643	139,4620397	0,133283891	FALSE	32,6%
4841	3	1046,353304	Empty	607,4502726	408,8895358	105,3495004	0,100682532	FALSE	402,9210907	0,069403432	402,9210907	369,1990339	122,8385756	0,117396844	FALSE	35,3%	352,5755697	139,4620397	0,133283891	FALSE	33,7%
4842	1	749,2767383	Non-Empty	645,0544941	225,067305	0	0	TRUE	235,3855017	0	236,9012893	232,8601742	0	0	TRUE	31,1%	240,1528007	0	0	TRUE	32,1%
4842	2	749,2767383	Non-Empty	698,4567862	267,8170296	0	0	TRUE	267,4826586	0	256,5136972	252,1380293	0	0	TRUE	33,7%	220,9405767	0	0	TRUE	29,5%
4842	3	749,2767383	Non-Empty	696,681615	256,3924037	0	0	TRUE	246,408578	0	255,8617518	264,2785347	0	0	TRUE	35,3%	288,1833609	0	0	TRUE	38,5%
4843	1	700,9781185	Non-Empty	570,6213632	249,2959438	0	0	TRUE	274,3936851	0	229,8483787	218,9998087	0	0	TRUE	31,2%	275,3842608	0	0	TRUE	39,3%
4843	2	700,9781185	Non-Empty	568,2181331	216,8193359	0	0	TRUE	211,8436995	0	228,8803487	218,0774687	0	0	TRUE	31,1%	258,6943056	0	0	TRUE	36,9%
4843	3	700,9781185	Non-Empty	601,4081047	334,8628388	0	0	TRUE	214,7407338	0	242,2493911	263,9008411	0	0	TRUE	37,6%	166,899552	0	0	TRUE	23,8%
4844	1	1095,954439	Empty	563,764502	395,249284	172,2188761	0,157140543	FALSE	386,6006541	0,106093708	386,6006541	369,2990782	168,3010892	0,153565772	FALSE	33,7%	426,8454132	172,3254528	0,157237789	FALSE	38,9%
4844	2	1095,954439	Empty	529,3521438	356,9148229	172,2188761	0,157140543	FALSE	344,3440901	0,106093708	344,3440901	346,7569491	168,3010892	0,153565772	FALSE	31,6%	323,0181506	172,3254528	0,157237789	FALSE	29,5%
4844	3	1095,954439	Empty	482,4375577	343,7903325	172,2188761	0,157140543	FALSE	365,0096952	0,106093708	365,0096952	379,8984122	168,3010892	0,153565772	FALSE	34,7%	346,0908756	172,3254528	0,157237789	FALSE	31,6%
4845	1	1393,489736	Empty	762,9340978	501,0886223	130,6318967	0,093744427	FALSE	528,1990061	0,118493041	528,1990061	447,6041312	184,1163878	0,132126117	FALSE	32,1%	440,0493902	191,6711288	0,137547571	FALSE	31,6%
4845	2	1393,489736	Empty	750,7463725	449,306782	130,6318967	0,093744427	FALSE	436,8230508	0,118493041	436,8230508	440,4537414	184,1163878	0,132126117	FALSE	31,6%	425,3810772	191,6711288	0,137547571	FALSE	30,5%
4845	3	1393,489736	Empty	746,6768433	443,0943314	130,6318967	0,093744427	FALSE	428,4676789	0,118493041	428,4676789	505,4318632	184,1163878	0,132126117	FALSE	36,3%	528,0592683	191,6711288	0,137547571	FALSE	37,9%
4846	1	866,8294563	Non-Empty	746,7548989	273,8194129	0	0	TRUE	251,0136365	0	291,9464717	276,0639323	0	0	TRUE	31,8%	283,0463531	0	0	TRUE	32,7%
4846	2	866,8294563	Non-Empty	762,0893516	323,2035113	0	0	TRUE	334,4473806	0	297,9415303	281,7328464	0	0	TRUE	32,5%	291,8915516	0	0	TRUE	33,7%
4846	3	866,8294563	Non-Empty	708,3743347	269,8065321	0	0	TRUE	281,3684392	0	276,9414543	309,0326776	0	0	TRUE	35,7%	291,8915516	0	0	TRUE	33,7%
4847	1	1004,245524	Non-Empty	822,9049889	294,4423649	0	0	TRUE	330,6824666	0	306,260314	307,0956562	0	0	TRUE	30,6%	364,0390025	0	0	TRUE	36,3%
4847	2	1004,245524	Non-Empty	922,2837827	332,7912089	0	0	TRUE	308,0013608	0	343,2460912	344,1823142	0	0	TRUE	34,3%	288,7205882	0	0	TRUE	28,8%
4847	3	1004,245524	Non-Empty	953,1649295	377,0119502	0	0	TRUE	365,5616966	0	354,7391188	352,9675536	0	0	TRUE	35,1%	351,4859334	0	0	TRUE	35,0%
4848	1	491,7951242	Non-Empty	432,2842021	159,4729742	0	0	TRUE	149,6302259	0	165,9991953	157,9495767	0	0	TRUE	32,1%	183,7476288	0	0	TRUE	37,4%
4848	2	491,7951242	Non-Empty	438,2367212	179,8796442	0	0	TRUE	184,4910469	0	168,284991	160,1245298	0	0	TRUE	32,6%	140,5128926	0	0	TRUE	28,6%
4848	3	491,7951242	Non-Empty	410,1796397	152,4425058	0	0	TRUE	157,6738515	0	157,5109379	173,7210177	0	0	TRUE	35,3%	167,5346028	0	0	TRUE	34,1%
4849	1	644,2595371	Non-Empty	433,9174055	175,5733218	0	0	TRUE	197,3280997	0	188,3090997	183,8224549	0	0	TRUE	28,5%	208,7878129	0	0	TRUE	32,4%
4849	2	644,2595371	Non-Empty	536,8676989	244,5069394	0	0	TRUE	232,2450415	0	232,9869044	227,4357679	0	0	TRUE	35,3%	202,8224469	0	0	TRUE	31,5%
4849	3	644,2595371	Non-Empty	513,7710173	224,1792758	0	0	TRUE	214,6863959	0	222,963533	233,0013143	0	0	TRUE	36,2%	232,6492773	0	0	TRUE	36,1%
4850	1	658,6564047	Non-Empty	561,0404664	192,8643936	0	0	TRUE	207,3091638	0	204,5552303	209,0879804	0	0	TRUE	31,7%	222,0190128	0	0	TRUE	33,7%
4850	2	658,6564047	Non-Empty	589,7992896	205,928336	0	0	TRUE	204,6782255	0	215,0406909	219,8057889	0	0	TRUE	33,4%	207,2177453	0	0	TRUE	31,5%
4850	3	658,6564047	Non-Empty	655,6791777	259,8636751	0	0	TRUE	246,6690154	0	239,0604836	229,7626354	0	0	TRUE	34,9%	229,4196466	0	0	TRUE	34,8%
4851	1	1062,408728	Empty	546,7994005	341,0768219	117,8288466	0,110907265	FALSE	342,6559356	0,009848775	342,6559356	341,3923052	118,8978031	0,111913428	FALSE	32,1%	374,9677863	190,0393269	0,178875909	FALSE	35,3%
4851	2	1062,408728	Empty	569,9396272	360,5629153	117,8288466	0,110907265	FALSE	358,4878956	0,009848775	358,4878956	355,8398254	118,8978031	0,111913428	FALSE	33,5%	399,9656388	190,0393269	0,178875909	FALSE	37,6%
4851	3	1062,408728	Empty	567,5747771	360,7689908	117,8288466	0,110907265	FALSE	361,2648968	0,009848775	361,2648968	365,1765974	118,8978031	0,111913428	FALSE	34,4%	287,4753029	190,0393269	0,178875909	FALSE	27,1%
4852	1	964,1769646	Empty	477,5543462	290,7279588	60,72678091	0,062983024	FALSE	304,4987021	0,065185804	304,4987021	302,8433845	49,77476294	0,051624095	FALSE	31,4%	329,2311587	58,50177064	0,060675346	FALSE	34,1%
4852	2	964,1769646	Empty	477,3020652	291,7313814	60,72678091	0,062983024	FALSE	306,7578282	0,065185804	306,7578282	302,6833994	49,77476294	0,051624095	FALSE	31,4%	293,9563917	58,50177064	0,060675346	FALSE	30,5%
4852	3	964,1769646	Empty	611,1119451	381,7176244	60,72678091	0,062983024	FALSE	352,9204344	0,065185804	352,9204344	358,6501807	49,77476294	0,051624095	FALSE	37,2%	340,9894143	58,50177064	0,060675346	FALSE	35,4%
4853	1	833,1887274	Non-Empty	794,6214565	305,8824636	0	0	TRUE	307,8409432	0	287,1969181	276,8704022	0	0	TRUE	33,2%	305,8540898	0	0	TRUE	36,7%
4853	2	833,1887274	Non-Empty	764,4484406	270,67449	0	0	TRUE	267,5980119	0	276,2916032	266,3572012	0	0	TRUE	32,0%	284,7607043	0	0	TRUE	34,2%
4853	3	833,1887274	Non-Empty	746,2112476	256,6317738	0	0	TRUE	257,7497724	0	269,7002061	289,961124	0	0	TRUE	34,8%	242,5739333	0	0	TRUE	29,1%
4854	1	1539,464733	Empty	860,4959803</																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4868	1	1583,726638	Empty	759,7143564	508,0855073	243,3593829	0,153662493	FALSE	510,0867015	0,017487238	510,0867015	498,119979	266,1712566	0,168066414	FALSE	31,5%	595,857547	366,5630054	0,231455983	FALSE	37,6%
4868	2	1583,726638	Empty	822,7412748	566,6844888	243,3593829	0,153662493	FALSE	564,257746	0,017487238	564,257746	539,4446782	266,1712566	0,168066414	FALSE	34,1%	439,0529293	366,5630054	0,231455983	FALSE	27,7%
4868	3	1583,726638	Empty	762,1611367	508,9566419	243,3593829	0,153662493	FALSE	509,3821904	0,017487238	509,3821904	546,1619808	266,1712566	0,168066414	FALSE	34,5%	548,8161617	366,5630054	0,231455983	FALSE	34,7%
4869	1	791,9781658	Non-Empty	687,9274369	241,7346114	0	0	TRUE	243,085846	0	255,2332376	249,5443508	0	0	TRUE	31,5%	211,1941775	0	0	TRUE	26,7%
4869	2	791,9781658	Non-Empty	727,3310295	285,1888067	0	0	TRUE	290,5906441	0	269,8526669	263,837928	0	0	TRUE	33,3%	295,6718486	0	0	TRUE	37,3%
4869	3	791,9781658	Non-Empty	719,3518799	265,0547477	0	0	TRUE	258,3016757	0	266,8922613	278,595887	0	0	TRUE	35,2%	285,1121397	0	0	TRUE	36,0%
4870	1	852,2042614	Non-Empty	740,7258623	274,25251	0	0	TRUE	279,9359712	0	278,2460332	280,5682249	0	0	TRUE	32,9%	244,7820751	0	0	TRUE	28,7%
4870	2	852,2042614	Non-Empty	740,2196524	256,4514123	0	0	TRUE	244,8399857	0	278,0558807	280,3764854	0	0	TRUE	32,9%	308,2440946	0	0	TRUE	36,2%
4870	3	852,2042614	Non-Empty	787,7291871	321,5003391	0	0	TRUE	327,4283045	0	295,9023475	291,2595512	0	0	TRUE	34,2%	299,1780918	0	0	TRUE	35,1%
4871	1	840,7216314	Non-Empty	765,52577	294,9136862	0	0	TRUE	299,797406	0	283,8706367	271,5698964	0	0	TRUE	32,3%	382,1461961	0	0	TRUE	45,5%
4871	2	840,7216314	Non-Empty	780,2865142	286,4933241	0	0	TRUE	268,1959375	0	289,3441844	276,8062633	0	0	TRUE	32,9%	229,2877177	0	0	TRUE	27,3%
4871	3	840,7216314	Non-Empty	721,3967577	259,3146211	0	0	TRUE	272,7282879	0	267,5068103	292,3454717	0	0	TRUE	34,8%	229,2877177	0	0	TRUE	27,3%
4872	1	833,4576765	Non-Empty	709,0752931	268,8332778	0	0	TRUE	261,5490168	0	277,1540925	261,1116767	0	0	TRUE	31,3%	290,74105	0	0	TRUE	34,9%
4872	2	833,4576765	Non-Empty	727,7247856	315,7600632	0	0	TRUE	336,753095	0	284,4435626	267,9792129	0	0	TRUE	32,2%	310,1237866	0	0	TRUE	37,2%
4872	3	833,4576765	Non-Empty	695,5308605	248,8643355	0	0	TRUE	235,1555648	0	271,8600215	304,3667869	0	0	TRUE	36,5%	232,59284	0	0	TRUE	27,9%
4873	1	859,6285052	Non-Empty	720,1966475	282,8723825	0	0	TRUE	270,2986905	0	290,1294836	271,3374852	0	0	TRUE	31,6%	237,7695866	0	0	TRUE	27,7%
4873	2	859,6285052	Non-Empty	758,6559622	320,2608888	0	0	TRUE	306,6163884	0	305,6227259	285,8272134	0	0	TRUE	33,3%	274,3495229	0	0	TRUE	31,9%
4873	3	859,6285052	Non-Empty	655,0276143	256,4952339	0	0	TRUE	282,7134263	0	263,8762957	302,4638066	0	0	TRUE	35,2%	347,5093957	0	0	TRUE	40,4%
4874	1	1253,497765	Empty	631,6796291	414,0578264	154,0532418	0,122898697	FALSE	405,0255776	0,073437917	405,0255776	413,2011759	153,1818622	0,122203538	FALSE	33,0%	471,9050411	234,3762293	0,18697778	FALSE	37,6%
4874	2	1253,497765	Empty	619,4072628	405,1881707	154,0532418	0,122898697	FALSE	399,5586326	0,073437917	399,5586326	405,1734416	153,1818622	0,122203538	FALSE	32,3%	427,6639435	234,3762293	0,18697778	FALSE	34,1%
4874	3	1253,497765	Empty	628,1795354	434,2517683	154,0532418	0,122898697	FALSE	448,9135552	0,073437917	448,9135552	435,1231479	153,1818622	0,122203538	FALSE	34,7%	353,9287808	234,3762293	0,18697778	FALSE	28,2%
4875	1	1373,451414	Empty	681,3064162	457,0278761	152,5336834	0,111058667	FALSE	459,1110868	0,050172436	459,1110868	414,7397605	177,1711208	0,128997006	FALSE	30,2%	428,2805483	164,2823528	0,119612788	FALSE	31,2%
4875	2	1373,451414	Empty	759,2956462	511,1167958	152,5336834	0,111058667	FALSE	489,2996962	0,050172436	489,2996962	462,2150724	177,1711208	0,128997006	FALSE	33,7%	457,8171379	164,2823528	0,119612788	FALSE	33,3%
4875	3	1373,451414	Empty	611,9346036	405,3067417	152,5336834	0,111058667	FALSE	425,0406306	0,050172436	425,0406306	496,4965807	177,1711208	0,128997006	FALSE	36,1%	487,3537274	164,2823528	0,119612788	FALSE	35,5%
4876	1	803,4522736	Non-Empty	658,2443928	234,507228	0	0	TRUE	224,312428	0	258,731614	263,6006059	0	0	TRUE	32,8%	323,2279262	0	0	TRUE	40,2%
4876	2	803,4522736	Non-Empty	664,2166768	246,8107026	0	0	TRUE	242,9470932	0	261,0790987	265,9922672	0	0	TRUE	33,1%	249,3472573	0	0	TRUE	31,0%
4876	3	803,4522736	Non-Empty	721,6182985	322,1343431	0	0	TRUE	336,1927524	0	283,6415609	273,8594005	0	0	TRUE	34,1%	230,8770901	0	0	TRUE	28,7%
4877	1	868,1126426	Empty	339,0221816	229,8230411	115,9403065	0,13355445	FALSE	242,7992021	0,062765293	242,7992021	220,7024054	140,2273776	0,161531316	FALSE	25,4%	317,195004	153,6817157	0,177029694	FALSE	36,5%
4877	2	868,1126426	Empty	495,0900406	366,2400382	115,9403065	0,13355445	FALSE	359,5653373	0,062765293	359,5653373	322,3021052	140,2273776	0,161531316	FALSE	37,1%	308,8477671	153,6817157	0,177029694	FALSE	35,6%
4877	3	868,1126426	Empty	400,5263248	272,0495632	115,9403065	0,13355445	FALSE	265,7481031	0,062765293	265,7481031	325,1081321	140,2273776	0,161531316	FALSE	37,4%	242,0698715	153,6817157	0,177029694	FALSE	27,9%
4878	1	936,5063349	Non-Empty	793,0627565	289,8782779	0	0	TRUE	298,3782888	0	300,5018509	297,4269411	0	0	TRUE	31,8%	285,520224	0	0	TRUE	30,5%
4878	2	936,5063349	Non-Empty	809,7197081	309,226377	0	0	TRUE	320,4175354	0	306,8133877	303,6738946	0	0	TRUE	32,4%	251,2577972	0	0	TRUE	26,8%
4878	3	936,5063349	Non-Empty	868,7773385	337,4016799	0	0	TRUE	317,7105107	0	329,1910963	335,4054991	0	0	TRUE	35,8%	399,7283137	0	0	TRUE	42,7%
4879	1	1212,509384	Empty	665,9422692	429,5639864	144,4469297	0,119130566	FALSE	418,3910839	0,059421853	418,3910839	423,6838406	146,5708634	0,120882251	FALSE	34,9%	443,032275	159,8880515	0,131865414	FALSE	36,5%
4879	2	1212,509384	Empty	560,3270357	358,6135597	144,4469297	0,119130566	FALSE	382,1054639	0,059421853	382,1054639	356,489626	146,5708634	0,120882251	FALSE	29,4%	396,3972987	159,8880515	0,131865414	FALSE	32,7%
4879	3	1212,509384	Empty	661,85622	424,3318381	144,4469297	0,119130566	FALSE	412,0128365	0,059421853	412,0128365	432,3359176	146,5708634	0,120882251	FALSE	35,7%	373,0798105	159,8880515	0,131865414	FALSE	30,8%
4880	1	1681,414611	Empty	796,4726868	516,0132712	231,0095224	0,137389982	FALSE	528,201869	0,021314419	528,201869	533,9578646	247,8208513	0,147388306	FALSE	31,8%	621,3923564	311,4475787	0,185229495	FALSE	37,0%
4880	2	1681,414611	Empty	853,3597527	554,7814729	231,0095224	0,137389982	FALSE	548,8512065	0,021314419	548,8512065	572,0951376	247,8208513	0,147388306	FALSE	34,0%	548,2873733	311,4475787	0,185229495	FALSE	32,6%
4880	3	1681,414611	Empty	909,5262122	610,6198673	231,0095224	0,137389982	FALSE	604,3615358	0,021314419	604,3615358	575,3616091	247,8208513	0,147388306	FALSE	34,2%	511,7348817	311,4475787	0,185229495	FALSE	30,4%
4881	1	574,9570104	Non-Empty	451,0221745	164,1119123	0	0	TRUE	150,9632863	0	185,7259531	184,5534955	0	0	TRUE	32,1%	184,2810931	0	0	TRUE	32,1%
4881	2	574,9570104	Non-Empty	451,4299587	189,6678107	0	0	TRUE	201,6672988	0	185,8938741	184,7203564	0	0	TRUE	32,1%	206,3948242	0	0	TRUE	35,9%
4881	3	574,9570104	Non-Empty	493,7897856	221,1772874	0	0	TRUE	222,3264253	0	203,3371832	205,6831585	0	0	TRUE	35,8%	184,2810931	0	0	TRUE	32,1%
4882	1	758,5985776	Non-Empty	612,9858406	223,1579114	0	0	TRUE	247,5786613	0	232,3488835	226,5731356	0	0	TRUE	29,9%	206,8905212	0	0	TRUE	27,3%
4882	2	758,5985776	Non-Empty	695,5190001	276,5812905	0	0	TRUE	271,8922598	0	263,63262	257,0792183	0	0	TRUE	33,9%	245,2035806	0	0	TRUE	32,3%
4882	3	758,5985776	Non-Empty	692,8397738	258,8593757	0	0	TRUE	239,1276565	0	262,6170741	274,9462238	0	0	TRUE	36,2%	306,5044758	0	0	TRUE	40,4%
4883	1	961,187808	Empty	522,3653659	329,5304361	89,02082418	0,092615432	FALSE	337,6484996	0,06043263	337,6484996	308,7097313	109,841529	0,114276865	FALSE	32,1%	338,0001083	151,0143888	0,15711226	FALSE	35,2%
4883	2	961,187808	Empty	534,2581988	323,1772058	89,02082418	0,092615432	FALSE	313,0492059	0,06043263	313,0492059	315,7382088	109,841529	0,114276865	FALSE	32,8%	242,9375778	151,0143888	0,15711226	FALSE	25,3%
4883	3	961,187808	Empty	507,423223	308,4801661	89,02082418	0,092615432	FALSE	310,4901024	0,06043263	310,4901024	336,7398679	109,841529	0,114276865	FALSE	35,0%	380,2501218	151,0143888	0,15711226	FALSE	39,6%
4884	1	699,6065457	Non-Empty	589,4871452	242,971331	0	0	TRUE	262,5441115	0	229,3872922	218,2376259	0	0	TRUE	31,2%	276,927591	0	0	TRUE	39,6%
4884	2	699,6065457	Non-Empty	616,037266	237,6937642	0	0	TRUE	225,4388571												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4899	1	756,9849313	Non-Empty	543,0695642	257,2459264	0	0	TRUE	257,4607207	0	254,5324864	249,7037885	0	0	TRUE	33,0%	222,6426268	0	0	TRUE	29,4%
4899	2	756,9849313	Non-Empty	542,6926859	251,1779393	0	0	TRUE	245,7016249	0	254,3558465	249,5304996	0	0	TRUE	33,0%	282,013994	0	0	TRUE	37,3%
4899	3	756,9849313	Non-Empty	529,3379777	248,5610656	0	0	TRUE	253,8225856	0	248,0965984	257,7506432	0	0	TRUE	34,0%	252,3283104	0	0	TRUE	33,3%
4900	1	923,1380493	Non-Empty	883,8284574	334,3589218	0	0	TRUE	325,1077354	0	320,7397956	307,0372894	0	0	TRUE	33,3%	338,8734611	0	0	TRUE	36,7%
4900	2	923,1380493	Non-Empty	866,8963235	311,3761864	0	0	TRUE	296,0743986	0	314,595154	301,1551564	0	0	TRUE	32,6%	315,5028776	0	0	TRUE	34,2%
4900	3	923,1380493	Non-Empty	793,0683161	277,4029411	0	0	TRUE	301,9559152	0	287,803997	314,9456035	0	0	TRUE	34,1%	268,7617106	0	0	TRUE	29,1%
4901	1	952,5767549	Non-Empty	665,8821359	297,2295268	0	0	TRUE	286,4380473	0	313,0571125	311,8482568	0	0	TRUE	32,7%	317,525585	0	0	TRUE	33,3%
4901	2	952,5767549	Non-Empty	679,6464106	317,3051613	0	0	TRUE	312,8250418	0	319,5282339	318,2943902	0	0	TRUE	33,4%	326,3457401	0	0	TRUE	34,3%
4901	3	952,5767549	Non-Empty	680,6315975	338,0420668	0	0	TRUE	353,3136659	0	319,9914085	322,4341078	0	0	TRUE	33,8%	308,7054298	0	0	TRUE	32,4%
4902	1	915,6741974	Empty	432,6927544	274,1906663	83,14846375	0,09080573	FALSE	300,8931979	0,127698065	300,8931979	259,915814	97,423316	0,106395174	FALSE	28,4%	358,3072946	110,5696616	0,120752187	FALSE	39,1%
4902	2	915,6741974	Empty	524,3670117	331,0082962	83,14846375	0,09080573	FALSE	322,8542004	0,127698065	322,8542004	314,9839634	97,423316	0,106395174	FALSE	34,4%	268,730471	110,5696616	0,120752187	FALSE	29,3%
4902	3	915,6741974	Empty	514,2282903	310,4752349	83,14846375	0,09080573	FALSE	291,9267991	0,127698065	291,9267991	340,7744199	97,423316	0,106395174	FALSE	37,2%	288,6364318	110,5696616	0,120752187	FALSE	31,5%
4903	1	741,2059842	Non-Empty	601,5125578	223,0584565	0	0	TRUE	230,8405733	0	234,665652	221,0265904	0	0	TRUE	29,8%	216,9383368	0	0	TRUE	29,3%
4903	2	741,2059842	Non-Empty	694,4471324	299,1402494	0	0	TRUE	290,0695845	0	270,9218403	255,1755236	0	0	TRUE	34,4%	280,2120184	0	0	TRUE	37,8%
4903	3	741,2059842	Non-Empty	603,9549483	219,0072783	0	0	TRUE	220,2958264	0	235,6184919	265,0038702	0	0	TRUE	35,8%	244,0556289	0	0	TRUE	32,9%
4904	1	669,8600032	Non-Empty	602,215057	229,0675534	0	0	TRUE	225,9296091	0	226,6432638	219,0899074	0	0	TRUE	32,7%	192,4065967	0	0	TRUE	28,7%
4904	2	669,8600032	Non-Empty	572,2343907	221,8126848	0	0	TRUE	241,4005383	0	215,3600586	208,1827384	0	0	TRUE	31,1%	242,2897884	0	0	TRUE	36,2%
4904	3	669,8600032	Non-Empty	605,4392339	218,9797651	0	0	TRUE	202,5298557	0	227,8566808	242,5873575	0	0	TRUE	36,2%	235,1636182	0	0	TRUE	35,1%
4905	1	846,8133073	Non-Empty	793,1536743	307,4012331	0	0	TRUE	310,2759178	0	290,4201278	281,3048477	0	0	TRUE	33,2%	249,7013598	0	0	TRUE	29,5%
4905	2	846,8133073	Non-Empty	767,1509342	270,8073794	0	0	TRUE	263,0909507	0	280,898998	272,0825531	0	0	TRUE	32,1%	314,840845	0	0	TRUE	37,2%
4905	3	846,8133073	Non-Empty	752,3900769	268,6046948	0	0	TRUE	273,4464387	0	275,4941815	293,4259066	0	0	TRUE	34,7%	282,2711024	0	0	TRUE	33,3%
4906	1	877,1398575	Non-Empty	786,324414	282,6061998	0	0	TRUE	280,7464207	0	289,4666115	291,8389847	0	0	TRUE	33,3%	301,8115639	0	0	TRUE	34,4%
4906	2	877,1398575	Non-Empty	770,4897969	269,2317483	0	0	TRUE	269,8321348	0	283,6374742	285,9620737	0	0	TRUE	32,6%	245,2218956	0	0	TRUE	28,0%
4906	3	877,1398575	Non-Empty	825,9009521	325,3019095	0	0	TRUE	326,561302	0	304,0357717	299,3387991	0	0	TRUE	34,1%	330,106398	0	0	TRUE	37,6%
4907	1	648,3441825	Non-Empty	448,5100989	187,080504	0	0	TRUE	195,9375166	0	199,279136	200,1461155	0	0	TRUE	30,9%	230,522376	0	0	TRUE	35,6%
4907	2	648,3441825	Non-Empty	473,7358099	196,203332	0	0	TRUE	188,9574617	0	210,4872624	211,4030038	0	0	TRUE	32,6%	217,2994305	0	0	TRUE	28,9%
4907	3	648,3441825	Non-Empty	536,9580962	265,0603464	0	0	TRUE	263,4492042	0	238,577784	236,7950632	0	0	TRUE	36,5%	230,522376	0	0	TRUE	35,6%
4908	1	834,6260132	Non-Empty	754,5552119	285,5755541	0	0	TRUE	280,5744819	0	282,8447953	282,9665321	0	0	TRUE	33,9%	225,83998	0	0	TRUE	27,1%
4908	2	834,6260132	Non-Empty	708,3658198	244,0326854	0	0	TRUE	243,6781437	0	265,530713	265,6449978	0	0	TRUE	31,8%	265,1164983	0	0	TRUE	31,8%
4908	3	834,6260132	Non-Empty	763,6407525	305,0177737	0	0	TRUE	310,3733876	0	286,2505048	286,0144833	0	0	TRUE	34,3%	343,6695348	0	0	TRUE	41,2%
4909	1	916,517555	Non-Empty	754,4757853	257,0617074	0	0	TRUE	256,9694568	0	287,1061541	289,4900238	0	0	TRUE	31,6%	290,0372009	0	0	TRUE	31,6%
4909	2	916,517555	Non-Empty	816,5249275	316,3124399	0	0	TRUE	313,4217798	0	310,7181652	313,2980876	0	0	TRUE	34,2%	313,240177	0	0	TRUE	34,2%
4909	3	916,517555	Non-Empty	837,4823242	343,1434076	0	0	TRUE	346,1263184	0	318,6932357	313,7294436	0	0	TRUE	34,2%	313,240177	0	0	TRUE	34,2%
4910	1	1491,221796	Empty	732,6672541	474,8064575	175,9872247	0,118015459	FALSE	472,1913852	0,025733677	472,1913852	475,5910651	189,3112389	0,126950424	FALSE	31,9%	568,0844939	244,1747812	0,163741424	FALSE	38,1%
4910	2	1491,221796	Empty	757,8386502	505,2544079	175,9872247	0,118015459	FALSE	507,9158899	0,025733677	507,9158899	491,9303937	189,3112389	0,126950424	FALSE	33,0%	482,8718198	244,1747812	0,163741424	FALSE	32,4%
4910	3	1491,221796	Empty	766,4530649	511,160931	175,9872247	0,118015459	FALSE	511,1145213	0,025733677	511,1145213	523,7003376	189,3112389	0,126950424	FALSE	35,1%	440,2654827	244,1747812	0,163741424	FALSE	29,5%
4911	1	841,919733	Non-Empty	739,9006081	267,3380847	0	0	TRUE	255,6651894	0	280,0234244	275,5853711	0	0	TRUE	32,7%	310,1809543	0	0	TRUE	36,8%
4911	2	841,919733	Non-Empty	715,9961012	278,8996058	0	0	TRUE	302,6927384	0	270,976504	266,6818342	0	0	TRUE	31,7%	232,6357157	0	0	TRUE	27,6%
4911	3	841,919733	Non-Empty	768,6919077	295,6820425	0	0	TRUE	283,5618053	0	290,9198046	299,6525277	0	0	TRUE	35,6%	299,1030631	0	0	TRUE	35,5%
4912	1	1486,417149	Empty	806,3762032	539,5521629	190,3405827	0,128053274	FALSE	516,9941036	0,113470516	516,9941036	514,4641151	160,9444203	0,108276752	FALSE	34,6%	469,394889	207,8179589	0,13981133	FALSE	31,6%
4912	2	1486,417149	Empty	714,244612	459,9927205	190,3405827	0,128053274	FALSE	450,0068099	0,113470516	450,0068099	455,6846058	160,9444203	0,108276752	FALSE	30,7%	547,6273705	207,8179589	0,13981133	FALSE	36,8%
4912	3	1486,417149	Empty	698,5942763	486,8722652	190,3405827	0,128053274	FALSE	519,416235	0,113470516	519,416235	516,2684276	160,9444203	0,108276752	FALSE	34,7%	469,394889	207,8179589	0,13981133	FALSE	31,6%
4913	1	694,7126707	Non-Empty	590,5123163	257,4992801	0	0	TRUE	280,674752	0	232,6555104	219,7695634	0	0	TRUE	31,6%	191,0459844	0	0	TRUE	27,5%
4913	2	694,7126707	Non-Empty	593,9677822	223,4169707	0	0	TRUE	209,0546673	0	234,0169268	221,0555759	0	0	TRUE	31,8%	260,5172515	0	0	TRUE	37,5%
4913	3	694,7126707	Non-Empty	578,7980961	213,7964198	0	0	TRUE	204,9832515	0	228,0402334	253,8875314	0	0	TRUE	36,5%	243,1494347	0	0	TRUE	35,0%
4914	1	925,8929988	Empty	495,9146544	314,1631886	118,7048864	0,128205836	FALSE	296,2929699	0,137103985	296,2929699	329,4551558	117,6290855	0,12704393	FALSE	35,6%	272,3214702	113,6160054	0,12270965	FALSE	29,4%
4914	2	925,8929988	Empty	398,4521073	263,6312408	118,7048864	0,128205836	FALSE	292,6916214	0,137103985	292,6916214	264,7070417	117,6290855	0,12704393	FALSE	28,6%	315,8929055	113,6160054	0,12270965	FALSE	34,1%
4914	3	925,8929988	Empty	523,1699786	348,0985694	118,7048864	0,128205836	FALSE	336,9084074	0,137103985	336,9084074	331,7308013	117,6290855	0,12704393	FALSE	35,8%	337,6786231	113,6160054	0,12270965	FALSE	36,5%
4915	1	1460,406556	Empty	715,1442748	476,3585671	214,3121142	0,146748255	FALSE	464,8486578	0,104916393	464,8486578	470,2764356	198,2427811	0,135744927	FALSE	32,2%	477,1625383	192,883008	0,132074871	FALSE	32,7%
4915	2	1460,406556	Empty	744,238067	499,3956156	214,3121142	0,146748255	FALSE	481,8289626	0,104916393	481,8289626	489,4084141	198,2427811	0,135744927	FALSE	33,5%	477,1625383	192,883008	0,132074871	FALSE	32,7%
4915	3	1460,406556	Empty	682,8516097	484,6523737	214,3121142	0,146748255	FALSE	513,7289361	0,104916393	513,7289361	500,7217068	198,2427811	0,135744927	FALSE	34,3%	506,08148	192,883008	0,132074871	FALSE	34,7%
4916	1	1697,405817	Empty	732,4026133	510,5796915	284,8165283															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4930	1	765,9876853	Non-Empty	687,2905974	289,180612	0	0	TRUE	285,6893788	0	269,9991126	264,0876678	0	0	TRUE	34,5%	261,1321655	0	0	TRUE	34,1%
4930	2	765,9876853	Non-Empty	592,3730513	209,0109453	0	0	TRUE	220,2675913	0	232,7111687	227,6161178	0	0	TRUE	29,7%	278,5409765	0	0	TRUE	36,4%
4930	3	765,9876853	Non-Empty	670,1802929	267,796128	0	0	TRUE	260,0307152	0	263,2774041	274,2838996	0	0	TRUE	35,8%	226,3145434	0	0	TRUE	29,5%
4931	1	1655,561712	Empty	881,7227857	604,0005325	223,8600715	0,13521699	FALSE	599,3604381	0,026178443	599,3604381	566,9851487	247,728289	0,149633981	FALSE	34,2%	562,8909821	281,6080008	0,17009816	FALSE	34,0%
4931	2	1655,561712	Empty	782,4570086	517,8819217	223,8600715	0,13521699	FALSE	526,3889935	0,026178443	526,3889935	503,1530438	247,728289	0,149633981	FALSE	30,4%	629,1134505	281,6080008	0,17009816	FALSE	38,0%
4931	3	1655,561712	Empty	810,6283938	533,6792577	223,8600715	0,13521699	FALSE	529,8122804	0,026178443	529,8122804	585,4235194	247,728289	0,149633981	FALSE	35,4%	463,5572793	281,6080008	0,17009816	FALSE	28,0%
4932	1	988,0195677	Non-Empty	687,6659696	328,4711045	0	0	TRUE	324,6273185	0	330,7708628	314,7529782	0	0	TRUE	31,9%	358,3992549	0	0	TRUE	36,3%
4932	2	988,0195677	Non-Empty	692,1667201	351,5567614	0	0	TRUE	366,2978816	0	332,935747	316,8130259	0	0	TRUE	32,1%	329,3398559	0	0	TRUE	33,3%
4932	3	988,0195677	Non-Empty	674,2401152	307,9917018	0	0	TRUE	297,0943676	0	324,3129579	356,4535636	0	0	TRUE	36,1%	300,2804568	0	0	TRUE	30,4%
4933	1	511,0437012	Non-Empty	352,6439883	125,4991016	0	0	TRUE	136,0046249	0	147,2363033	154,323698	0	0	TRUE	30,2%	172,1410362	0	0	TRUE	33,7%
4933	2	511,0437012	Non-Empty	402,522958	157,7855629	0	0	TRUE	150,6985779	0	168,0618252	176,1516812	0	0	TRUE	34,5%	188,2792583	0	0	TRUE	36,8%
4933	3	511,0437012	Non-Empty	468,8279852	227,7590368	0	0	TRUE	224,3404985	0	195,7455727	180,5683221	0	0	TRUE	35,3%	150,6234067	0	0	TRUE	29,5%
4934	1	777,5279475	Non-Empty	731,2338206	277,2864961	0	0	TRUE	278,7013683	0	265,231795	254,6661785	0	0	TRUE	32,8%	278,3742034	0	0	TRUE	35,8%
4934	2	777,5279475	Non-Empty	725,91705	266,2483364	0	0	TRUE	261,9418196	0	263,3033057	252,8145113	0	0	TRUE	32,5%	287,9733139	0	0	TRUE	37,0%
4934	3	777,5279475	Non-Empty	686,4636673	233,9931151	0	0	TRUE	236,8847597	0	248,9928468	270,0472577	0	0	TRUE	34,7%	211,1804302	0	0	TRUE	27,2%
4935	1	1728,096718	Empty	821,6275888	570,1201926	251,5073962	0,145540116	FALSE	590,9279224	0,09078137	590,9279224	561,3868033	260,2407856	0,150593878	FALSE	32,5%	533,1362216	314,779238	0,182153715	FALSE	30,9%
4935	2	1728,096718	Empty	827,3776807	537,5077787	251,5073962	0,145540116	FALSE	519,9530027	0,09078137	519,9530027	565,3156218	260,2407856	0,150593878	FALSE	32,7%	661,8242751	314,779238	0,182153715	FALSE	38,3%
4935	3	1728,096718	Empty	896,0368269	620,4687471	251,5073962	0,145540116	FALSE	617,2157932	0,09078137	617,2157932	601,3942933	260,2407856	0,150593878	FALSE	34,8%	533,1362216	314,779238	0,182153715	FALSE	30,9%
4936	1	961,0086479	Non-Empty	876,7061416	325,1243566	0	0	TRUE	321,7375056	0	323,3513593	325,9683287	0	0	TRUE	33,9%	356,3290492	0	0	TRUE	37,1%
4936	2	961,0086479	Non-Empty	813,3649673	277,5265662	0	0	TRUE	289,8830992	0	299,989535	302,4174309	0	0	TRUE	31,5%	323,9354993	0	0	TRUE	33,7%
4936	3	961,0086479	Non-Empty	915,5223411	358,3577251	0	0	TRUE	349,3880431	0	337,6677536	332,6228883	0	0	TRUE	34,6%	280,7440994	0	0	TRUE	29,2%
4937	1	614,1492954	Non-Empty	479,9104251	211,5834065	0	0	TRUE	214,8939006	0	206,2448542	191,5607259	0	0	TRUE	31,2%	197,8925507	0	0	TRUE	32,2%
4937	2	614,1492954	Non-Empty	475,0693068	212,1075019	0	0	TRUE	220,7832096	0	204,1643498	189,6283484	0	0	TRUE	30,9%	252,4835992	0	0	TRUE	41,1%
4937	3	614,1492954	Non-Empty	474,0821016	190,458387	0	0	TRUE	178,4721851	0	203,7400915	232,9602211	0	0	TRUE	37,9%	163,7731454	0	0	TRUE	26,7%
4938	1	832,9094284	Empty	457,0286657	334,9132469	90,8363733	0,109059125	FALSE	338,7203516	0,199642503	338,7203516	289,3814876	122,5844225	0,147176173	FALSE	34,7%	217,2807205	194,6851896	0,233741128	FALSE	26,1%
4938	2	832,9094284	Empty	380,8265891	233,5061462	90,8363733	0,109059125	FALSE	212,1082268	0,199642503	212,1082268	241,1318439	122,5844225	0,147176173	FALSE	29,0%	325,9210807	194,6851896	0,233741128	FALSE	39,1%
4938	3	832,9094284	Empty	372,8217439	264,4900353	90,8363733	0,109059125	FALSE	282,0808501	0,199642503	282,0808501	302,396097	122,5844225	0,147176173	FALSE	36,3%	289,7076273	194,6851896	0,233741128	FALSE	34,8%
4939	1	1262,774817	Empty	631,8812951	422,9865607	195,7388132	0,155006903	FALSE	416,3960223	0,031397218	416,3960223	407,8660115	206,4137637	0,163460469	FALSE	32,3%	390,5489125	212,4540447	0,168243809	FALSE	30,9%
4939	2	1262,774817	Empty	651,6665715	445,5424096	195,7388132	0,155006903	FALSE	441,7224437	0,031397218	441,7224437	420,636989	206,4137637	0,163460469	FALSE	33,3%	494,6952892	212,4540447	0,168243809	FALSE	39,2%
4939	3	1262,774817	Empty	586,1395388	394,245847	195,7388132	0,155006903	FALSE	404,6563512	0,031397218	404,6563512	434,2718167	206,4137637	0,163460469	FALSE	34,4%	377,5306155	212,4540447	0,168243809	FALSE	29,9%
4940	1	689,7139492	Non-Empty	545,690151	221,7166368	0	0	TRUE	250,3878242	0	215,3580684	211,4150301	0	0	TRUE	30,7%	285,3988755	0	0	TRUE	41,4%
4940	2	689,7139492	Non-Empty	575,8730063	217,2183591	0	0	TRUE	211,2084135	0	227,2698124	223,1086795	0	0	TRUE	32,3%	206,1214101	0	0	TRUE	29,9%
4940	3	689,7139492	Non-Empty	626,0848967	250,7789533	0	0	TRUE	228,1177116	0	247,0860684	255,1902397	0	0	TRUE	37,0%	198,1936636	0	0	TRUE	28,7%
4941	1	1092,026322	Empty	523,6788704	338,4464386	103,6372674	0,094903635	FALSE	347,223587	0,033459323	347,223587	334,1175566	109,7737855	0,100523022	FALSE	30,6%	342,0805345	100,0031715	0,091575789	FALSE	31,3%
4941	2	1092,026322	Empty	562,0386612	370,7673076	103,6372674	0,094903635	FALSE	373,5055342	0,033459323	373,5055342	358,5918677	109,7737855	0,100523022	FALSE	32,8%	368,3944218	100,0031715	0,091575789	FALSE	33,7%
4941	3	1092,026322	Empty	588,3375305	382,8125754	103,6372674	0,094903635	FALSE	371,2972006	0,033459323	371,2972006	399,3168974	109,7737855	0,100523022	FALSE	36,6%	381,5513654	100,0031715	0,091575789	FALSE	34,9%
4942	1	958,5787493	Non-Empty	846,6493433	375,3188548	0	0	TRUE	378,1774398	0	340,8359164	314,0278376	0	0	TRUE	32,8%	358,2567043	0	0	TRUE	37,4%
4942	2	958,5787493	Non-Empty	795,7392216	319,0968517	0	0	TRUE	316,6435553	0	320,3410113	295,144937	0	0	TRUE	30,8%	377,6219315	0	0	TRUE	39,4%
4942	3	958,5787493	Non-Empty	738,7574046	264,1630427	0	0	TRUE	263,7577543	0	297,4018216	349,4059748	0	0	TRUE	36,5%	222,7001135	0	0	TRUE	23,2%
4943	1	788,3944863	Non-Empty	685,3344409	246,6109253	0	0	TRUE	253,0541639	0	254,397679	252,1172505	0	0	TRUE	32,0%	262,7981621	0	0	TRUE	33,3%
4943	2	788,3944863	Non-Empty	714,8094353	265,3474237	0	0	TRUE	261,0521664	0	265,3388629	262,9603574	0	0	TRUE	33,4%	254,0382234	0	0	TRUE	32,2%
4943	3	788,3944863	Non-Empty	723,7508726	276,4361372	0	0	TRUE	274,2881561	0	268,6579444	273,3168784	0	0	TRUE	34,7%	271,5581008	0	0	TRUE	34,4%
4944	1	861,0812255	Non-Empty	841,2335462	308,3751081	0	0	TRUE	293,0413261	0	300,1134606	286,5440451	0	0	TRUE	33,3%	338,9362271	0	0	TRUE	39,4%
4944	2	861,0812255	Non-Empty	834,9325252	299,9851394	0	0	TRUE	282,5624097	0	297,865546	284,3977683	0	0	TRUE	33,0%	219,8505257	0	0	TRUE	25,5%
4944	3	861,0812255	Non-Empty	737,4891222	252,7209779	0	0	TRUE	285,4774897	0	263,1022189	290,1394121	0	0	TRUE	33,7%	302,2944728	0	0	TRUE	35,1%
4945	1	837,9391988	Non-Empty	648,737772	228,7852175	0	0	TRUE	224,2197724	0	260,8209445	242,5368256	0	0	TRUE	28,9%	289,6579946	0	0	TRUE	34,6%
4945	2	837,9391988	Non-Empty	778,7435807	365,2050158	0	0	TRUE	366,5895602	0	313,3130554	291,3491246	0	0	TRUE	34,8%	237,9333527	0	0	TRUE	28,4%
4945	3	837,9391988	Non-Empty	655,6911743	243,9489653	0	0	TRUE	247,1298662	0	263,8051989	304,0532486	0	0	TRUE	36,3%	310,3478514	0	0	TRUE	37,0%
4946	1	1719,204141	Empty	867,2195434	590,6929163	206,0785576	0,119868579	FALSE	590,5221698	0,025398476	590,5221698	556,1161595	232,4075244	0,135183204	FALSE	32,3%	559,740883	228,7828009	0,133074831	FALSE	32,6%
4946	2	1719,204141	Empty	856,6961617	572,4339841	206,0785576	0,119868579	FALSE	564,5276871	0,025398476	564,5276871	549,3678998	232,4075244	0,135183204	FALSE	32,0%	539,7501372	228,7828009	0,133074831	FALSE	31,4%
4946	3	1719,204141	Empty	824,3560774	556,0772403	206,0785576	0,119868579	FALSE	564,1542838	0,025398476	564,										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4961	1	1275,564957	Empty	597,5857733	395,0666062	168,6469529	0,132213536	FALSE	385,1166304	0,081236468	385,1166304	399,4061599	194,5614906	0,152529661	FALSE	31,3%	374,3505851	204,794117	0,160551696	FALSE	29,3%
4961	2	1275,564957	Empty	628,3408193	445,8763322	168,6469529	0,132213536	FALSE	455,9810364	0,081236468	455,9810364	419,9617945	194,5614906	0,152529661	FALSE	32,9%	512,99895	204,794117	0,160551696	FALSE	40,2%
4961	3	1275,564957	Empty	627,345938	434,6220184	168,6469529	0,132213536	FALSE	434,46729	0,081236468	434,46729	456,1970024	194,5614906	0,152529661	FALSE	35,8%	388,2154216	204,794117	0,160551696	FALSE	30,4%
4962	1	674,9879312	Empty	361,6711755	210,4778581	19,36005468	0,028682075	FALSE	221,3865504	0,086913962	221,3865504	202,0439231	27,79398971	0,041177017	FALSE	29,9%	242,6922899	29,54788625	0,043775429	FALSE	36,0%
4962	2	674,9879312	Empty	415,3799614	235,7809806	19,36005468	0,028682075	FALSE	218,2840094	0,086913962	218,2840094	232,04779	27,79398971	0,041177017	FALSE	34,4%	197,1874855	29,54788625	0,043775429	FALSE	29,2%
4962	3	674,9879312	Empty	384,2428233	228,7290925	19,36005468	0,028682075	FALSE	235,3173714	0,086913962	235,3173714	240,8962181	27,79398971	0,041177017	FALSE	35,7%	235,1081558	29,54788625	0,043775429	FALSE	34,8%
4963	1	601,971333	Non-Empty	511,0024173	204,5318285	0	0	TRUE	183,6156013	0	210,8882134	217,073178	0	0	TRUE	36,1%	215,9244999	0	0	TRUE	35,9%
4963	2	601,971333	Non-Empty	385,5632426	137,4944336	0	0	TRUE	174,9799862	0	159,1200758	163,7867759	0	0	TRUE	27,2%	189,7518332	0	0	TRUE	31,5%
4963	3	601,971333	Non-Empty	562,0687577	259,9450708	0	0	TRUE	243,3757455	0	231,9630438	221,111379	0	0	TRUE	36,7%	196,2949999	0	0	TRUE	32,6%
4964	1	818,0239456	Non-Empty	659,5656431	225,588609	0	0	TRUE	237,7731407	0	250,1916658	246,06865	0	0	TRUE	30,1%	293,6496215	0	0	TRUE	35,9%
4964	2	818,0239456	Non-Empty	763,5385769	306,3948279	0	0	TRUE	295,4126447	0	289,6315029	284,8585411	0	0	TRUE	34,8%	293,6496215	0	0	TRUE	35,9%
4964	3	818,0239456	Non-Empty	733,4044229	286,0405087	0	0	TRUE	284,8381602	0	278,2007768	287,0967544	0	0	TRUE	35,1%	230,7247026	0	0	TRUE	28,2%
4965	1	1431,287048	Empty	779,4819315	511,5093832	178,2598306	0,124545129	FALSE	503,6423651	0,002524238	503,6423651	490,9907699	185,4613558	0,129576632	FALSE	34,3%	501,6882436	201,2730108	0,140623791	FALSE	35,1%
4965	2	1431,287048	Empty	705,5792011	450,9237409	178,2598306	0,124545129	FALSE	456,373811	0,002524238	456,373811	444,4399044	185,4613558	0,129576632	FALSE	31,1%	427,9105608	201,2730108	0,140623791	FALSE	29,9%
4965	3	1431,287048	Empty	726,5425061	468,853924	178,2598306	0,124545129	FALSE	471,270872	0,002524238	471,270872	495,8563738	185,4613558	0,129576632	FALSE	34,6%	501,6882436	201,2730108	0,140623791	FALSE	35,1%
4966	1	774,4515103	Non-Empty	733,6985167	277,3899517	0	0	TRUE	272,385859	0	266,972039	265,1482104	0	0	TRUE	34,2%	295,8578803	0	0	TRUE	38,2%
4966	2	774,4515103	Non-Empty	670,7699901	228,8096201	0	0	TRUE	238,1537224	0	244,0741366	242,4067357	0	0	TRUE	31,3%	191,437452	0	0	TRUE	24,7%
4966	3	774,4515103	Non-Empty	723,8964202	268,2519384	0	0	TRUE	263,9119289	0	263,4053347	266,8965641	0	0	TRUE	34,5%	287,156178	0	0	TRUE	37,1%
4967	1	881,8448068	Empty	461,1969377	277,7781377	68,71941765	0,077926884	FALSE	272,8727405	0,070570433	272,8727405	295,3693063	103,209862	0,117038578	FALSE	33,5%	251,9556591	102,7485382	0,116515443	FALSE	28,6%
4967	2	881,8448068	Empty	441,0874996	265,214906	68,71941765	0,077926884	FALSE	267,8557152	0,070570433	267,8557152	282,4904029	103,209862	0,117038578	FALSE	32,0%	325,4427263	102,7485382	0,116515443	FALSE	36,9%
4967	3	881,8448068	Empty	515,100578	338,8517632	68,71941765	0,077926884	FALSE	341,1163511	0,070570433	341,1163511	303,9850976	103,209862	0,117038578	FALSE	34,5%	304,4464214	102,7485382	0,116515443	FALSE	34,5%
4968	1	677,9968607	Non-Empty	520,1533359	240,000086	0	0	TRUE	251,3171093	0	227,1712085	212,9055518	0	0	TRUE	31,4%	206,3468706	0	0	TRUE	30,4%
4968	2	677,9968607	Non-Empty	523,675888	219,6651818	0	0	TRUE	207,1247487	0	228,7096441	214,3473784	0	0	TRUE	31,6%	228,4554639	0	0	TRUE	33,7%
4968	3	677,9968607	Non-Empty	508,5784563	218,3315929	0	0	TRUE	219,5550027	0	222,1160081	250,7439305	0	0	TRUE	37,0%	243,1945261	0	0	TRUE	35,9%
4969	1	855,1843192	Non-Empty	813,3216395	320,155229	0	0	TRUE	308,7911786	0	302,3309193	291,0264917	0	0	TRUE	34,0%	264,4899956	0	0	TRUE	30,9%
4969	2	855,1843192	Non-Empty	751,0263491	265,8614864	0	0	TRUE	262,4989838	0	279,1742842	268,7357042	0	0	TRUE	31,4%	299,7553284	0	0	TRUE	35,1%
4969	3	855,1843192	Non-Empty	736,2434106	269,1676037	0	0	TRUE	283,8941568	0	273,6791157	295,4221233	0	0	TRUE	34,5%	290,9389952	0	0	TRUE	34,0%
4970	1	534,6008534	Non-Empty	472,4363085	167,6115533	0	0	TRUE	159,8920605	0	177,1245572	180,3814295	0	0	TRUE	33,7%	181,8745171	0	0	TRUE	34,0%
4970	2	534,6008534	Non-Empty	453,8944554	157,689297	0	0	TRUE	158,5894011	0	170,1728953	173,3019441	0	0	TRUE	32,4%	181,8745171	0	0	TRUE	34,0%
4970	3	534,6008534	Non-Empty	499,585877	290,3000332	0	0	TRUE	216,1193918	0	187,3034009	180,9174798	0	0	TRUE	33,8%	170,8518191	0	0	TRUE	32,0%
4971	1	1012,511322	Empty	483,1079764	358,0151174	156,7119468	0,154775501	FALSE	359,3122159	0,077814254	359,3122159	336,258781	171,7592901	0,169636908	FALSE	33,2%	345,1743142	162,8437569	0,160831542	FALSE	34,1%
4971	2	1012,511322	Empty	452,9860144	317,2928669	156,7119468	0,154775501	FALSE	307,9896768	0,077814254	307,9896768	315,292921	171,7592901	0,169636908	FALSE	31,1%	310,6568828	162,8437569	0,160831542	FALSE	30,7%
4971	3	1012,511322	Empty	455,5872031	337,2033374	156,7119468	0,154775501	FALSE	345,209429	0,077814254	345,209429	360,9596197	171,7592901	0,169636908	FALSE	35,6%	356,6801247	162,8437569	0,160831542	FALSE	35,2%
4972	1	1510,949713	Empty	740,1836433	483,4276956	216,9016014	0,143553157	FALSE	471,6302123	0,105832511	471,6302123	488,9961037	222,1099662	0,147000237	FALSE	32,4%	597,3522121	365,8873594	0,242157205	FALSE	39,5%
4972	2	1510,949713	Empty	770,8012668	509,5834225	216,9016014	0,143553157	FALSE	493,3240427	0,105832511	493,3240427	509,2233793	222,1099662	0,147000237	FALSE	33,7%	544,644664	365,8873594	0,242157205	FALSE	36,0%
4972	3	1510,949713	Empty	734,8401963	517,9385949	216,9016014	0,143553157	FALSE	545,995458	0,105832511	545,995458	512,7302301	222,1099662	0,147000237	FALSE	33,9%	368,9528369	365,8873594	0,242157205	FALSE	24,4%
4973	1	1253,771731	Empty	634,9757173	419,0399121	171,7304309	0,13697105	FALSE	403,2739213	0,107950622	403,2739213	410,0160643	208,0128619	0,165909676	FALSE	32,7%	450,7943302	184,7220467	0,147333077	FALSE	36,0%
4973	2	1253,771731	Empty	603,9118517	426,2399583	171,7304309	0,13697105	FALSE	448,7378793	0,107950622	448,7378793	389,9575273	208,0128619	0,165909676	FALSE	31,1%	436,7070073	184,7220467	0,147333077	FALSE	34,8%
4973	3	1253,771731	Empty	615,3936049	408,4918603	171,7304309	0,13697105	FALSE	401,7599301	0,107950622	401,7599301	453,7981391	208,0128619	0,165909676	FALSE	36,2%	366,2703932	184,7220467	0,147333077	FALSE	29,2%
4974	1	820,8794488	Non-Empty	739,7908917	267,2474535	0	0	TRUE	252,7608354	0	276,6584654	264,1356788	0	0	TRUE	32,2%	209,9924171	0	0	TRUE	25,6%
4974	2	820,8794488	Non-Empty	772,8407881	301,6632019	0	0	TRUE	288,5424358	0	289,0180845	275,9358468	0	0	TRUE	33,6%	267,2630764	0	0	TRUE	32,6%
4974	3	820,8794488	Non-Empty	682,4182293	251,9687934	0	0	TRUE	279,5761776	0	255,2028988	280,8079232	0	0	TRUE	34,2%	343,6239553	0	0	TRUE	41,9%
4975	1	911,2321721	Non-Empty	763,203189	295,3398615	0	0	TRUE	309,5725601	0	294,9944118	297,2278866	0	0	TRUE	32,6%	274,3494712	0	0	TRUE	30,1%
4975	2	911,2321721	Non-Empty	758,8836544	267,0975981	0	0	TRUE	257,407568	0	293,324819	295,5456529	0	0	TRUE	32,4%	323,3404482	0	0	TRUE	35,5%
4975	3	911,2321721	Non-Empty	835,4334071	348,7947125	0	0	TRUE	344,2520439	0	322,9129413	318,4586325	0	0	TRUE	34,9%	313,5422528	0	0	TRUE	34,4%
4976	1	1226,30939	Empty	582,1582945	380,7651717	155,4835006	0,126789782	FALSE	381,0049081	0,048767828	381,0049081	399,2808275	148,1403271	0,120801756	FALSE	32,6%	408,7697965	233,8296159	0,190677506	FALSE	33,3%
4976	2	1226,30939	Empty	565,7298094	380,6699642	155,4835006	0,126789782	FALSE	397,6202874	0,048767828	397,6202874	388,0131377	148,1403271	0,120801756	FALSE	31,6%	465,1518374	233,8296159	0,190677506	FALSE	37,9%
4976	3	1226,30939	Empty	684,4517909	465,0629083	155,4835006	0,126789782	FALSE	447,684194	0,048767828	447,684194	439,0154243	148,1403271	0,120801756	FALSE	35,8%	352,3877556	233,8296159	0,190677506	FALSE	28,7%
4977	1	676,2070007	Non-Empty	613,9624351	272,6769057	0	0	TRUE	265,8607667	0	247,1790										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
4992	1	782,2413566	Non-Empty	602,950483	236,3277769	0	0	TRUE	249,0840165	0	245,6041239	234,0255468	0	0	TRUE	29,9%	330,2796839	0	0	TRUE	42,2%
4992	2	782,2413566	Non-Empty	681,5255566	293,646182	0	0	TRUE	285,1457531	0	277,6106694	264,5231997	0	0	TRUE	33,8%	234,672407	0	0	TRUE	30,0%
4992	3	782,2413566	Non-Empty	635,9021541	252,2673977	0	0	TRUE	248,011587	0	259,0265633	283,6926102	0	0	TRUE	36,3%	217,2892657	0	0	TRUE	27,8%
4993	1	1165,989183	Empty	610,0962842	384,9150489	151,3948168	0,129842385	FALSE	360,9807514	0,213626179	360,9807514	392,7844532	185,7709446	0,159324758	FALSE	33,7%	400,0943275	121,4518879	0,104162105	FALSE	34,3%
4993	2	1165,989183	Empty	521,5462154	370,1513986	151,3948168	0,129842385	FALSE	420,0035195	0,213626179	420,0035195	335,7752708	185,7709446	0,159324758	FALSE	28,8%	400,0943275	121,4518879	0,104162105	FALSE	34,3%
4993	3	1165,989183	Empty	638,0874967	410,9227354	151,3948168	0,129842385	FALSE	385,004912	0,213626179	385,004912	437,429459	185,7709446	0,159324758	FALSE	37,5%	365,800528	121,4518879	0,104162105	FALSE	31,4%
4994	1	775,9783788	Non-Empty	696,1128133	256,8244545	0	0	TRUE	269,772009	0	253,2808216	247,1046661	0	0	TRUE	31,8%	224,1715316	0	0	TRUE	28,9%
4994	2	775,9783788	Non-Empty	719,3945659	265,6930008	0	0	TRUE	264,2273489	0	261,7518931	255,3691738	0	0	TRUE	32,9%	267,2814416	0	0	TRUE	34,4%
4994	3	775,9783788	Non-Empty	717,1787393	253,4609235	0	0	TRUE	241,9790208	0	260,9456641	273,5045388	0	0	TRUE	35,2%	284,5254055	0	0	TRUE	36,7%
4995	1	982,7458208	Empty	524,5112412	360,8179381	111,0096518	0,112958661	FALSE	363,3983727	0,084280288	363,3983727	316,9060257	141,753457	0,144242238	FALSE	32,2%	401,5520558	178,264932	0,18139475	FALSE	40,9%
4995	2	982,7458208	Empty	518,4130183	333,8103042	111,0096518	0,112958661	FALSE	315,4813279	0,084280288	315,4813279	313,2215221	141,753457	0,144242238	FALSE	31,9%	232,477506	178,264932	0,18139475	FALSE	23,7%
4995	3	982,7458208	Empty	438,6427745	288,1175785	111,0096518	0,112958661	FALSE	303,8661202	0,084280288	303,8661202	352,618273	141,753457	0,144242238	FALSE	35,9%	348,716259	178,264932	0,18139475	FALSE	35,5%
4996	1	959,0525986	Non-Empty	887,5081547	335,4940872	0	0	TRUE	304,8386439	0	337,345883	326,0005055	0	0	TRUE	34,0%	312,734543	0	0	TRUE	32,6%
4996	2	959,0525986	Non-Empty	817,212635	301,0494847	0	0	TRUE	306,2449586	0	310,6262365	300,1794752	0	0	TRUE	31,3%	271,0366039	0	0	TRUE	28,3%
4996	3	959,0525986	Non-Empty	818,4076814	322,5090267	0	0	TRUE	347,9689961	0	311,0804791	332,8726179	0	0	TRUE	34,7%	375,2814516	0	0	TRUE	39,1%
4997	1	782,4267355	Non-Empty	653,1915263	226,4695919	0	0	TRUE	241,1042446	0	242,6182594	235,5985362	0	0	TRUE	30,1%	295,5834334	0	0	TRUE	37,8%
4997	2	782,4267355	Non-Empty	748,0754138	303,5485252	0	0	TRUE	300,3782237	0	277,8614656	269,8220436	0	0	TRUE	34,5%	295,5834334	0	0	TRUE	37,8%
4997	3	782,4267355	Non-Empty	705,2295568	252,4086184	0	0	TRUE	240,9442672	0	261,9470104	277,0061557	0	0	TRUE	35,4%	191,2598687	0	0	TRUE	24,4%
4998	1	590,8649225	Non-Empty	543,4473746	281,0077116	0	0	TRUE	280,2044188	0	233,3987873	204,878286	0	0	TRUE	34,7%	213,1986834	0	0	TRUE	36,1%
4998	2	590,8649225	Non-Empty	440,6456456	168,8689202	0	0	TRUE	158,7285649	0	189,2476882	166,1222941	0	0	TRUE	28,1%	201,0159015	0	0	TRUE	34,0%
4998	3	590,8649225	Non-Empty	391,6810127	140,9882907	0	0	TRUE	151,9319388	0	168,218447	219,8643424	0	0	TRUE	37,2%	176,6503377	0	0	TRUE	29,9%
4999	1	893,1308095	Non-Empty	778,6502643	289,3324173	0	0	TRUE	272,3024609	0	301,0554989	293,7887164	0	0	TRUE	32,9%	328,5078839	0	0	TRUE	36,8%
4999	2	893,1308095	Non-Empty	735,6520332	295,884348	0	0	TRUE	328,4045534	0	284,4307643	277,5652645	0	0	TRUE	31,1%	338,7737553	0	0	TRUE	37,9%
4999	3	893,1308095	Non-Empty	795,6921836	307,9140441	0	0	TRUE	292,4237951	0	307,6445463	321,7768286	0	0	TRUE	36,0%	225,8491702	0	0	TRUE	25,3%
5000	1	1021,716222	Empty	549,8123716	368,8737557	134,5586657	0,131698668	FALSE	365,9407227	0,018929225	365,9407227	345,7016249	150,7673615	0,147562854	FALSE	33,8%	439,575584	183,2853398	0,179389674	FALSE	43,0%
5000	2	1021,716222	Empty	509,9690569	330,8661051	134,5586657	0,131698668	FALSE	329,7687362	0,018929225	329,7687362	320,6496265	150,7673615	0,147562854	FALSE	31,4%	308,8909509	183,2853398	0,179389674	FALSE	30,2%
5000	3	1021,716222	Empty	495,9515424	321,9763615	134,5586657	0,131698668	FALSE	326,0067635	0,018929225	326,0067635	355,364971	150,7673615	0,147562854	FALSE	34,8%	273,2496874	183,2853398	0,179389674	FALSE	26,7%
5001	1	944,5691435	Empty	526,5356982	347,6006495	87,08635419	0,092196908	FALSE	350,6691587	0,068150588	350,6691587	312,0494919	122,6375117	0,12983434	FALSE	33,0%	275,9415475	158,7454561	0,168061234	FALSE	29,2%
5001	2	944,5691435	Empty	490,0828782	309,3125555	87,08635419	0,092196908	FALSE	310,5457906	0,068150588	310,5457906	290,445859	122,6375117	0,12983434	FALSE	30,7%	403,2991849	158,7454561	0,168061234	FALSE	42,7%
5001	3	944,5691435	Empty	473,9612409	287,6559385	87,08635419	0,092196908	FALSE	283,3541941	0,068150588	283,3541941	342,0737925	122,6375117	0,12983434	FALSE	36,2%	265,3284111	158,7454561	0,168061234	FALSE	28,1%
5002	1	821,2213866	Non-Empty	622,7111218	289,6156871	0	0	TRUE	281,0871152	0	284,9058055	283,5656548	0	0	TRUE	34,5%	276,2987843	0	0	TRUE	33,6%
5002	2	821,2213866	Non-Empty	554,1785793	225,7030201	0	0	TRUE	221,7943236	0	253,550465	252,3578048	0	0	TRUE	30,7%	260,9488518	0	0	TRUE	31,8%
5002	3	821,2213866	Non-Empty	618,0322735	305,9026794	0	0	TRUE	318,3399479	0	282,7651162	285,2979271	0	0	TRUE	34,7%	283,9737505	0	0	TRUE	34,6%
5003	1	539,7208425	Non-Empty	487,7127094	198,1001964	0	0	TRUE	192,8012231	0	189,0112721	179,7100403	0	0	TRUE	33,3%	206,7015993	0	0	TRUE	38,3%
5003	2	539,7208425	Non-Empty	466,3987005	171,9136844	0	0	TRUE	161,742208	0	180,7511061	171,8563565	0	0	TRUE	31,8%	160,7679105	0	0	TRUE	29,8%
5003	3	539,7208425	Non-Empty	438,5500519	169,7069618	0	0	TRUE	185,1774115	0	169,9584644	188,1544457	0	0	TRUE	34,9%	172,2513327	0	0	TRUE	31,9%
5004	1	673,7339015	Non-Empty	559,8978629	241,0182846	0	0	TRUE	236,6520759	0	233,2456771	214,7767582	0	0	TRUE	31,9%	224,5779672	0	0	TRUE	33,3%
5004	2	673,7339015	Non-Empty	548,1327025	238,3375599	0	0	TRUE	243,0557869	0	228,3444746	210,263644	0	0	TRUE	31,2%	172,1764415	0	0	TRUE	25,6%
5004	3	673,7339015	Non-Empty	509,2434448	194,378057	0	0	TRUE	194,0260388	0	212,1437498	248,6934993	0	0	TRUE	36,9%	276,9794928	0	0	TRUE	41,1%
5005	1	543,2522172	Non-Empty	450,5617369	159,7033432	0	0	TRUE	151,951998	0	175,7671582	182,7074695	0	0	TRUE	33,6%	141,9863749	0	0	TRUE	26,1%
5005	2	543,2522172	Non-Empty	435,9037413	152,3614691	0	0	TRUE	151,9262455	0	170,0489757	176,7634999	0	0	TRUE	32,5%	222,2395434	0	0	TRUE	40,9%
5005	3	543,2522172	Non-Empty	506,1078847	231,1874049	0	0	TRUE	239,3739737	0	197,4360833	183,7812478	0	0	TRUE	33,8%	179,0262988	0	0	TRUE	33,0%
5006	1	936,9595306	Non-Empty	828,7116201	310,7787735	0	0	TRUE	306,7362135	0	313,2654443	305,056046	0	0	TRUE	32,6%	421,105407	0	0	TRUE	44,9%
5006	2	936,9595306	Non-Empty	783,6736436	304,2919171	0	0	TRUE	338,8004773	0	296,2404125	288,4771702	0	0	TRUE	30,8%	252,6632442	0	0	TRUE	27,0%
5006	3	936,9595306	Non-Empty	866,2451266	321,8888399	0	0	TRUE	291,4228398	0	327,4536738	343,4263144	0	0	TRUE	36,7%	263,1908794	0	0	TRUE	28,1%
5007	1	1091,392601	Empty	503,0558774	327,882481	121,0592244	0,110921793	FALSE	364,7871588	0,141963081	364,7871588	313,3577072	135,5839982	0,124230271	FALSE	28,7%	359,9273472	155,904484	0,14284913	FALSE	33,0%
5007	2	1091,392601	Empty	603,8117736	378,1626074	121,0592244	0,110921793	FALSE	364,5915154	0,141963081	364,5915154	376,1193965	135,5839982	0,124230271	FALSE	34,5%	441,2012643	155,904484	0,14284913	FALSE	40,4%
5007	3	1091,392601	Empty	620,7591728	385,3475128	121,0592244	0,110921793	FALSE	362,0139271	0,141963081	362,0139271	401,9154976	135,5839982	0,124230271	FALSE	36,8%	290,2639897	155,904484	0,14284913	FALSE	26,6%
5008	1	1197,185249	Empty	524,3690508	351,7899783	157,185489	0,131295878	FALSE	354,8265249	0,047275275	354,8265249	345,6159341	161,7279978	0,135090202	FALSE	28,9%	469,000407	265,0020253	0,221354235	FALSE	39,2%
5008	2	1197,185249	Empty	643,5499537	453,8478913	157,185489	0,131295878	FALSE	439,7614482	0,047275275	439,7614482	424,1690428	161,7279978	0,135090202	FALSE	35,4%	320,8950153	265,0020253	0,221354235	FALSE	26,8%
5008	3	1197,185249	Empty	556,1131025	391,5473799	157,185489	0,131295878	FALSE	402,5972764	0,047275275	402,5972764										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5023	1	1621,72726	Empty	786,5805984	523,788675	220,5149938	0,135975388	FALSE	515,2118203	0,130321049	515,2118203	520,1124058	218,0371696	0,134447496	FALSE	32,1%	610,1548107	262,9434451	0,162137896	FALSE	37,6%
5023	2	1621,72726	Empty	821,0338451	541,6955563	220,5149938	0,135975388	FALSE	516,5723361	0,130321049	516,5723361	542,8940013	218,0371696	0,134447496	FALSE	33,5%	497,7578719	262,9434451	0,162137896	FALSE	30,7%
5023	3	1621,72726	Empty	776,7580226	556,2430289	220,5149938	0,135975388	FALSE	589,9431038	0,130321049	589,9431038	558,720853	218,0371696	0,134447496	FALSE	34,5%	513,8145775	262,9434451	0,162137896	FALSE	31,7%
5024	1	862,804655	Non-Empty	815,1107627	297,876665	0	0	TRUE	279,9402917	0	297,9124867	284,9476395	0	0	TRUE	33,0%	233,6762607	0	0	TRUE	27,1%
5024	2	862,804655	Non-Empty	803,4725702	304,5058666	0	0	TRUE	304,8368873	0	293,6588772	280,8791428	0	0	TRUE	32,6%	305,5766486	0	0	TRUE	35,4%
5024	3	862,804655	Non-Empty	742,1144954	260,4221235	0	0	TRUE	278,027476	0	271,2332911	296,9778727	0	0	TRUE	34,4%	323,5517456	0	0	TRUE	37,5%
5025	1	1291,635535	Empty	670,0786738	426,9583932	147,2471444	0,114000537	FALSE	413,8204771	0,054790493	413,8204771	424,3535557	165,1266853	0,127843096	FALSE	32,9%	444,4337326	163,2028579	0,126353645	FALSE	34,4%
5025	2	1291,635535	Empty	654,8869423	432,6123379	147,2471444	0,114000537	FALSE	440,320098	0,054790493	440,320098	414,7327969	165,1266853	0,127843096	FALSE	32,1%	416,6566243	163,2028579	0,126353645	FALSE	32,3%
5025	3	1291,635535	Empty	656,6170128	432,0648043	147,2471444	0,114000537	FALSE	437,4949602	0,054790493	437,4949602	452,5491828	165,1266853	0,127843096	FALSE	35,0%	430,5451784	163,2028579	0,126353645	FALSE	33,3%
5026	1	733,78661	Non-Empty	651,9602172	227,298674	0	0	TRUE	233,828711	0	235,9715882	229,1566714	0	0	TRUE	31,2%	269,8985232	0	0	TRUE	36,8%
5026	2	733,78661	Non-Empty	710,8815245	271,3958623	0	0	TRUE	263,1017801	0	257,2976663	249,8668471	0	0	TRUE	34,1%	219,2925501	0	0	TRUE	29,9%
5026	3	733,78661	Non-Empty	664,5196084	235,0920737	0	0	TRUE	236,856119	0	240,5173556	254,7630916	0	0	TRUE	34,7%	244,5955367	0	0	TRUE	33,3%
5027	1	782,5314085	Non-Empty	661,1931284	235,9406596	0	0	TRUE	240,7114853	0	249,6400982	253,3526712	0	0	TRUE	32,4%	318,4720848	0	0	TRUE	40,7%
5027	2	782,5314085	Non-Empty	679,1388973	239,9512376	0	0	TRUE	230,7868725	0	256,4157033	260,229041	0	0	TRUE	33,3%	272,9760727	0	0	TRUE	34,9%
5027	3	782,5314085	Non-Empty	732,2692663	306,6395113	0	0	TRUE	311,0330508	0	276,475607	268,9496962	0	0	TRUE	34,4%	191,0832509	0	0	TRUE	24,4%
5028	1	1165,016145	Empty	614,5082603	412,7815863	134,6151275	0,115547864	FALSE	415,1394172	0,083217793	415,1394172	384,4770075	155,7969652	0,133729447	FALSE	33,0%	341,2673556	194,629876	0,167061956	FALSE	29,3%
5028	2	1165,016145	Empty	564,7606287	374,5334369	134,6151275	0,115547864	FALSE	388,39075	0,083217793	388,39075	353,3515991	155,7969652	0,133729447	FALSE	30,3%	364,8030353	194,629876	0,167061956	FALSE	31,3%
5028	3	1165,016145	Empty	598,000771	377,7011219	134,6151275	0,115547864	FALSE	361,4859777	0,083217793	361,4859777	427,1875384	155,7969652	0,133729447	FALSE	36,7%	458,9457541	194,629876	0,167061956	FALSE	39,4%
5029	1	538,471223	Non-Empty	490,1047008	189,5532463	0	0	TRUE	188,0413925	0	183,8319248	173,199417	0	0	TRUE	32,2%	206,6226786	0	0	TRUE	38,4%
5029	2	538,471223	Non-Empty	496,5353515	195,8234321	0	0	TRUE	194,1511135	0	186,2439786	175,4719619	0	0	TRUE	32,6%	162,7936256	0	0	TRUE	30,2%
5029	3	538,471223	Non-Empty	448,9499731	153,0945446	0	0	TRUE	156,278717	0	168,3953196	189,7998441	0	0	TRUE	35,2%	169,0549189	0	0	TRUE	31,4%
5030	1	1716,969119	Empty	893,8842721	569,0157539	200,0085027	0,116489284	FALSE	574,9084307	0,018831544	574,9084307	562,9263147	206,0979419	0,120035905	FALSE	32,8%	424,6267713	344,3974853	0,200584554	FALSE	24,7%
5030	2	1716,969119	Empty	888,4059231	560,4893014	200,0085027	0,116489284	FALSE	563,3338746	0,018831544	563,3338746	559,4763079	206,0979419	0,120035905	FALSE	32,6%	627,7091402	344,3974853	0,200584554	FALSE	36,6%
5030	3	1716,969119	Empty	926,9625086	587,4640635	200,0085027	0,116489284	FALSE	578,7268134	0,018831544	578,7268134	594,5664962	206,0979419	0,120035905	FALSE	34,6%	664,6332073	344,3974853	0,200584554	FALSE	38,7%
5031	1	894,3197807	Non-Empty	647,559905	249,6985637	0	0	TRUE	278,5432056	0	266,335097	269,2931451	0	0	TRUE	30,1%	326,7706891	0	0	TRUE	36,5%
5031	2	894,3197807	Non-Empty	741,7484935	304,0125787	0	0	TRUE	292,9826471	0	305,0721301	308,462249	0	0	TRUE	34,5%	266,5760885	0	0	TRUE	29,8%
5031	3	894,3197807	Non-Empty	785,1293317	340,6086383	0	0	TRUE	322,7939279	0	322,914141	316,5643866	0	0	TRUE	35,4%	300,9730031	0	0	TRUE	33,7%
5032	1	1371,859394	Empty	727,2825049	466,8038217	161,7263019	0,117888395	FALSE	454,2112403	0,050321983	454,2112403	452,3616355	166,2399993	0,121178599	FALSE	33,0%	467,0159639	214,5571788	0,156398812	FALSE	34,0%
5032	2	1371,859394	Empty	711,2054708	462,0356386	161,7263019	0,117888395	FALSE	460,7519082	0,050321983	460,7519082	442,361899	166,2399993	0,121178599	FALSE	32,2%	394,0447195	214,5571788	0,156398812	FALSE	28,7%
5032	3	1371,859394	Empty	677,0297237	443,0199336	161,7263019	0,117888395	FALSE	456,8962454	0,050321983	456,8962454	477,1358594	166,2399993	0,121178599	FALSE	34,8%	510,7987105	214,5571788	0,156398812	FALSE	37,2%
5033	1	1582,744156	Empty	810,1395664	518,1436614	193,3889473	0,122185855	FALSE	503,7828411	0,059548571	503,7828411	508,5096568	230,3384592	0,145531075	FALSE	32,1%	567,7234472	286,0342979	0,180720489	FALSE	35,9%
5033	2	1582,744156	Empty	828,7591741	557,9184507	193,3889473	0,122185855	FALSE	564,7128119	0,059548571	564,7128119	520,196841	230,3384592	0,145531075	FALSE	32,9%	464,5010022	286,0342979	0,180720489	FALSE	29,3%
5033	3	1582,744156	Empty	776,7506693	506,6820437	193,3889473	0,122185855	FALSE	514,2485028	0,059548571	514,2485028	554,0376581	230,3384592	0,145531075	FALSE	35,0%	550,5197064	286,0342979	0,180720489	FALSE	34,8%
5034	1	893,0451421	Non-Empty	791,4725301	297,8119189	0	0	TRUE	299,9661043	0	296,9242139	285,1260896	0	0	TRUE	31,9%	289,9497215	0	0	TRUE	32,5%
5034	2	893,0451421	Non-Empty	809,1809348	318,1508141	0	0	TRUE	322,9354901	0	303,5657554	291,5055001	0	0	TRUE	32,6%	255,1557549	0	0	TRUE	28,6%
5034	3	893,0451421	Non-Empty	779,836067	277,0824091	0	0	TRUE	270,1435477	0	292,5569728	316,4135523	0	0	TRUE	35,4%	347,9396657	0	0	TRUE	39,0%
5035	1	1184,189037	Empty	654,7056484	391,4072004	92,86432517	0,078420187	FALSE	391,9978754	0,005371399	391,9978754	388,4796212	95,64825088	0,0807711	FALSE	32,8%	296,0472592	185,7690203	0,156874464	FALSE	25,0%
5035	2	1184,189037	Empty	648,3144094	387,4712074	92,86432517	0,078420187	FALSE	390,5171284	0,005371399	390,5171284	384,6872817	95,64825088	0,0807711	FALSE	32,5%	380,6321904	185,7690203	0,156874464	FALSE	32,1%
5035	3	1184,189037	Empty	672,836348	405,310629	92,86432517	0,078420187	FALSE	401,674033	0,005371399	401,674033	411,0221339	95,64825088	0,0807711	FALSE	34,7%	507,5095872	185,7690203	0,156874464	FALSE	42,9%
5036	1	1123,898977	Empty	533,8201834	349,1672714	134,3493207	0,119538609	FALSE	347,7712148	0,052902596	347,7712148	345,509558	160,90313	0,143165118	FALSE	30,7%	354,2725037	204,2872719	0,181766579	FALSE	31,5%
5036	2	1123,898977	Empty	576,6397226	399,7778684	134,3493207	0,119538609	FALSE	406,1728696	0,052902596	406,1728696	373,2240591	160,90313	0,143165118	FALSE	33,2%	329,8399173	204,2872719	0,181766579	FALSE	29,3%
5036	3	1123,898977	Empty	563,2096376	374,9538375	134,3493207	0,119538609	FALSE	369,9548929	0,052902596	369,9548929	405,1653603	160,90313	0,143165118	FALSE	36,0%	439,7865563	204,2872719	0,181766579	FALSE	39,1%
5037	1	1379,573446	Empty	650,1762184	432,726685	196,3066342	0,142295167	FALSE	420,8406437	0,087236735	420,8406437	456,1374307	231,2165107	0,167600001	FALSE	33,1%	450,1765981	327,1210828	0,237117555	FALSE	32,6%
5037	2	1379,573446	Empty	641,3766005	438,4648427	196,3066342	0,142295167	FALSE	441,1165769	0,087236735	441,1165769	449,9639735	231,2165107	0,167600001	FALSE	32,6%	551,8293783	327,1210828	0,237117555	FALSE	40,0%
5037	3	1379,573446	Empty	704,7111027	508,3819179	196,3066342	0,142295167	FALSE	517,6162251	0,087236735	517,6162251	473,4720414	231,2165107	0,167600001	FALSE	34,3%	377,5674693	327,1210828	0,237117555	FALSE	27,4%
5038	1	1051,003814	Empty	509,4262083	341,2457368	130,2174554	0,123898176	FALSE	352,9018842	0,048532104	352,9018842	315,2847016	156,1784905	0,148599357	FALSE	30,0%	378,850212	200,2061284	0,190490392	FALSE	36,0%
5038	2	1051,003814	Empty	579,4609238	387,2862576	130,2174554	0,123898176	FALSE	374,9482104	0,048532104	374,9482104	358,6293	156,1784905	0,148599357	FALSE	34,1%	293,30339	200,2061284	0,190490392	FALSE	27,9%
5038																					

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5054	1	686,0677578	Non-Empty	580,6703866	247,7356744	0	0	TRUE	247,0745986	0	236,7234613	217,646907	0	0	TRUE	31,7%	228,6892526	0	0	TRUE	33,3%
5054	2	686,0677578	Non-Empty	575,9073298	249,7989768	0	0	TRUE	255,9642603	0	234,7816931	215,8616178	0	0	TRUE	31,5%	235,8357917	0	0	TRUE	34,4%
5054	3	686,0677578	Non-Empty	526,3109504	188,5331065	0	0	TRUE	183,0288989	0	214,5626034	252,559233	0	0	TRUE	36,8%	221,5427134	0	0	TRUE	32,3%
5055	1	891,3172919	Non-Empty	772,6165285	277,8136318	0	0	TRUE	265,9392112	0	294,2804459	297,5396889	0	0	TRUE	33,4%	290,1963276	0	0	TRUE	32,6%
5055	2	891,3172919	Non-Empty	743,5540199	271,7953394	0	0	TRUE	282,9651352	0	283,210882	286,3475263	0	0	TRUE	32,1%	331,6529458	0	0	TRUE	37,2%
5055	3	891,3172919	Non-Empty	823,9321718	341,7083206	0	0	TRUE	342,4129455	0	313,825964	307,4300767	0	0	TRUE	34,5%	269,4680185	0	0	TRUE	30,2%
5056	1	969,0573987	Empty	504,5674073	340,3672605	120,6930923	0,124546897	FALSE	354,1820209	0,092812159	354,1820209	314,3352852	146,7250676	0,15141009	FALSE	32,4%	306,5385649	154,5217879	0,159455764	FALSE	31,6%
5056	2	969,0573987	Empty	499,4275968	312,8169288	120,6930923	0,124546897	FALSE	304,2211679	0,092812159	304,2211679	311,1332873	146,7250676	0,15141009	FALSE	32,1%	346,0919281	154,5217879	0,159455764	FALSE	35,7%
5056	3	969,0573987	Empty	499,107116	315,8732094	120,6930923	0,124546897	FALSE	310,6542099	0,092812159	310,6542099	343,5888262	146,7250676	0,15141009	FALSE	35,5%	316,4269057	154,5217879	0,159455764	FALSE	32,7%
5057	1	707,1499105	Non-Empty	588,868214	213,1695856	0	0	TRUE	199,5092847	0	232,2122662	229,340885	0	0	TRUE	32,4%	235,7166368	0	0	TRUE	33,3%
5057	2	707,1499105	Non-Empty	568,7593966	234,8307962	0	0	TRUE	262,9405235	0	224,2826243	221,5092957	0	0	TRUE	31,3%	225,4680874	0	0	TRUE	31,9%
5057	3	707,1499105	Non-Empty	635,6372827	259,1495287	0	0	TRUE	244,7001023	0	250,6550199	256,2997297	0	0	TRUE	36,2%	245,9651862	0	0	TRUE	34,8%
5058	1	776,2577086	Non-Empty	642,4438654	261,4975259	0	0	TRUE	286,7394526	0	249,9981833	238,3478589	0	0	TRUE	30,7%	303,7530164	0	0	TRUE	39,1%
5058	2	776,2577086	Non-Empty	684,6147954	266,8844341	0	0	TRUE	255,3423391	0	266,40842	253,9933517	0	0	TRUE	32,7%	185,6268434	0	0	TRUE	23,9%
5058	3	776,2577086	Non-Empty	667,7638468	247,8757487	0	0	TRUE	234,1759168	0	259,8511054	283,916498	0	0	TRUE	36,6%	286,8778488	0	0	TRUE	37,0%
5059	1	1389,410393	Empty	719,338713	490,7299463	215,378404	0,155014246	FALSE	486,6641762	0,00692039	486,6641762	473,5229067	224,928058	0,161887416	FALSE	34,1%	436,2102396	262,2407251	0,188742453	FALSE	31,4%
5059	2	1389,410393	Empty	666,9132633	445,9618823	215,378404	0,155014246	FALSE	449,5534978	0,00692039	449,5534978	439,0125281	224,928058	0,161887416	FALSE	31,6%	549,3017832	262,2407251	0,188742453	FALSE	39,5%
5059	3	1389,410393	Empty	676,7874061	452,7185642	215,378404	0,155014246	FALSE	453,1927188	0,00692039	453,1927188	476,874958	224,928058	0,161887416	FALSE	34,3%	403,89837	262,2407251	0,188742453	FALSE	29,1%
5060	1	1006,424115	Non-Empty	761,4013782	289,1398248	0	0	TRUE	287,5736224	0	316,8449936	300,2664797	0	0	TRUE	29,8%	326,1559631	0	0	TRUE	32,4%
5060	2	1006,424115	Non-Empty	877,1366873	415,5069267	0	0	TRUE	424,5725169	0	365,0063274	345,9078915	0	0	TRUE	34,4%	363,4309303	0	0	TRUE	36,1%
5060	3	1006,424115	Non-Empty	779,9721018	301,7773631	0	0	TRUE	294,2779754	0	324,5728476	360,2497435	0	0	TRUE	35,8%	316,8372213	0	0	TRUE	31,5%
5061	1	892,9537309	Non-Empty	728,2445018	293,5149131	0	0	TRUE	316,2811263	0	287,0472485	285,4232458	0	0	TRUE	32,0%	273,8391441	0	0	TRUE	30,7%
5061	2	892,9537309	Non-Empty	722,9609524	264,7210711	0	0	TRUE	263,9769917	0	284,9646673	283,3524471	0	0	TRUE	31,7%	297,6512436	0	0	TRUE	33,3%
5061	3	892,9537309	Non-Empty	814,2356825	334,7177467	0	0	TRUE	312,6956129	0	320,9418151	324,1780379	0	0	TRUE	36,3%	321,4633431	0	0	TRUE	36,0%
5062	1	1389,130459	Empty	697,0925276	466,4980756	148,6459047	0,10700644	FALSE	476,6603667	0,047682927	476,6603667	427,45131	187,6926703	0,135115222	FALSE	30,8%	482,540054	148,833161	0,107141241	FALSE	34,7%
5062	2	1389,130459	Empty	751,8735209	494,6919767	148,6459047	0,10700644	FALSE	478,2671756	0,047682927	478,2671756	461,0425571	187,6926703	0,135115222	FALSE	33,2%	467,9176282	148,833161	0,107141241	FALSE	33,7%
5062	3	1389,130459	Empty	662,4346396	427,9404064	148,6459047	0,10700644	FALSE	434,2029163	0,047682927	434,2029163	500,6365914	187,6926703	0,135115222	FALSE	36,0%	438,6727764	148,833161	0,107141241	FALSE	31,6%
5063	1	780,7488142	Non-Empty	677,0468929	291,6401741	0	0	TRUE	311,8716645	0	264,6109188	254,6200286	0	0	TRUE	32,6%	281,7134897	0	0	TRUE	36,1%
5063	2	780,7488142	Non-Empty	645,0799357	233,7637492	0	0	TRUE	228,0857719	0	252,1172407	242,5980732	0	0	TRUE	31,1%	217,3218349	0	0	TRUE	27,8%
5063	3	780,7488142	Non-Empty	675,5366133	255,344891	0	0	TRUE	240,7913779	0	264,0206547	283,5307123	0	0	TRUE	36,3%	281,7134897	0	0	TRUE	36,1%
5064	1	684,7259118	Non-Empty	599,206798	225,7567939	0	0	TRUE	205,9100719	0	235,0524297	224,2438635	0	0	TRUE	32,7%	249,6396553	0	0	TRUE	36,5%
5064	2	684,7259118	Non-Empty	582,1562467	237,1510799	0	0	TRUE	245,7491951	0	228,3639651	217,8629588	0	0	TRUE	31,8%	178,3140395	0	0	TRUE	26,0%
5064	3	684,7259118	Non-Empty	564,1727132	221,818038	0	0	TRUE	233,0666448	0	221,309517	242,6190895	0	0	TRUE	35,4%	256,7722169	0	0	TRUE	37,5%
5065	1	873,3542102	Empty	520,4485083	328,0443233	75,08807322	0,085976655	FALSE	310,0544006	0,092986478	310,0544006	302,8618011	100,5507066	0,115131645	FALSE	34,7%	276,7062844	88,04522435	0,100812732	FALSE	31,7%
5065	2	873,3542102	Empty	429,3147595	275,2914622	75,08807322	0,085976655	FALSE	295,6824273	0,092986478	295,6824273	249,8288288	100,5507066	0,115131645	FALSE	28,6%	319,9416413	88,04522435	0,100812732	FALSE	36,6%
5065	3	873,3542102	Empty	446,8337294	270,0184247	75,08807322	0,085976655	FALSE	267,6173823	0,092986478	267,6173823	320,6635802	100,5507066	0,115131645	FALSE	36,7%	276,7062844	88,04522435	0,100812732	FALSE	31,7%
5066	1	1356,717233	Empty	667,8620022	430,4099013	195,5505289	0,144135067	FALSE	430,4981411	0,071203066	430,4981411	432,798494	226,1125528	0,166661517	FALSE	31,9%	491,9963593	304,277278	0,224274647	FALSE	36,3%
5066	2	1356,717233	Empty	686,3703703	475,3546032	195,5505289	0,144135067	FALSE	489,8791769	0,071203066	489,8791769	444,7925793	226,1125528	0,166661517	FALSE	32,8%	551,6322816	304,277278	0,224274647	FALSE	40,7%
5066	3	1356,717233	Empty	679,1058831	444,9527287	195,5505289	0,144135067	FALSE	436,3399151	0,071203066	436,3399151	479,1261598	226,1125528	0,166661517	FALSE	35,3%	313,0885923	304,277278	0,224274647	FALSE	23,1%
5067	1	1242,621916	Empty	655,1015949	414,3733231	146,4787112	0,117878744	FALSE	408,5457399	0,082191064	408,5457399	406,0623656	133,9288672	0,107779257	FALSE	32,7%	385,2127939	172,9658017	0,139194231	FALSE	31,0%
5067	2	1242,621916	Empty	665,1806343	416,5487083	146,4787112	0,117878744	FALSE	402,8174707	0,082191064	402,8174707	412,3098219	133,9288672	0,107779257	FALSE	33,2%	472,196328	172,9658017	0,139194231	FALSE	38,0%
5067	3	1242,621916	Empty	627,0417521	411,6998844	146,4787112	0,117878744	FALSE	431,2587053	0,082191064	431,2587053	424,2497284	133,9288672	0,107779257	FALSE	34,1%	385,2127939	172,9658017	0,139194231	FALSE	31,0%
5068	1	912,4092707	Non-Empty	758,6881401	323,2710311	0	0	TRUE	334,6192031	0	307,2901501	281,4064197	0	0	TRUE	30,8%	342,1534765	0	0	TRUE	37,5%
5068	2	912,4092707	Non-Empty	800,7590541	346,4309939	0	0	TRUE	338,8682148	0	324,3300599	297,0110201	0	0	TRUE	32,6%	291,4640726	0	0	TRUE	31,9%
5068	3	912,4092707	Non-Empty	693,2579196	242,7072457	0	0	TRUE	238,9218528	0	280,7890606	333,991831	0	0	TRUE	36,6%	278,7917216	0	0	TRUE	30,6%
5069	1	1612,795633	Empty	889,6921813	566,722028	171,7123971	0,106468788	FALSE	558,1409108	0,054046816	558,1409108	537,331137	202,2109694	0,125379165	FALSE	33,3%	424,4199035	289,3490439	0,179408375	FALSE	26,3%
5069	2	1612,795633	Empty	830,2100463	531,9053706	171,7123971	0,106468788	FALSE	547,9897311	0,054046816	547,9897311	501,4067983	202,2109694	0,125379165	FALSE	31,1%	543,2574765	289,3490439	0,179408375	FALSE	33,7%
5069	3	1612,795633	Empty	836,0605143	514,1682348	171,7123971	0,106468788	FALSE	506,6649914	0,054046816	506,6649914	574,0576981	202,2109694	0,125379165	FALSE	35,6%	645,1182533	289,3490439	0,179408375	FALSE	40,0%
5070	1	971,3649264	Non-Empty	788,5515287	342,5798867	0	0	TRUE	395,2828271	0	310,4380375	294,6807464	0	0	TRUE	30,3%	297,3566101	0	0	TRUE	30,6%
5070	2	971,3649264	Non-Empty	846,1056867	319,715316	0	0	TRUE	291,9995												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5085	1	831,3774302	Non-Empty	770,4906127	276,5285575	0	0	TRUE	267,5765869	0	280,1637303	281,1663029	0	0	TRUE	33,8%	277,1258101	0	0	TRUE	33,3%
5085	2	831,3774302	Non-Empty	720,6154067	251,8602986	0	0	TRUE	268,1152751	0	262,0282416	262,9659159	0	0	TRUE	31,6%	260,3303064	0	0	TRUE	31,3%
5085	3	831,3774302	Non-Empty	795,3016645	302,9885741	0	0	TRUE	295,6855682	0	289,1854584	287,2452115	0	0	TRUE	34,6%	293,9213137	0	0	TRUE	35,4%
5086	1	743,3375646	Non-Empty	650,2177366	267,2089046	0	0	TRUE	255,9663035	0	260,0461854	253,9082075	0	0	TRUE	34,2%	209,6593131	0	0	TRUE	28,2%
5086	2	743,3375646	Non-Empty	578,0193407	212,6814343	0	0	TRUE	219,1097587	0	231,1713695	225,7149359	0	0	TRUE	30,4%	238,2492194	0	0	TRUE	32,1%
5086	3	743,3375646	Non-Empty	630,3991799	263,4472257	0	0	TRUE	268,2615024	0	252,1200096	263,7144212	0	0	TRUE	35,5%	295,4290321	0	0	TRUE	39,7%
5087	1	996,8847214	Empty	457,4985276	306,0068773	103,6911432	0,104015179	FALSE	303,762402	0,154665437	303,762402	290,9795511	155,8589111	0,156345972	FALSE	29,2%	317,1905932	104,6535398	0,104980584	FALSE	31,8%
5087	2	996,8847214	Empty	500,8484913	370,7188896	103,6911432	0,104015179	FALSE	389,8364628	0,154665437	389,8364628	318,5511217	155,8589111	0,156345972	FALSE	32,0%	396,4882415	104,6535398	0,104980584	FALSE	39,8%
5087	3	996,8847214	Empty	486,2792273	320,1589545	103,6911432	0,104015179	FALSE	303,2858566	0,154665437	303,2858566	387,3540485	155,8589111	0,156345972	FALSE	38,9%	283,2058868	104,6535398	0,104980584	FALSE	28,4%
5088	1	876,353248	Non-Empty	814,3986846	299,1314476	0	0	TRUE	300,4960164	0	294,1581968	290,5956419	0	0	TRUE	33,2%	316,4608951	0	0	TRUE	36,1%
5088	2	876,353248	Non-Empty	786,6892928	277,0619374	0	0	TRUE	284,0663879	0	284,1496532	280,708312	0	0	TRUE	32,0%	279,9461764	0	0	TRUE	31,9%
5088	3	876,353248	Non-Empty	825,1606883	300,159863	0	0	TRUE	291,7908436	0	298,045398	305,0492941	0	0	TRUE	34,8%	279,9461764	0	0	TRUE	31,9%
5089	1	1377,498013	Empty	663,671861	430,7726747	166,5059589	0,120875644	FALSE	422,5791169	0,1363371	422,5791169	422,7918802	220,8975583	0,160361435	FALSE	30,7%	495,2801845	197,0352084	0,14303847	FALSE	36,0%
5089	2	1377,498013	Empty	691,4105856	494,8544224	166,5059589	0,120875644	FALSE	523,0038878	0,1363371	523,0038878	440,462823	220,8975583	0,160361435	FALSE	32,0%	464,3251729	197,0352084	0,14303847	FALSE	33,7%
5089	3	1377,498013	Empty	696,5324522	451,8709159	166,5059589	0,120875644	FALSE	431,9150082	0,1363371	431,9150082	514,2433098	220,8975583	0,160361435	FALSE	37,3%	417,8926556	197,0352084	0,14303847	FALSE	30,3%
5090	1	859,7027245	Non-Empty	699,2835982	263,3028363	0	0	TRUE	285,9275382	0	268,9200957	265,4179339	0	0	TRUE	30,9%	304,7047631	0	0	TRUE	35,4%
5090	2	859,7027245	Non-Empty	734,2400947	281,3691075	0	0	TRUE	287,1035842	0	282,3631457	278,6859143	0	0	TRUE	32,4%	315,5870761	0	0	TRUE	36,7%
5090	3	859,7027245	Non-Empty	801,9954231	315,0307807	0	0	TRUE	286,6716021	0	308,4194831	315,5988763	0	0	TRUE	36,7%	239,4108853	0	0	TRUE	27,8%
5091	1	805,121114	Non-Empty	694,8588151	257,3176096	0	0	TRUE	255,0345173	0	265,0275803	247,2032876	0	0	TRUE	30,7%	287,5432643	0	0	TRUE	35,7%
5091	2	805,121114	Non-Empty	766,0207333	325,2318298	0	0	TRUE	319,7010396	0	292,1695991	272,519884	0	0	TRUE	33,8%	239,6193869	0	0	TRUE	29,8%
5091	3	805,121114	Non-Empty	650,0159314	227,5717006	0	0	TRUE	230,385583	0	247,9239606	285,3979684	0	0	TRUE	35,4%	277,9584888	0	0	TRUE	34,5%
5092	1	854,6087051	Non-Empty	592,5725104	298,2511185	0	0	TRUE	289,8578455	0	295,7367891	270,613808	0	0	TRUE	31,7%	257,2123287	0	0	TRUE	30,1%
5092	2	854,6087051	Non-Empty	601,2930126	317,5704582	0	0	TRUE	319,7760226	0	300,0889541	274,5962545	0	0	TRUE	32,1%	331,8868758	0	0	TRUE	38,8%
5092	3	854,6087051	Non-Empty	518,527539	238,7871285	0	0	TRUE	244,974837	0	258,782962	309,3986426	0	0	TRUE	36,2%	265,5095006	0	0	TRUE	31,1%
5093	1	717,3174893	Non-Empty	530,2802721	195,1401968	0	0	TRUE	221,8263379	0	210,9940804	204,1852647	0	0	TRUE	28,5%	230,8608011	0	0	TRUE	32,2%
5093	2	717,3174893	Non-Empty	652,4262241	269,0079598	0	0	TRUE	247,4159119	0	259,594932	251,2177584	0	0	TRUE	35,0%	230,8608011	0	0	TRUE	32,2%
5093	3	717,3174893	Non-Empty	620,0896424	253,1693327	0	0	TRUE	248,0752395	0	246,7284769	261,9144661	0	0	TRUE	36,5%	255,595887	0	0	TRUE	35,6%
5094	1	852,8576601	Non-Empty	716,5229276	298,3841425	0	0	TRUE	313,3443385	0	283,9443163	265,2451924	0	0	TRUE	31,1%	284,2858867	0	0	TRUE	33,3%
5094	2	852,8576601	Non-Empty	759,6068293	306,2804059	0	0	TRUE	286,0529637	0	301,0176416	281,1941556	0	0	TRUE	33,0%	274,8096905	0	0	TRUE	32,2%
5094	3	852,8576601	Non-Empty	676,0248466	248,1931116	0	0	TRUE	253,4603578	0	267,8957022	306,4183121	0	0	TRUE	35,9%	293,7620829	0	0	TRUE	34,4%
5095	1	957,8253962	Non-Empty	676,0831686	269,2798979	0	0	TRUE	280,1357204	0	292,9115456	290,433774	0	0	TRUE	30,3%	347,4464673	0	0	TRUE	36,3%
5095	2	957,8253962	Non-Empty	769,9092601	349,1944901	0	0	TRUE	346,1388133	0	333,5614934	330,7398593	0	0	TRUE	34,5%	253,5420167	0	0	TRUE	26,5%
5095	3	957,8253962	Non-Empty	764,8102472	339,3510083	0	0	TRUE	331,5508626	0	331,3523572	336,6517629	0	0	TRUE	35,1%	356,8369123	0	0	TRUE	37,3%
5096	1	757,3310255	Non-Empty	709,8664573	304,2215421	0	0	TRUE	283,4587777	0	281,1768958	271,9812938	0	0	TRUE	35,9%	241,7013911	0	0	TRUE	31,9%
5096	2	757,3310255	Non-Empty	556,2776626	195,4484282	0	0	TRUE	219,5013446	0	220,3406355	213,134621	0	0	TRUE	28,1%	273,9282433	0	0	TRUE	36,2%
5096	3	757,3310255	Non-Empty	645,8333581	257,6610553	0	0	TRUE	254,3709033	0	255,8134941	272,2151107	0	0	TRUE	35,9%	241,7013911	0	0	TRUE	31,9%
5097	1	1138,756238	Empty	535,0659995	352,3597155	152,7991652	0,134180749	FALSE	359,1082557	0,016556352	359,1082557	347,8182655	159,9866883	0,14049248	FALSE	30,5%	452,7585044	261,7845043	0,22988634	FALSE	39,8%
5097	2	1138,756238	Empty	599,8283512	407,1132273	152,7991652	0,134180749	FALSE	403,8529276	0,016556352	403,8529276	389,9168643	159,9866883	0,14049248	FALSE	34,2%	288,1190483	261,7845043	0,22988634	FALSE	25,3%
5097	3	1138,756238	Empty	572,2263602	379,2832956	152,7991652	0,134180749	FALSE	375,7950551	0,016556352	375,7950551	401,0211086	159,9866883	0,14049248	FALSE	35,2%	397,8786857	261,7845043	0,22988634	FALSE	34,9%
5098	1	716,383917	Non-Empty	668,4294851	242,1152197	0	0	TRUE	241,3943579	0	240,247216	237,0061824	0	0	TRUE	33,1%	251,7024573	0	0	TRUE	35,1%
5098	2	716,383917	Non-Empty	650,4424115	232,5921167	0	0	TRUE	240,3352255	0	233,6282942	230,6284751	0	0	TRUE	32,2%	232,3407298	0	0	TRUE	32,4%
5098	3	716,383917	Non-Empty	674,2922309	241,6765805	0	0	TRUE	234,6543336	0	242,3544067	248,7492594	0	0	TRUE	34,7%	232,3407298	0	0	TRUE	32,4%
5099	1	789,8814101	Non-Empty	695,0126931	260,0440253	0	0	TRUE	247,8809262	0	266,7143315	255,6653267	0	0	TRUE	32,4%	263,2938034	0	0	TRUE	33,3%
5099	2	789,8814101	Non-Empty	686,8437679	277,2015072	0	0	TRUE	290,3648152	0	263,5794687	252,6603299	0	0	TRUE	32,0%	252,7620512	0	0	TRUE	32,0%
5099	3	789,8814101	Non-Empty	676,4416552	252,6358776	0	0	TRUE	251,6356687	0	259,5876099	281,5557535	0	0	TRUE	35,6%	273,8255555	0	0	TRUE	34,7%
5100	1	1022,313309	Non-Empty	916,2259067	382,4428135	0	0	TRUE	395,8614971	0	351,6135682	339,875777	0	0	TRUE	33,2%	292,0895167	0	0	TRUE	28,6%
5100	2	1022,313309	Non-Empty	850,8226336	304,573559	0	0	TRUE	305,5262612	0	326,5142144	315,614306	0	0	TRUE	30,9%	411,5806827	0	0	TRUE	40,3%
5100	3	1022,313309	Non-Empty	896,8700987	335,296936	0	0	TRUE	320,9255502	0	344,185526	366,8232256	0	0	TRUE	35,9%	318,6431092	0	0	TRUE	31,2%
5101	1	687,77271	Non-Empty	620,7126741	252,4710087	0	0	TRUE	235,2025751	0	245,2525425	227,3478349	0	0	TRUE	33,1%	224,2737098	0	0	TRUE	32,6%
5101	2	687,77271	Non-Empty	588,8276248	238,3333749	0	0	TRUE	238,8123567	0	232,654299	215,6693285	0	0	TRUE	31,4%	216,7979195	0	0	TRUE	31,5%
5101	3	687,77271	Non-Empty	531,1521063	196,9683264	0	0	TRUE	213,7577783	0	209,8658686	244,7555467	0	0	TRUE	35,6%	246,7010808	0	0	TRUE	35,9%
5102	1	855,1354513	Non-Empty	801,1171454	277,4497004	0	0	TRUE	278,0090616	0	282,1728287	275,2805634	0	0	TRUE	32,2%	260,2586156	0	0	TRUE	30,4%
5102	2	855,1354513	Non-Empty	834,8482629	309,4172512	0	0	TRUE	308,2130458	0	294,0537439	286,8712791	0	0	TRUE	33,5%	269,5535662	0	0	TRUE	31,5%
5102	3	855,1354513	Non-Empty	791,8504617</																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5116	1	1179,816973	Empty	545,3426516	357,0258801	160,9576661	0,136425962	FALSE	370,4846836	0,02671008	370,4846836	364,5472343	153,4363119	0,130050945	FALSE	30,9%	335,3164028	182,6671434	0,154826679	FALSE	28,4%
5116	2	1179,816973	Empty	603,038895	397,4186903	160,9576661	0,136425962	FALSE	393,5740605	0,02671008	393,5740605	403,1156571	153,4363119	0,130050945	FALSE	34,2%	397,412033	182,6671434	0,154826679	FALSE	33,7%
5116	3	1179,816973	Empty	636,762151	425,3724024	160,9576661	0,136425962	FALSE	415,7582287	0,02671008	415,7582287	412,1540814	153,4363119	0,130050945	FALSE	34,9%	447,0885371	182,6671434	0,154826679	FALSE	37,9%
5117	1	878,5284171	Non-Empty	716,4734701	299,9324609	0	0	TRUE	297,3174827	0	296,8638263	269,2526163	0	0	TRUE	30,6%	271,150746	0	0	TRUE	30,9%
5117	2	878,5284171	Non-Empty	782,3614698	339,8869089	0	0	TRUE	311,338379	0	324,1638793	294,0135	0	0	TRUE	33,5%	271,150746	0	0	TRUE	30,9%
5117	3	878,5284171	Non-Empty	621,4715702	238,7090473	0	0	TRUE	269,8725554	0	257,5007115	315,2623008	0	0	TRUE	35,9%	336,2269251	0	0	TRUE	38,3%
5118	1	1045,222423	Empty	534,1708325	341,7490064	144,3350948	0,138090316	FALSE	330,7965497	0,115926387	330,7965497	337,2632369	129,1320601	0,123545054	FALSE	32,3%	307,4183596	142,6113072	0,13644111	FALSE	29,4%
5118	2	1045,222423	Empty	559,7491257	364,1302352	144,3350948	0,138090316	FALSE	349,9807142	0,115926387	349,9807142	353,4128801	129,1320601	0,123545054	FALSE	33,8%	381,1987659	142,6113072	0,13644111	FALSE	36,5%
5118	3	1045,222423	Empty	495,7105725	339,3431809	144,3350948	0,138090316	FALSE	364,4451587	0,115926387	364,4451587	354,5462156	129,1320601	0,123545054	FALSE	33,9%	356,6052971	142,6113072	0,13644111	FALSE	34,1%
5119	1	1148,281739	Empty	486,4495777	346,8367389	163,3985058	0,142298271	FALSE	357,9919557	0,059236275	357,9919557	351,7492546	169,8176293	0,14788847	FALSE	30,6%	402,4905063	201,6144651	0,175579266	FALSE	35,1%
5119	2	1148,281739	Empty	533,7072683	372,5216127	163,3985058	0,142298271	FALSE	362,1040126	0,059236275	362,1040126	385,9210541	169,8176293	0,14788847	FALSE	33,6%	366,9766381	201,6144651	0,175579266	FALSE	32,0%
5119	3	1148,281739	Empty	580,4290592	428,923387	163,3985058	0,142298271	FALSE	428,1857703	0,059236275	428,1857703	410,6114299	169,8176293	0,14788847	FALSE	35,8%	378,8145942	201,6144651	0,175579266	FALSE	33,0%
5120	1	1385,165771	Empty	748,9542876	476,9192463	194,8514673	0,140670143	FALSE	466,3852945	0,054782374	466,3852945	461,8050419	178,5801967	0,128923339	FALSE	33,3%	441,4264546	198,958784	0,14363536	FALSE	31,9%
5120	2	1385,165771	Empty	743,6275273	471,8088663	194,8514673	0,140670143	FALSE	461,4912948	0,054782374	461,4912948	458,5205628	178,5801967	0,128923339	FALSE	33,1%	487,0912602	198,958784	0,14363536	FALSE	35,2%
5120	3	1385,165771	Empty	677,087225	436,4376587	194,8514673	0,140670143	FALSE	457,2891819	0,054782374	457,2891819	464,8401666	178,5801967	0,128923339	FALSE	33,6%	456,6480565	198,958784	0,14363536	FALSE	33,0%
5121	1	1526,207275	Empty	793,4539426	583,6869461	214,9366357	0,140830567	FALSE	593,5575128	0,086690046	593,5575128	510,3184243	288,3051575	0,188903016	FALSE	33,4%	558,3685152	240,2550666	0,157419684	FALSE	36,6%
5121	2	1526,207275	Empty	716,895359	485,6982948	214,9366357	0,140830567	FALSE	474,1387938	0,086690046	474,1387938	461,0789491	288,3051575	0,188903016	FALSE	30,2%	521,1439475	240,2550666	0,157419684	FALSE	34,1%
5121	3	1526,207275	Empty	674,7706628	456,8220339	214,9366357	0,140830567	FALSE	458,5109683	0,086690046	458,5109683	554,8099014	288,3051575	0,188903016	FALSE	36,4%	446,6948122	240,2550666	0,157419684	FALSE	29,3%
5122	1	742,2580489	Non-Empty	555,3111042	216,5389136	0	0	TRUE	249,488546	0	221,911768	209,2465652	0	0	TRUE	28,2%	239,172038	0	0	TRUE	32,2%
5122	2	742,2580489	Non-Empty	685,9102785	295,8946874	0	0	TRUE	277,6009192	0	274,1014207	258,4577027	0	0	TRUE	34,8%	247,4193496	0	0	TRUE	33,3%
5122	3	742,2580489	Non-Empty	616,2021351	229,824448	0	0	TRUE	215,1685838	0	246,2448602	274,55369	0	0	TRUE	37,0%	255,6666613	0	0	TRUE	34,4%
5123	1	781,8425757	Non-Empty	579,2532571	285,9666334	0	0	TRUE	289,7152694	0	270,7106034	255,0056354	0	0	TRUE	32,6%	253,1680721	0	0	TRUE	32,4%
5123	2	781,8425757	Non-Empty	559,9593961	256,9496438	0	0	TRUE	250,975151	0	261,6937309	246,5118665	0	0	TRUE	31,5%	297,8447907	0	0	TRUE	38,1%
5123	3	781,8425757	Non-Empty	533,7357012	238,9262985	0	0	TRUE	241,1521553	0	249,4382413	280,3250738	0	0	TRUE	35,9%	230,8297128	0	0	TRUE	29,5%
5124	1	1310,309089	Empty	664,6964232	425,8774379	140,9792055	0,107592328	FALSE	430,0111914	0,030584182	430,0111914	415,1988591	158,2445025	0,120768835	FALSE	31,7%	410,458269	171,0593641	0,130548865	FALSE	31,3%
5124	2	1310,309089	Empty	688,413321	448,4365779	140,9792055	0,107592328	FALSE	451,4125735	0,030584182	451,4125735	430,0135231	158,2445025	0,120768835	FALSE	32,8%	505,179408	171,0593641	0,130548865	FALSE	38,6%
5124	3	1310,309089	Empty	686,0575615	435,9950736	140,9792055	0,107592328	FALSE	428,8853245	0,030584182	428,8853245	465,0966705	158,2445025	0,120768835	FALSE	35,5%	394,6714125	171,0593641	0,130548865	FALSE	30,1%
5125	1	623,9136237	Non-Empty	500,325551	175,5389858	0	0	TRUE	182,0123567	0	192,9660598	195,470081	0	0	TRUE	31,3%	248,147464	0	0	TRUE	39,8%
5125	2	623,9136237	Non-Empty	535,8779804	202,9981339	0	0	TRUE	201,3782235	0	206,6779564	209,3599098	0	0	TRUE	33,6%	212,6978263	0	0	TRUE	34,1%
5125	3	623,9136237	Non-Empty	581,4899007	245,376504	0	0	TRUE	240,5230435	0	224,2696075	219,0836329	0	0	TRUE	35,1%	163,0683335	0	0	TRUE	26,1%
5126	1	890,9953731	Non-Empty	765,2578787	276,8958791	0	0	TRUE	291,6885161	0	284,0461549	274,8871554	0	0	TRUE	30,9%	254,5701066	0	0	TRUE	28,6%
5126	2	890,9953731	Non-Empty	846,9205034	324,9962689	0	0	TRUE	306,2266709	0	314,3574463	304,2210665	0	0	TRUE	34,1%	312,426949	0	0	TRUE	35,1%
5126	3	890,9953731	Non-Empty	788,2809006	289,1032251	0	0	TRUE	293,0801862	0	292,591772	311,8871512	0	0	TRUE	35,0%	323,9983175	0	0	TRUE	36,4%
5127	1	649,5363536	Non-Empty	536,6957656	199,2429994	0	0	TRUE	193,3391932	0	212,022239	198,6935969	0	0	TRUE	30,6%	221,270626	0	0	TRUE	34,1%
5127	2	649,5363536	Non-Empty	592,2439251	259,659388	0	0	TRUE	258,623811	0	233,9665991	219,2584389	0	0	TRUE	33,8%	228,4083881	0	0	TRUE	35,2%
5127	3	649,5363536	Non-Empty	515,2435431	190,6339663	0	0	TRUE	197,5733495	0	203,5475155	231,5843178	0	0	TRUE	35,7%	199,8573396	0	0	TRUE	30,8%
5128	1	618,1970209	Non-Empty	489,6896733	189,1083795	0	0	TRUE	169,8303306	0	207,0469178	205,4948702	0	0	TRUE	33,2%	214,4765174	0	0	TRUE	34,7%
5128	2	618,1970209	Non-Empty	484,1759897	188,8020389	0	0	TRUE	174,7313329	0	204,7156634	203,1810912	0	0	TRUE	32,9%	182,9358531	0	0	TRUE	29,6%
5128	3	618,1970209	Non-Empty	488,2410922	240,2866024	0	0	TRUE	273,6353574	0	206,4344396	209,5210594	0	0	TRUE	33,9%	220,7846503	0	0	TRUE	35,7%
5129	1	1468,369285	Empty	753,7636731	497,7203002	212,0978606	0,144444496	FALSE	489,5228433	0,026703968	489,5228433	474,7429142	227,9402442	0,155233596	FALSE	32,3%	499,5483133	224,0081771	0,15255575	FALSE	34,0%
5129	2	1468,369285	Empty	772,2465138	519,7416653	212,0978606	0,144444496	FALSE	515,082733	0,026703968	515,082733	486,3839603	227,9402442	0,155233596	FALSE	33,1%	529,8239686	224,0081771	0,15255575	FALSE	36,1%
5129	3	1468,369285	Empty	685,8968462	500,9073191	212,0978606	0,144444496	FALSE	463,7637082	0,026703968	463,7637082	507,24241	227,9402442	0,155233596	FALSE	34,5%	438,9970026	224,0081771	0,15255575	FALSE	29,9%
5130	1	1499,976032	Empty	773,5403384	500,1732592	194,0528731	0,129370649	FALSE	499,3460618	0,003899638	499,3460618	504,3739224	193,7793323	0,129188286	FALSE	33,6%	469,6894645	239,6264518	0,159753521	FALSE	31,3%
5130	2	1499,976032	Empty	736,2594148	470,9353309	194,0528731	0,129370649	FALSE	478,1511288	0,003899638	478,1511288	480,0655253	193,7793323	0,129188286	FALSE	32,0%	560,5971028	239,6264518	0,159753521	FALSE	37,4%
5130	3	1499,976032	Empty	807,7959241	528,8674417	194,0528731	0,129370649	FALSE	522,4788411	0,003899638	522,4788411	515,536584	193,7793323	0,129188286	FALSE	34,4%	469,6894645	239,6264518	0,159753521	FALSE	31,3%
5131	1	783,8252714	Non-Empty	683,7468325	278,4414957	0	0	TRUE	273,0567794	0	270,1862891	251,7691604	0	0	TRUE	32,1%	263,9411628	0	0	TRUE	33,7%
5131	2	783,8252714	Non-Empty	670,2422397	284,7360812	0	0	TRUE	299,1505431	0	264,8498757	246,7965011	0	0	TRUE	31,5%	263,9411628	0	0	TRUE	33,7%
5131	3	783,8252714	Non-Empty	629,5980604	220,6476945	0	0	TRUE	211,617949	0	248,7891066	285,2596099	0	0	TRUE	36,4%	255,9429458	0	0	TRUE	32,7%
5132	1	641,8922218	Non-Empty	500,2718539	171,4208018	0	0	TRUE	189,6883913	0	190,774										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5147	1	1079,61184	Empty	521,966836	331,2324404	133,0538589	0,123242312	FALSE	338,74382	0,00855492	338,74382	327,8687913	136,4175079	0,126357921	FALSE	30,4%	398,428179	215,66414	0,199760814	FALSE	36,9%
5147	2	1079,61184	Empty	597,8432864	392,6635878	133,0538589	0,123242312	FALSE	385,7296645	0,00855492	385,7296645	375,5299038	136,4175079	0,126357921	FALSE	34,8%	295,6080038	215,66414	0,199760814	FALSE	27,4%
5147	3	1079,61184	Empty	554,5390433	355,7158117	133,0538589	0,123242312	FALSE	355,1383554	0,00855492	355,1383554	376,2131447	136,4175079	0,126357921	FALSE	34,8%	385,5756571	215,66414	0,199760814	FALSE	35,7%
5148	1	898,8781612	Empty	377,4461643	266,6544998	141,8190155	0,157773346	FALSE	264,9631984	0,050014655	264,9631984	293,4358159	178,0095298	0,198035215	FALSE	32,6%	327,8261529	207,7829095	0,231158035	FALSE	36,5%
5148	2	898,8781612	Empty	373,2105693	270,215159	141,8190155	0,157773346	FALSE	276,3201118	0,050014655	276,3201118	290,1429614	178,0095298	0,198035215	FALSE	32,3%	285,5260042	207,7829095	0,231158035	FALSE	31,8%
5148	3	898,8781612	Empty	475,522517	362,0085025	141,8190155	0,157773346	FALSE	357,594851	0,050014655	357,594851	315,2993839	178,0095298	0,198035215	FALSE	35,1%	285,5260042	207,7829095	0,231158035	FALSE	31,8%
5149	1	1242,493129	Empty	485,3868955	349,0651941	195,1566258	0,157068576	FALSE	354,9064106	0,023191911	354,9064106	357,9057845	199,3430599	0,160437958	FALSE	28,8%	310,6232822	233,5985378	0,188007911	FALSE	25,0%
5149	2	1242,493129	Empty	589,4261547	445,9556268	195,1566258	0,157068576	FALSE	444,6480168	0,023191911	444,6480168	434,6203663	199,3430599	0,160437958	FALSE	35,0%	486,1929634	233,5985378	0,188007911	FALSE	39,1%
5149	3	1242,493129	Empty	594,168832	447,4723077	195,1566258	0,157068576	FALSE	442,9387013	0,023191911	442,9387013	449,9669779	199,3430599	0,160437958	FALSE	36,2%	445,6768831	233,5985378	0,188007911	FALSE	35,9%
5150	1	1564,170557	Empty	768,7452214	533,5831046	233,3843419	0,149206454	FALSE	543,9089766	0,04645829	543,9089766	512,6535594	254,3138871	0,162587057	FALSE	32,8%	542,0393019	258,8293677	0,165473878	FALSE	34,7%
5150	2	1564,170557	Empty	751,5440042	505,2273724	233,3843419	0,149206454	FALSE	504,3987295	0,04645829	504,3987295	501,182574	254,3138871	0,162587057	FALSE	32,0%	542,0393019	258,8293677	0,165473878	FALSE	34,7%
5150	3	1564,170557	Empty	780,3452979	525,36008	233,3843419	0,149206454	FALSE	515,8628509	0,04645829	515,8628509	550,3344236	254,3138871	0,162587057	FALSE	35,2%	480,0919531	258,8293677	0,165473878	FALSE	30,7%
5151	1	693,8672129	Non-Empty	563,5077431	213,7792975	0	0	TRUE	219,1968616	0	222,2465652	217,9938518	0	0	TRUE	31,4%	163,2628736	0	0	TRUE	23,5%
5151	2	693,8672129	Non-Empty	605,3225731	228,0263072	0	0	TRUE	205,8760509	0	238,7382682	234,1699842	0	0	TRUE	33,7%	277,5468852	0	0	TRUE	40,0%
5151	3	693,8672129	Non-Empty	590,4749257	252,0616083	0	0	TRUE	268,7943005	0	232,8823795	241,703377	0	0	TRUE	34,8%	253,0574541	0	0	TRUE	36,5%
5152	1	1006,9982	Empty	509,1804967	348,0070478	114,8042351	0,114006396	FALSE	355,6865388	0,059930313	355,6865388	324,7114447	138,0998383	0,137140104	FALSE	32,2%	338,989493	149,2008494	0,148163968	FALSE	33,7%
5152	2	1006,9982	Empty	501,2356163	326,2400675	114,8042351	0,114006396	FALSE	320,0974586	0,059930313	320,0974586	319,6448846	138,0998383	0,137140104	FALSE	31,7%	378,8706098	149,2008494	0,148163968	FALSE	37,6%
5152	3	1006,9982	Empty	503,1409063	332,7510843	114,8042351	0,114006396	FALSE	331,2142022	0,059930313	331,2142022	362,6418704	138,0998383	0,137140104	FALSE	36,0%	289,1380969	149,2008494	0,148163968	FALSE	28,7%
5153	1	1278,778165	Empty	674,1227778	463,2583072	154,0781105	0,120488537	FALSE	461,5268429	0,024876979	461,5268429	433,5416525	177,5874497	0,138872757	FALSE	33,9%	440,9579878	213,0023691	0,166567099	FALSE	34,5%
5153	2	1278,778165	Empty	601,2661256	396,6089705	154,0781105	0,120488537	FALSE	401,0848217	0,024876979	401,0848217	386,6861027	177,5874497	0,138872757	FALSE	30,2%	485,0537866	213,0023691	0,166567099	FALSE	37,9%
5153	3	1278,778165	Empty	630,7882803	418,910887	154,0781105	0,120488537	FALSE	416,1665001	0,024876979	416,1665001	458,5504095	177,5874497	0,138872757	FALSE	35,9%	352,7663902	213,0023691	0,166567099	FALSE	27,6%
5154	1	1582,467424	Empty	801,1238933	507,6659633	202,2309676	0,127794711	FALSE	490,0563338	0,08527994	490,0563338	519,8088557	206,4249738	0,130445007	FALSE	32,8%	565,1669373	248,9506378	0,157318017	FALSE	35,7%
5154	2	1582,467424	Empty	803,2110943	529,1120213	202,2309676	0,127794711	FALSE	530,8612488	0,08527994	530,8612488	521,1631351	206,4249738	0,130445007	FALSE	32,9%	468,2811766	248,9506378	0,157318017	FALSE	29,6%
5154	3	1582,467424	Empty	805,6773383	545,6894398	202,2309676	0,127794711	FALSE	561,5498418	0,08527994	561,5498418	541,4954336	206,4249738	0,130445007	FALSE	34,2%	549,0193105	248,9506378	0,157318017	FALSE	34,7%
5155	1	751,2177113	Non-Empty	728,669013	276,2123651	0	0	TRUE	275,6482439	0	259,8083875	252,21161743	0	0	TRUE	33,6%	272,1803302	0	0	TRUE	36,2%
5155	2	751,2177113	Non-Empty	692,8392288	242,9869138	0	0	TRUE	245,0271256	0	247,0332066	239,7192315	0	0	TRUE	31,9%	239,5186906	0	0	TRUE	31,9%
5155	3	751,2177113	Non-Empty	685,3870497	232,0184323	0	0	TRUE	230,5423418	0	244,3761173	259,3823055	0	0	TRUE	34,5%	239,5186906	0	0	TRUE	31,9%
5156	1	753,8477958	Non-Empty	638,9249758	217,6301851	0	0	TRUE	217,2717083	0	238,83697	226,9923703	0	0	TRUE	30,1%	231,9531679	0	0	TRUE	30,8%
5156	2	753,8477958	Non-Empty	737,1111219	316,9397466	0	0	TRUE	317,7046852	0	275,5399986	261,8751921	0	0	TRUE	34,7%	270,6120293	0	0	TRUE	35,9%
5156	3	753,8477958	Non-Empty	640,6206397	219,277864	0	0	TRUE	218,8714022	0	239,4708273	264,9802334	0	0	TRUE	35,2%	251,2825986	0	0	TRUE	33,3%
5157	1	801,1395358	Non-Empty	738,2849252	283,5287677	0	0	TRUE	266,5887064	0	279,7089983	272,7337222	0	0	TRUE	34,0%	193,3785086	0	0	TRUE	24,1%
5157	2	801,1395358	Non-Empty	680,8044689	245,0657164	0	0	TRUE	247,1430602	0	257,931768	251,4995641	0	0	TRUE	31,4%	276,2550123	0	0	TRUE	34,5%
5157	3	801,1395358	Non-Empty	695,4984306	272,5450517	0	0	TRUE	287,4077691	0	263,4987695	276,9062495	0	0	TRUE	34,6%	331,5060148	0	0	TRUE	41,4%
5158	1	1496,519108	Empty	731,3697702	498,3400772	163,0233451	0,108935024	FALSE	522,9948341	0,108816977	522,9948341	473,3410999	188,0223224	0,125639774	FALSE	31,6%	444,0221528	217,3412694	0,145231202	FALSE	29,7%
5158	2	1496,519108	Empty	719,2766968	469,312102	163,0233451	0,108935024	FALSE	477,0319572	0,108816977	477,0319572	465,5144862	188,0223224	0,125639774	FALSE	31,1%	526,2484774	217,3412694	0,145231202	FALSE	35,2%
5158	3	1496,519108	Empty	818,9259906	528,8669285	163,0233451	0,108935024	FALSE	496,4923164	0,108816977	496,4923164	557,6635216	188,0223224	0,125639774	FALSE	37,3%	526,2484774	217,3412694	0,145231202	FALSE	35,2%
5159	1	1285,198077	Empty	776,8316262	452,0301444	86,23171778	0,067096053	FALSE	425,2128698	0,10788785	425,2128698	414,2072617	80,25303204	0,062444096	FALSE	32,2%	459,9656276	64,16276614	0,049924418	FALSE	35,8%
5159	2	1285,198077	Empty	791,2735511	476,4416615	86,23171778	0,067096053	FALSE	459,5939791	0,10788785	459,5939791	421,9077079	80,25303204	0,062444096	FALSE	32,8%	446,4372268	64,16276614	0,049924418	FALSE	34,7%
5159	3	1285,198077	Empty	611,0455213	356,7262711	86,23171778	0,067096053	FALSE	400,391228	0,10788785	400,391228	449,0831074	80,25303204	0,062444096	FALSE	34,9%	378,7952227	64,16276614	0,049924418	FALSE	29,5%
5160	1	676,0950148	Non-Empty	532,9420048	207,3858146	0	0	TRUE	200,4438384	0	220,7924004	210,1522788	0	0	TRUE	31,1%	278,802068	0	0	TRUE	41,2%
5160	2	676,0950148	Non-Empty	561,6524727	246,0869685	0	0	TRUE	249,1356783	0	232,6868525	221,4735299	0	0	TRUE	32,8%	250,9218612	0	0	TRUE	37,1%
5160	3	676,0950148	Non-Empty	537,3431795	222,6222317	0	0	TRUE	226,515498	0	222,6157619	244,4692062	0	0	TRUE	36,2%	146,3710857	0	0	TRUE	21,6%
5161	1	858,1844995	Non-Empty	617,8673589	301,7117104	0	0	TRUE	291,3738463	0	298,6218104	288,2948107	0	0	TRUE	33,6%	280,7145559	0	0	TRUE	32,7%
5161	2	858,1844995	Non-Empty	557,2896846	276,5351808	0	0	TRUE	301,5984614	0	269,3439816	260,0294736	0	0	TRUE	30,3%	296,7553877	0	0	TRUE	34,6%
5161	3	858,1844995	Non-Empty	600,4808091	279,9376083	0	0	TRUE	265,2121918	0	290,2187075	309,8602152	0	0	TRUE	36,1%	280,7145559	0	0	TRUE	32,7%
5162	1	729,7442684	Non-Empty	668,6372778	282,6132206	0	0	TRUE	295,4434459	0	253,3003264	244,1055296	0	0	TRUE	33,5%	255,7866508	0	0	TRUE	35,1%
5162	2	729,7442684	Non-Empty	612,3140139	212,3777557	0	0	TRUE	211,29578	0	231,963345	223,5430802	0	0	TRUE	30,6%	203,1246933	0	0	TRUE	27,8%
5162	3	729,7442684	Non-Empty	645,355824	234,753292	0	0	TRUE	223,0050425	0	244,480597	262,095									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5178	1	542,0501923	Non-Empty	522,0435335	193,3219037	0	0	TRUE	181,3263985	0	189,6316718	183,6510189	0	0	TRUE	33,9%	180,6833974	0	0	TRUE	33,3%
5178	2	542,0501923	Non-Empty	493,0622494	174,7484751	0	0	TRUE	173,1608255	0	179,104256	173,4556194	0	0	TRUE	32,0%	187,1363759	0	0	TRUE	34,5%
5178	3	542,0501923	Non-Empty	477,1227835	173,9798135	0	0	TRUE	187,5629683	0	173,3142646	184,9435541	0	0	TRUE	34,1%	174,230419	0	0	TRUE	32,1%
5179	1	1317,342268	Empty	619,209865	414,6652602	188,3986173	0,143014175	FALSE	407,9072052	0,062371284	407,9072052	201,4936308	201,4936308	0,152954654	FALSE	32,1%	426,198969	194,5253857	0,14766503	FALSE	32,4%
5179	2	1317,342268	Empty	628,0009669	441,541013	188,3986173	0,143014175	FALSE	452,867609	0,062371284	452,867609	428,4459996	201,4936308	0,152954654	FALSE	32,5%	452,0292096	194,5253857	0,14766503	FALSE	34,3%
5179	3	1317,342268	Empty	663,4910858	461,1359948	188,3986173	0,143014175	FALSE	456,5674537	0,062371284	456,5674537	466,4478909	201,4936308	0,152954654	FALSE	35,4%	439,1140893	194,5253857	0,14766503	FALSE	33,3%
5180	1	1398,346153	Empty	770,7195775	519,4470485	184,0980121	0,131654106	FALSE	512,3889338	0,065709383	512,3889338	484,5079116	202,5099387	0,144821036	FALSE	34,6%	450,5782049	227,1188282	0,162419604	FALSE	32,2%
5180	2	1398,346153	Empty	656,610234	431,1857324	184,0980121	0,131654106	FALSE	449,9756451	0,065709383	449,9756451	412,7738058	202,5099387	0,144821036	FALSE	29,5%	450,5782049	227,1188282	0,162419604	FALSE	32,2%
5180	3	1398,346153	Empty	703,6595847	447,7133724	184,0980121	0,131654106	FALSE	435,9815744	0,065709383	435,9815744	501,0644359	202,5099387	0,144821036	FALSE	35,8%	497,1897434	227,1188282	0,162419604	FALSE	35,6%
5181	1	745,2700937	Non-Empty	640,1298348	239,2366954	0	0	TRUE	236,2427362	0	246,0431074	241,2044799	0	0	TRUE	32,4%	234,4669958	0	0	TRUE	31,5%
5181	2	745,2700937	Non-Empty	646,068401	249,6937817	0	0	TRUE	251,2183427	0	248,3256808	243,4421646	0	0	TRUE	32,7%	259,5884596	0	0	TRUE	34,8%
5181	3	745,2700937	Non-Empty	652,7693985	256,3396166	0	0	TRUE	257,8090148	0	250,9013055	260,6234492	0	0	TRUE	35,0%	251,2146383	0	0	TRUE	33,7%
5182	1	1761,594211	Empty	801,3279243	558,6385901	254,7104153	0,144590856	FALSE	584,0258766	0,083408293	584,0258766	554,9175632	258,4314422	0,146703163	FALSE	31,5%	573,5423011	282,079245	0,160127255	FALSE	32,6%
5182	2	1761,594211	Empty	843,4331601	559,8601711	254,7104153	0,144590856	FALSE	544,3638028	0,083408293	544,3638028	584,0753326	258,4314422	0,146703163	FALSE	33,2%	491,6076867	282,079245	0,160127255	FALSE	27,9%
5182	3	1761,594211	Empty	921,0629883	643,0954494	254,7104153	0,144590856	FALSE	633,2045313	0,083408293	633,2045313	622,6013149	258,4314422	0,146703163	FALSE	35,3%	696,4442228	282,079245	0,160127255	FALSE	39,5%
5183	1	1405,235341	Empty	718,8317198	472,2773773	186,671677	0,132840152	FALSE	469,1851086	0,031920009	469,1851086	452,3275287	218,016941	0,155146213	FALSE	32,2%	547,3021854	239,4604932	0,170405971	FALSE	38,9%
5183	2	1405,235341	Empty	733,161828	492,6900665	186,671677	0,132840152	FALSE	495,6803788	0,031920009	495,6803788	461,3448024	218,016941	0,155146213	FALSE	32,8%	473,3424306	239,4604932	0,170405971	FALSE	33,7%
5183	3	1405,235341	Empty	683,6280146	440,267897	186,671677	0,132840152	FALSE	440,3698534	0,031920009	440,3698534	491,5630097	218,016941	0,155146213	FALSE	35,0%	384,5907248	239,4604932	0,170405971	FALSE	27,4%
5184	1	630,5674455	Non-Empty	543,5382327	241,353869	0	0	TRUE	236,1966915	0	225,2408499	219,5904014	0	0	TRUE	34,8%	171,9729397	0	0	TRUE	27,3%
5184	2	630,5674455	Non-Empty	451,912583	164,8417191	0	0	TRUE	174,7980413	0	187,2714156	182,5734779	0	0	TRUE	29,0%	242,0359892	0	0	TRUE	38,4%
5184	3	630,5674455	Non-Empty	526,1981882	224,3718575	0	0	TRUE	219,5727128	0	218,05518	228,4035663	0	0	TRUE	36,2%	216,5585167	0	0	TRUE	34,3%
5185	1	1544,149564	Empty	719,0690237	486,8953042	197,8227	0,128111101	FALSE	504,462058	0,067604276	504,462058	481,2874088	203,4305954	0,131742805	FALSE	31,2%	533,0992541	214,9055462	0,139174048	FALSE	34,5%
5185	2	1544,149564	Empty	773,4451746	507,0130428	197,8227	0,128111101	FALSE	490,3213843	0,067604276	490,3213843	517,682464	203,4305954	0,131742805	FALSE	33,5%	496,3337883	214,9055462	0,139174048	FALSE	32,1%
5185	3	1544,149564	Empty	800,8567852	550,2412166	197,8227	0,128111101	FALSE	549,3661213	0,067604276	549,3661213	545,1796909	203,4305954	0,131742805	FALSE	35,3%	514,7165212	214,9055462	0,139174048	FALSE	33,3%
5186	1	590,0991124	Non-Empty	539,2687165	210,3399012	0	0	TRUE	199,9484535	0	205,8741554	192,3013827	0	0	TRUE	32,6%	177,7406965	0	0	TRUE	30,1%
5186	2	590,0991124	Non-Empty	545,161834	212,1683745	0	0	TRUE	197,7122827	0	208,123944	194,4028483	0	0	TRUE	32,9%	199,0695801	0	0	TRUE	33,7%
5186	3	590,0991124	Non-Empty	461,2806648	167,5908367	0	0	TRUE	192,4383762	0	176,101013	203,3948813	0	0	TRUE	34,5%	213,2888358	0	0	TRUE	36,1%
5187	1	1791,760652	Empty	945,1829753	610,9012439	250,3648459	0,139731189	FALSE	599,5085238	0,039129417	599,5085238	617,435032	245,2863654	0,136896837	FALSE	34,5%	676,136095	373,1004842	0,208231208	FALSE	37,7%
5187	2	1791,760652	Empty	852,3182977	551,6932654	250,3648459	0,139731189	FALSE	573,9572443	0,039129417	573,9572443	556,7717459	245,2863654	0,136896837	FALSE	31,1%	642,3292903	373,1004842	0,208231208	FALSE	35,8%
5187	3	1791,760652	Empty	962,9264126	629,1661425	250,3648459	0,139731189	FALSE	618,2948836	0,039129417	618,2948836	617,5538739	245,2863654	0,136896837	FALSE	34,5%	473,2952665	373,1004842	0,208231208	FALSE	26,4%
5188	1	597,2641099	Non-Empty	483,9843419	209,3369417	0	0	TRUE	223,9352174	0	197,3148483	195,8145088	0	0	TRUE	32,8%	194,6141482	0	0	TRUE	32,6%
5188	2	597,2641099	Non-Empty	454,7548464	161,9224102	0	0	TRUE	158,3356498	0	185,3983192	183,9885905	0	0	TRUE	30,8%	194,6141482	0	0	TRUE	32,6%
5188	3	597,2641099	Non-Empty	526,2619492	226,004758	0	0	TRUE	214,9932427	0	214,5509424	217,4610106	0	0	TRUE	36,4%	208,0358135	0	0	TRUE	34,8%
5189	1	893,47622	Non-Empty	811,0084221	318,7736386	0	0	TRUE	306,506964	0	310,5437475	292,6624067	0	0	TRUE	32,8%	322,0670095	0	0	TRUE	36,0%
5189	2	893,47622	Non-Empty	785,1496863	310,6947291	0	0	TRUE	316,2078808	0	300,6421626	283,3309625	0	0	TRUE	31,7%	249,3422009	0	0	TRUE	27,9%
5189	3	893,47622	Non-Empty	737,2224385	260,0078523	0	0	TRUE	270,7613751	0	282,2903099	317,4828508	0	0	TRUE	35,5%	322,0670095	0	0	TRUE	36,0%
5190	1	720,7357189	Non-Empty	618,3282992	252,3977139	0	0	TRUE	247,9964387	0	246,8539597	228,8625717	0	0	TRUE	31,8%	227,9878295	0	0	TRUE	31,6%
5190	2	720,7357189	Non-Empty	633,1005765	266,0042807	0	0	TRUE	260,4372948	0	252,7514662	234,3302518	0	0	TRUE	32,5%	227,9878295	0	0	TRUE	31,6%
5190	3	720,7357189	Non-Empty	553,8947732	202,3337243	0	0	TRUE	212,3102954	0	221,1302931	257,5428954	0	0	TRUE	35,7%	264,76006	0	0	TRUE	36,7%
5191	1	1345,150427	Empty	681,9262895	455,967342	138,8409195	0,103215906	FALSE	464,3635291	0,084219364	464,3635291	422,8115884	174,1894797	0,129494424	FALSE	31,4%	495,5817362	229,4280525	0,170559402	FALSE	36,8%
5191	2	1345,150427	Empty	682,8511179	458,7335656	138,8409195	0,103215906	FALSE	468,9711479	0,084219364	468,9711479	423,3850055	174,1894797	0,129494424	FALSE	31,5%	368,1464326	229,4280525	0,170559402	FALSE	27,4%
5191	3	1345,150427	Empty	683,4384229	430,4495192	138,8409195	0,103215906	FALSE	411,8157499	0,084219364	411,8157499	498,953833	174,1894797	0,129494424	FALSE	37,1%	481,422258	229,4280525	0,170559402	FALSE	35,8%
5192	1	1443,497687	Empty	735,9730093	490,3175278	175,1660164	0,121348318	FALSE	503,8994233	0,053240429	503,8994233	454,0640893	211,4194549	0,146463314	FALSE	31,5%	523,6217098	187,3172397	0,129766221	FALSE	36,3%
5192	2	1443,497687	Empty	772,1081812	501,0889028	175,1660164	0,121348318	FALSE	489,3070014	0,053240429	489,3070014	476,3579556	211,4194549	0,146463314	FALSE	33,0%	495,3178336	187,3172397	0,129766221	FALSE	34,3%
5192	3	1443,497687	Empty	713,1286269	452,0912559	175,1660164	0,121348318	FALSE	450,2912619	0,053240429	450,2912619	513,0756417	211,4194549	0,146463314	FALSE	35,5%	424,5581431	187,3172397	0,129766221	FALSE	29,4%
5193	1	937,6813962	Non-Empty	707,0912581	352,8601357	0	0	TRUE	344,7920675	0	335,510675	312,5526492	0	0	TRUE	33,3%	343,5070461	0	0	TRUE	36,6%
5193	2	937,6813962	Non-Empty	666,4650383	314,8153065	0	0	TRUE	309,3286289	0	316,2337708	294,5948079	0	0	TRUE	31,4%	250,6673039	0	0	TRUE	26,7%
5193	3	937,6813962	Non-Empty	602,6142625	270,005954	0	0	TRUE	283,5606998	0	285,9369504	330,5339391	0	0	TRUE	35,3%	343,5070461	0	0	TRUE	36,6%
5194	1	617,8163958	Non-Empty	486,8723885	195,3338702	0	0	TRUE	192,5412633	0	202,686504										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5209	1	1031,73268	Non-Empty	775,0096994	312,1355016	0	0	TRUE	319,6818686	0	327,3044107	310,3997504	0	0	TRUE	30,1%	377,9614768	0	0	TRUE	36,6%
5209	2	1031,73268	Non-Empty	876,9649353	410,1521435	0	0	TRUE	413,7599165	0	370,3624505	351,233923	0	0	TRUE	34,0%	275,8097263	0	0	TRUE	26,7%
5209	3	1031,73268	Non-Empty	791,0197396	309,4450348	0	0	TRUE	298,2908948	0	334,0658187	370,0990065	0	0	TRUE	35,9%	377,9614768	0	0	TRUE	36,6%
5210	1	999,9963368	Empty	539,7284935	377,1916372	121,9173263	0,121917773	FALSE	369,4793006	0,025895896	369,4793006	150,9511983	0,150951751	0,150951751	FALSE	33,7%	364,7045464	131,7382185	0,131738701	FALSE	36,5%
5210	2	999,9963368	Empty	477,9185761	327,4667874	121,9173263	0,121917773	FALSE	331,8395183	0,025895896	331,8395183	298,4329154	150,9511983	0,150951751	FALSE	29,8%	317,6458952	131,7382185	0,131738701	FALSE	31,8%
5210	3	999,9963368	Empty	446,8228261	295,3379122	121,9173263	0,121917773	FALSE	298,6775179	0,025895896	298,6775179	364,5337348	150,9511983	0,150951751	FALSE	36,5%	317,6458952	131,7382185	0,131738701	FALSE	31,8%
5211	1	814,0123574	Non-Empty	765,5963163	289,4316286	0	0	TRUE	281,1247703	0	281,0285173	274,5242861	0	0	TRUE	33,7%	228,9409755	0	0	TRUE	28,1%
5211	2	814,0123574	Non-Empty	717,0878565	256,6937633	0	0	TRUE	264,1574994	0	263,2224487	257,1303279	0	0	TRUE	31,6%	305,254634	0	0	TRUE	37,5%
5211	3	814,0123574	Non-Empty	734,9016727	267,8869655	0	0	TRUE	268,7300877	0	269,7613913	282,3577434	0	0	TRUE	34,7%	279,8167479	0	0	TRUE	34,4%
5212	1	1297,655359	Empty	600,0854871	419,1468171	162,0106275	0,124848733	FALSE	413,4405839	0,055661388	413,4405839	432,474393	155,1757036	0,1195816	FALSE	33,3%	413,538521	216,385341	0,166751009	FALSE	31,9%
5212	2	1297,655359	Empty	532,7616417	377,1199834	162,0106275	0,124848733	FALSE	396,710762	0,055661388	396,710762	383,9549073	155,1757036	0,1195816	FALSE	29,6%	470,578317	216,385341	0,166751009	FALSE	36,3%
5212	3	1297,655359	Empty	690,5055406	501,3885584	162,0106275	0,124848733	FALSE	487,504013	0,055661388	487,504013	481,2260586	155,1757036	0,1195816	FALSE	37,1%	413,538521	216,385341	0,166751009	FALSE	31,9%
5213	1	557,7187104	Non-Empty	474,357745	179,7382934	0	0	TRUE	172,0281416	0	186,5126174	187,4978652	0	0	TRUE	33,6%	207,5232411	0	0	TRUE	37,2%
5213	2	557,7187104	Non-Empty	416,3520927	158,6935337	0	0	TRUE	187,9442744	0	163,7053877	164,5701569	0	0	TRUE	29,5%	207,5232411	0	0	TRUE	37,2%
5213	3	557,7187104	Non-Empty	527,7367721	219,2868833	0	0	TRUE	197,7462944	0	207,5007053	205,6506883	0	0	TRUE	36,9%	142,6722282	0	0	TRUE	25,6%
5214	1	724,558373	Non-Empty	632,2218938	261,8673812	0	0	TRUE	264,8174908	0	248,3537876	238,7316393	0	0	TRUE	32,9%	251,3773947	0	0	TRUE	34,7%
5214	2	724,558373	Non-Empty	591,9778472	225,6216005	0	0	TRUE	232,5699759	0	232,5448422	223,5351911	0	0	TRUE	30,9%	214,4101308	0	0	TRUE	29,6%
5214	3	724,558373	Non-Empty	620,2724983	237,0693912	0	0	TRUE	227,1709063	0	243,6597432	262,2915426	0	0	TRUE	36,2%	258,7708475	0	0	TRUE	35,7%
5215	1	1488,425554	Empty	749,7289966	490,0102441	180,9624441	0,121579775	FALSE	491,2837105	0,019196561	491,2837105	481,0732678	187,7369301	0,126131219	FALSE	32,3%	507,4178025	208,2080614	0,139884767	FALSE	34,1%
5215	2	1488,425554	Empty	763,2813858	497,5797437	180,9624441	0,121579775	FALSE	492,8703205	0,019196561	492,8703205	489,7693329	187,7369301	0,126131219	FALSE	32,9%	507,4178025	208,2080614	0,139884767	FALSE	34,1%
5215	3	1488,425554	Empty	758,3918285	500,8355663	180,9624441	0,121579775	FALSE	504,2715231	0,019196561	504,2715231	517,5829535	187,7369301	0,126131219	FALSE	34,8%	473,589949	208,2080614	0,139884767	FALSE	31,8%
5216	1	674,8129254	Non-Empty	647,8196607	232,6263089	0	0	TRUE	222,4977045	0	231,2991654	228,2243722	0	0	TRUE	33,8%	222,4657996	0	0	TRUE	33,0%
5216	2	674,8129254	Non-Empty	614,3912551	213,7137661	0	0	TRUE	218,1010243	0	219,3638032	216,4476737	0	0	TRUE	32,1%	281,7900128	0	0	TRUE	41,8%
5216	3	674,8129254	Non-Empty	627,7962514	228,4728504	0	0	TRUE	234,2141967	0	224,1499569	230,1408796	0	0	TRUE	34,1%	170,557113	0	0	TRUE	25,3%
5217	1	1113,996616	Empty	553,3723113	354,8488713	108,3739739	0,097283935	FALSE	351,2051316	0,033481842	351,2051316	355,3541309	118,3888701	0,106273994	FALSE	31,9%	440,7019579	149,7566282	0,134431852	FALSE	39,6%
5217	2	1113,996616	Empty	559,918001	369,5724139	108,3739739	0,097283935	FALSE	374,1065271	0,033481842	374,1065271	359,5575177	118,3888701	0,106273994	FALSE	32,3%	330,5264684	149,7566282	0,134431852	FALSE	29,7%
5217	3	1113,996616	Empty	585,3454045	389,5753306	108,3739739	0,097283935	FALSE	388,684957	0,033481842	388,684957	399,0849671	118,3888701	0,106273994	FALSE	35,8%	342,7681895	149,7566282	0,134431852	FALSE	30,8%
5218	1	492,6451181	Non-Empty	448,2713207	233,7842013	0	0	TRUE	233,5258982	0	194,5146988	168,8704069	0	0	TRUE	34,3%	171,1293568	0	0	TRUE	34,7%
5218	2	492,6451181	Non-Empty	374,041	147,225873	0	0	TRUE	134,6395622	0	162,3045444	140,9067522	0	0	TRUE	28,6%	165,9436187	0	0	TRUE	33,7%
5218	3	492,6451181	Non-Empty	313,0192459	11,6350437	0	0	TRUE	124,4796577	0	135,8258749	182,867959	0	0	TRUE	37,1%	155,5721425	0	0	TRUE	31,6%
5219	1	808,3401358	Non-Empty	666,3528745	266,5583634	0	0	TRUE	275,1377436	0	264,8880695	257,3926844	0	0	TRUE	31,8%	292,1711334	0	0	TRUE	36,1%
5219	2	808,3401358	Non-Empty	669,8934177	255,5540523	0	0	TRUE	249,5885782	0	266,2955034	258,760293	0	0	TRUE	32,0%	243,4759445	0	0	TRUE	30,1%
5219	3	808,3401358	Non-Empty	697,2155173	286,22772	0	0	TRUE	283,613814	0	277,1565629	292,1871584	0	0	TRUE	36,1%	272,6930579	0	0	TRUE	33,7%
5220	1	1527,269712	Empty	822,9161831	544,0032658	215,8051543	0,141301273	FALSE	528,3637311	0,094307091	528,3637311	507,3322749	202,0211906	0,132276041	FALSE	33,2%	593,1144512	224,0190751	0,146679446	FALSE	38,8%
5220	2	1527,269712	Empty	804,3181934	521,8689256	215,8051543	0,141301273	FALSE	502,6930404	0,094307091	502,6930404	495,8665138	202,0211906	0,132276041	FALSE	32,5%	459,6636997	224,0190751	0,146679446	FALSE	30,1%
5220	3	1527,269712	Empty	689,8554832	461,3975205	215,8051543	0,141301273	FALSE	496,2129404	0,094307091	496,2129404	524,0709231	202,0211906	0,132276041	FALSE	34,3%	474,491561	224,0190751	0,146679446	FALSE	31,1%
5221	1	932,3108337	Non-Empty	830,8714581	311,8923475	0	0	TRUE	306,3562368	0	313,2807501	300,6573181	0	0	TRUE	32,2%	250,1321749	0	0	TRUE	26,8%
5221	2	932,3108337	Non-Empty	837,5711098	328,8498732	0	0	TRUE	333,5716365	0	315,8068591	303,0816393	0	0	TRUE	32,5%	306,9803965	0	0	TRUE	32,9%
5221	3	932,3108337	Non-Empty	804,1972657	291,568613	0	0	TRUE	292,3829603	0	303,2232425	328,5718762	0	0	TRUE	35,2%	375,1982623	0	0	TRUE	40,2%
5222	1	719,9661673	Empty	405,4571558	276,948381	103,150942	0,14327193	FALSE	262,3626116	0,158770992	262,3626116	259,3820641	121,9611652	0,169398467	FALSE	36,0%	225,5315705	115,61518	0,160584185	FALSE	31,3%
5222	2	719,9661673	Empty	300,7901083	211,233906	103,150942	0,14327193	FALSE	235,6007091	0,158770992	235,6007091	192,4236828	121,9611652	0,169398467	FALSE	26,7%	242,8801528	115,61518	0,160584185	FALSE	33,7%
5222	3	719,9661673	Empty	355,4879193	231,7838803	103,150942	0,14327193	FALSE	222,0028467	0,158770992	222,0028467	268,1604204	121,9611652	0,169398467	FALSE	37,2%	251,554444	115,61518	0,160584185	FALSE	34,9%
5223	1	1524,448857	Empty	719,2145574	493,2636677	231,5974195	0,151922066	FALSE	515,2568708	0,068164846	515,2568708	471,2093137	253,6517735	0,166389166	FALSE	30,9%	503,0681227	264,3116457	0,173381773	FALSE	33,0%
5223	2	1524,448857	Empty	789,8821676	526,9900806	231,5974195	0,151922066	FALSE	512,0420864	0,068164846	512,0420864	517,5087605	253,6517735	0,166389166	FALSE	33,9%	457,334657	264,3116457	0,173381773	FALSE	30,0%
5223	3	1524,448857	Empty	759,1844103	504,1951085	231,5974195	0,151922066	FALSE	497,1498995	0,068164846	497,1498995	535,7307826	253,6517735	0,166389166	FALSE	35,1%	564,046077	264,3116457	0,173381773	FALSE	37,0%
5224	1	758,5275141	Non-Empty	683,0912625	246,9263799	0	0	TRUE	239,1439565	0	253,5351975	253,4113961	0	0	TRUE	33,4%	215,257808	0	0	TRUE	28,4%
5224	2	758,5275141	Non-Empty	666,4387907	235,4859528	0	0	TRUE	232,9155741	0	247,3544893	247,2337059	0	0	TRUE	32,6%	215,257808	0	0	TRUE	28,4%
5224	3	758,5275141	Non-Empty	694,1448386	276,1151814	0	0	TRUE	286,4679835	0	257,6378273	257,8824121	0	0	TRUE	34,0%	328,011898	0	0	TRUE	43,2%
5225	1	857,8851015	Non-Empty	763,5430942	307,9680231	0	0	TRUE	292,2355749	0	300,8305057	277,1630901	0	0	TRUE	32,3%	262,4119134	0	0	TRUE	30,6%
5225	2	857,8851015	Non-Empty	744,740147	315,1030161	0	0	TRUE	325,3085082	0	293										

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5240	1	862,8253834	Non-Empty	716,07716	255,9232456	0	0	TRUE	258,7669911	0	274,3780583	278,3540575	0	0	TRUE	32,3%	276,5465972	0	0	TRUE	32,1%
5240	2	862,8253834	Non-Empty	721,1589216	269,4397106	0	0	TRUE	280,7181594	0	276,3252282	280,3294437	0	0	TRUE	32,5%	331,8559167	0	0	TRUE	38,5%
5240	3	862,8253834	Non-Empty	814,5822816	337,4624273	0	0	TRUE	323,3402329	0	312,1220969	304,1418822	0	0	TRUE	35,2%	254,4228695	0	0	TRUE	29,5%
5241	1	1514,0252221	Empty	802,532635	507,9843431	184,5137402	0,121869661	FALSE	491,6770451	0,082686212	491,6770451	495,6155502	224,76339	0,148454192	FALSE	32,7%	567,7594577	258,8335703	0,170957238	FALSE	37,5%
5241	2	1514,0252221	Empty	779,5071211	521,6454634	184,5137402	0,121869661	FALSE	542,0247996	0,082686212	542,0247996	481,3958135	224,76339	0,148454192	FALSE	31,8%	447,3256333	258,8335703	0,170957238	FALSE	29,5%
5241	3	1514,0252221	Empty	766,7084464	484,3954141	184,5137402	0,121869661	FALSE	480,3233759	0,082686212	480,3233759	537,0138568	224,76339	0,148454192	FALSE	35,5%	498,9401295	258,8335703	0,170957238	FALSE	33,0%
5242	1	608,3463142	Non-Empty	516,7333512	194,8473325	0	0	TRUE	190,8992128	0	201,2295971	188,872378	0	0	TRUE	31,0%	150,2973247	0	0	TRUE	24,7%
5242	2	608,3463142	Non-Empty	566,7190454	231,8448226	0	0	TRUE	214,9084988	0	220,6953449	207,1427623	0	0	TRUE	34,1%	229,0244948	0	0	TRUE	37,6%
5242	3	608,3463142	Non-Empty	478,7076146	181,6541591	0	0	TRUE	202,5386027	0	186,4213722	212,3311739	0	0	TRUE	34,9%	229,0244948	0	0	TRUE	37,6%
5243	1	947,9223833	Non-Empty	898,5396923	374,2501689	0	0	TRUE	361,8427172	0	342,9524303	317,1139525	0	0	TRUE	33,5%	255,6195191	0	0	TRUE	27,0%
5243	2	947,9223833	Non-Empty	851,6495816	322,893032	0	0	TRUE	306,018554	0	325,0555276	300,5654255	0	0	TRUE	31,7%	372,7784654	0	0	TRUE	39,3%
5243	3	947,9223833	Non-Empty	733,3793245	250,7791824	0	0	TRUE	280,0611121	0	279,9144254	330,2430054	0	0	TRUE	34,8%	319,5243989	0	0	TRUE	33,7%
5244	1	1000,037427	Non-Empty	837,2649738	301,8688764	0	0	TRUE	307,3511927	0	319,2530735	307,9910123	0	0	TRUE	30,8%	354,8519902	0	0	TRUE	35,5%
5244	2	1000,037427	Non-Empty	919,0973312	375,5355346	0	0	TRUE	372,8521515	0	350,4561364	338,0933472	0	0	TRUE	33,8%	311,8396278	0	0	TRUE	31,2%
5244	3	1000,037427	Non-Empty	866,3103629	322,633016	0	0	TRUE	319,8340828	0	330,3282171	353,9530676	0	0	TRUE	35,4%	333,345809	0	0	TRUE	33,3%
5245	1	902,1735929	Non-Empty	816,3761237	312,8099869	0	0	TRUE	325,3489553	0	300,5575655	294,1831328	0	0	TRUE	32,6%	304,2213278	0	0	TRUE	33,7%
5245	2	902,1735929	Non-Empty	811,4452118	288,5392549	0	0	TRUE	281,7384032	0	298,7421978	292,4062667	0	0	TRUE	32,4%	335,6924997	0	0	TRUE	37,2%
5245	3	902,1735929	Non-Empty	822,6675734	300,8243512	0	0	TRUE	295,0862344	0	302,8738297	315,5841934	0	0	TRUE	35,0%	262,2597654	0	0	TRUE	29,1%
5246	1	639,8417582	Non-Empty	534,8022606	226,0797336	0	0	TRUE	237,0436397	0	214,0100555	201,5112029	0	0	TRUE	31,5%	208,3205724	0	0	TRUE	32,6%
5246	2	639,8417582	Non-Empty	532,806601	216,2979458	0	0	TRUE	219,4757238	0	213,2163905	200,7592469	0	0	TRUE	31,4%	193,4405315	0	0	TRUE	30,2%
5246	3	639,8417582	Non-Empty	531,2921961	197,4640788	0	0	TRUE	183,3223947	0	212,6103621	237,5713083	0	0	TRUE	37,1%	238,0806542	0	0	TRUE	37,2%
5247	1	591,1201578	Non-Empty	520,2360345	182,0062926	0	0	TRUE	181,8487391	0	191,5623074	187,1960115	0	0	TRUE	31,7%	189,461589	0	0	TRUE	32,1%
5247	2	591,1201578	Non-Empty	543,8292696	211,2432797	0	0	TRUE	216,7294781	0	200,2498536	195,6855417	0	0	TRUE	33,1%	159,1477348	0	0	TRUE	26,9%
5247	3	591,1201578	Non-Empty	541,2714186	197,8705855	0	0	TRUE	192,5419407	0	199,3079968	208,2386046	0	0	TRUE	35,2%	242,510834	0	0	TRUE	41,0%
5248	1	666,6200625	Non-Empty	550,6143079	207,4336365	0	0	TRUE	210,7496134	0	215,1388496	198,9564037	0	0	TRUE	29,8%	249,0668365	0	0	TRUE	37,4%
5248	2	666,6200625	Non-Empty	639,6391729	270,627849	0	0	TRUE	248,1131734	0	249,923102	231,1242329	0	0	TRUE	34,7%	205,1138654	0	0	TRUE	30,8%
5248	3	666,6200625	Non-Empty	515,8565266	188,5585769	0	0	TRUE	207,7572756	0	201,5581108	236,5394259	0	0	TRUE	35,5%	212,4393606	0	0	TRUE	31,9%
5249	1	1438,453341	Empty	739,454948	492,6135753	197,2970481	0,137159157	FALSE	472,2532353	0,06566703	472,2532353	476,9915763	220,4978818	0,153288171	FALSE	33,2%	434,53278	220,9414505	0,153596536	FALSE	30,2%
5249	2	1438,453341	Empty	707,6919064	487,4951609	197,2970481	0,137159157	FALSE	493,7794481	0,06566703	493,7794481	456,5025616	220,4978818	0,153288171	FALSE	31,7%	509,4522249	220,9414505	0,153596536	FALSE	35,4%
5249	3	1438,453341	Empty	670,7495846	458,3446046	197,2970481	0,137159157	FALSE	472,4206574	0,06566703	472,4206574	504,9592028	220,4978818	0,153288171	FALSE	35,1%	494,4683359	220,9414505	0,153596536	FALSE	34,4%
5250	1	764,6987595	Non-Empty	714,695732	316,4844727	0	0	TRUE	312,8375745	0	280,501554	263,7575264	0	0	TRUE	34,5%	249,3582911	0	0	TRUE	32,6%
5250	2	764,6987595	Non-Empty	625,0801821	223,0918002	0	0	TRUE	215,6677796	0	245,3295222	230,6850247	0	0	TRUE	30,2%	216,110519	0	0	TRUE	28,3%
5250	3	764,6987595	Non-Empty	608,6159288	225,1224866	0	0	TRUE	236,1934054	0	238,8676834	270,2562084	0	0	TRUE	35,3%	299,2299494	0	0	TRUE	39,1%
5251	1	1184,265276	Empty	584,092145	371,2464946	102,32018	0,086399713	FALSE	386,5434152	0,063636589	386,5434152	359,3778441	114,1888304	0,096421666	FALSE	30,3%	317,4319298	156,1347448	0,131841022	FALSE	26,8%
5251	2	1184,265276	Empty	651,4780971	406,5080545	102,32018	0,086399713	FALSE	389,680583	0,063636589	389,680583	400,8387992	114,1888304	0,096421666	FALSE	33,8%	427,3122132	156,1347448	0,131841022	FALSE	36,1%
5251	3	1184,265276	Empty	633,1227475	406,5107274	102,32018	0,086399713	FALSE	408,0412783	0,063636589	408,0412783	424,0486331	114,1888304	0,096421666	FALSE	35,8%	439,5211335	156,1347448	0,131841022	FALSE	37,1%
5252	1	1445,418246	Empty	734,8953607	448,6624493	150,6288881	0,104211282	FALSE	458,714974	0,014220326	458,714974	440,7941172	160,2017948	0,110834214	FALSE	30,5%	504,532784	197,9077572	0,136920755	FALSE	34,9%
5252	2	1445,418246	Empty	835,8223912	530,2465347	150,6288881	0,104211282	FALSE	520,9561144	0,014220326	520,9561144	501,3306829	160,2017948	0,110834214	FALSE	34,7%	463,6247205	197,9077572	0,136920755	FALSE	32,1%
5252	3	1445,418246	Empty	763,5568027	466,5092621	150,6288881	0,104211282	FALSE	465,7471578	0,014220326	465,7471578	503,293446	160,2017948	0,110834214	FALSE	34,8%	477,2607417	197,9077572	0,136920755	FALSE	33,0%
5253	1	1143,355313	Empty	532,1014528	356,4886997	152,9138817	0,133741349	FALSE	373,5402961	0,081931764	373,5402961	351,1315634	158,271018	0,138426801	FALSE	30,7%	343,0065939	206,847832	0,180912993	FALSE	30,0%
5253	2	1143,355313	Empty	594,3235483	385,0930115	152,9138817	0,133741349	FALSE	368,5268242	0,081931764	368,5268242	392,1916686	158,271018	0,138426801	FALSE	34,3%	470,0460731	206,847832	0,180912993	FALSE	41,1%
5253	3	1143,355313	Empty	594,9233605	401,7736018	152,9138817	0,133741349	FALSE	401,2881927	0,081931764	401,2881927	400,032081	158,271018	0,138426801	FALSE	35,0%	330,302646	206,847832	0,180912993	FALSE	28,9%
5254	1	1292,935624	Empty	601,0332149	398,0721037	149,9788066	0,115998665	FALSE	401,6942989	0,025163624	401,6942989	392,4523501	154,4968709	0,119493088	FALSE	30,4%	511,491016	274,4203603	0,212245958	FALSE	39,6%
5254	2	1292,935624	Empty	673,1353684	457,8441233	149,9788066	0,115998665	FALSE	449,1361845	0,025163624	449,1361845	439,5323765	154,4968709	0,119493088	FALSE	34,0%	468,8667647	274,4203603	0,212245958	FALSE	36,3%
5254	3	1292,935624	Empty	638,5169595	437,0193969	149,9788066	0,115998665	FALSE	442,1051405	0,025163624	442,1051405	460,9508973	154,4968709	0,119493088	FALSE	35,7%	312,5778431	274,4203603	0,212245958	FALSE	24,2%
5255	1	869,1770798	Non-Empty	613,5445696	291,5338796	0	0	TRUE	292,2063762	0	290,2629789	268,1132825	0	0	TRUE	30,8%	295,3514349	0	0	TRUE	34,0%
5255	2	869,1770798	Non-Empty	671,1095437	332,2738431	0	0	TRUE	316,1213291	0	317,496503	293,2686419	0	0	TRUE	33,7%	270,0355976	0	0	TRUE	31,1%
5255	3	869,1770798	Non-Empty	552,5725264	245,3693571	0	0	TRUE	260,8493744	0	261,4175978	307,7951553	0	0	TRUE	35,4%	303,7900473	0	0	TRUE	35,0%
5256	1	617,6430119	Non-Empty	503,5070664	180,315079	0	0	TRUE	170,354728	0	199,6918053	190,5781093	0	0	TRUE	30,9%	182,0421509	0	0	TRUE	29,5%
5256	2	617,6430119	Non-Empty	530,5999438	237,475923	0	0	TRUE	257,5835386	0	210,4368891	200,8328002	0	0	TRUE	32,5%	227,5526886	0	0	TRUE	36,8%
5256	3	617,6430119	Non-Empty	523,230911	199,8520099	0	0	TRUE													

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5271	1	961,2036462	Non-Empty	801,4157492	305,8882746	0	0	TRUE	316,653443	0	310,6041946	302,4210796	0	0	TRUE	31,5%	351,6598706	0	0	TRUE	36,6%
5271	2	961,2036462	Non-Empty	845,9050684	332,6323901	0	0	TRUE	325,6523548	0	327,8468919	319,2095043	0	0	TRUE	33,2%	304,7718878	0	0	TRUE	31,7%
5271	3	961,2036462	Non-Empty	832,7607578	322,6829816	0	0	TRUE	318,8978484	0	322,7525597	339,5730622	0	0	TRUE	35,3%	304,7718878	0	0	TRUE	31,7%
5272	1	1146,833338	Empty	579,1094845	400,2063739	158,3105255	0,138041435	FALSE	384,381437	0,065546389	384,381437	398,7075035	160,0680311	0,139573921	FALSE	34,8%	355,5183479	177,0442385	0,1543766	FALSE	31,0%
5272	2	1146,833338	Empty	496,6236344	343,6748368	158,3105255	0,138041435	FALSE	353,8042129	0,065546389	353,8042129	341,9173312	160,0680311	0,139573921	FALSE	29,8%	389,9233493	177,0442385	0,1543766	FALSE	34,0%
5272	3	1146,833338	Empty	560,3347823	402,9521695	158,3105255	0,138041435	FALSE	408,6477304	0,065546389	408,6477304	406,2085455	160,0680311	0,139573921	FALSE	35,4%	401,3916831	177,0442385	0,1543766	FALSE	35,0%
5273	1	1039,173197	Empty	612,3651463	408,0679032	100,0122686	0,096242156	FALSE	394,9851798	0,010281746	394,9851798	359,0322535	124,4757452	0,119783445	FALSE	34,5%	296,9066277	186,601371	0,179567152	FALSE	28,6%
5273	2	1039,173197	Empty	520,8067512	331,1855049	100,0122686	0,096242156	FALSE	332,7787785	0,010281746	332,7787785	305,3511825	124,4757452	0,119783445	FALSE	29,4%	432,9888321	186,601371	0,179567152	FALSE	41,7%
5273	3	1039,173197	Empty	479,644859	299,9197889	100,0122686	0,096242156	FALSE	311,4092386	0,010281746	311,4092386	374,789761	124,4757452	0,119783445	FALSE	36,1%	309,2777372	186,601371	0,179567152	FALSE	29,8%
5274	1	1107,823382	Empty	599,9616476	385,0591865	122,7953278	0,110843777	FALSE	375,3017794	0,046599112	375,3017794	351,421011	133,6117303	0,120607429	FALSE	31,7%	306,9872023	170,6356115	0,154027812	FALSE	27,7%
5274	2	1107,823382	Empty	622,4809988	406,6190584	122,7953278	0,110843777	FALSE	395,902172	0,046599112	395,902172	364,6114761	133,6117303	0,120607429	FALSE	32,9%	440,459899	170,6356115	0,154027812	FALSE	39,8%
5274	3	1107,823382	Empty	500,815898	316,1451374	122,7953278	0,110843777	FALSE	336,6194308	0,046599112	336,6194308	391,7908952	133,6117303	0,120607429	FALSE	35,4%	360,376281	170,6356115	0,154027812	FALSE	32,5%
5275	1	1111,225637	Empty	573,6099764	388,5486391	119,6382176	0,107663299	FALSE	406,4867722	0,098339536	406,4867722	362,3042458	145,8826109	0,131280818	FALSE	32,6%	322,6138947	185,5729619	0,166998453	FALSE	29,0%
5275	2	1111,225637	Empty	547,0547326	338,9633211	119,6382176	0,107663299	FALSE	333,8713799	0,098339536	333,8713799	345,5313897	145,8826109	0,131280818	FALSE	31,1%	477,9465107	185,5729619	0,166998453	FALSE	43,0%
5275	3	1111,225637	Empty	599,5593935	383,7136772	119,6382176	0,107663299	FALSE	370,8674853	0,098339536	370,8674853	403,390002	145,8826109	0,131280818	FALSE	36,3%	310,665232	185,5729619	0,166998453	FALSE	28,0%
5276	1	1197,194942	Empty	710,8637666	483,7325892	95,88167729	0,080088609	FALSE	422,4374061	0,023070075	422,4374061	411,2332867	97,64511522	0,081561583	FALSE	34,3%	348,0217855	160,8566164	0,134361256	FALSE	29,1%
5276	2	1197,194942	Empty	642,3775942	378,3961016	95,88167729	0,080088609	FALSE	380,2506032	0,023070075	380,2506032	371,6141711	97,64511522	0,081561583	FALSE	31,0%	473,3096283	160,8566164	0,134361256	FALSE	39,5%
5276	3	1197,194942	Empty	641,4615643	385,0662514	95,88167729	0,080088609	FALSE	394,5069329	0,023070075	394,5069329	414,3474844	97,64511522	0,081561583	FALSE	34,6%	375,8635284	160,8566164	0,134361256	FALSE	31,4%
5277	1	988,1897596	Empty	489,9518375	322,7213672	124,4314846	0,125918614	FALSE	320,6118761	0,035991364	320,6118761	307,7456196	155,1429274	0,156997101	FALSE	31,1%	410,8204619	195,964888	0,198306941	FALSE	41,6%
5277	2	988,1897596	Empty	524,596805	360,4263982	124,4314846	0,125918614	FALSE	361,3769707	0,035991364	361,3769707	329,5066094	155,1429274	0,156997101	FALSE	33,3%	288,6846489	195,964888	0,198306941	FALSE	29,2%
5277	3	988,1897596	Empty	469,0040551	305,0419943	124,4314846	0,125918614	FALSE	306,2009128	0,035991364	306,2009128	350,9375306	155,1429274	0,156997101	FALSE	35,5%	288,6846489	195,964888	0,198306941	FALSE	29,2%
5278	1	854,457148	Non-Empty	702,4869402	296,8625469	0	0	TRUE	276,3429171	0	298,6633087	290,1009353	0	0	TRUE	34,0%	300,2146736	0	0	TRUE	35,1%
5278	2	854,457148	Non-Empty	656,9765348	268,3235371	0	0	TRUE	264,7753028	0	279,3144959	271,3068334	0	0	TRUE	31,8%	292,5168615	0	0	TRUE	34,2%
5278	3	854,457148	Non-Empty	650,3079634	289,271064	0	0	TRUE	313,3389281	0	276,4793434	293,0493793	0	0	TRUE	34,3%	261,7256129	0	0	TRUE	30,6%
5279	1	903,1908242	Non-Empty	842,9643279	303,3505441	0	0	TRUE	289,5780911	0	306,9105892	292,0904931	0	0	TRUE	32,3%	311,0990617	0	0	TRUE	34,4%
5279	2	903,1908242	Non-Empty	880,3541502	333,2971017	0	0	TRUE	312,0813842	0	320,5236592	305,0462152	0	0	TRUE	33,8%	301,0636081	0	0	TRUE	33,3%
5279	3	903,1908242	Non-Empty	757,3963389	266,5431784	0	0	TRUE	301,5313489	0	275,7565758	306,0541159	0	0	TRUE	33,9%	291,0281545	0	0	TRUE	32,2%
5280	1	1405,438998	Empty	711,0188731	485,8041486	212,933884	0,151507027	FALSE	483,8323439	0,014860648	483,8323439	480,844931	213,1798311	0,151682023	FALSE	34,2%	484,0956549	334,7389366	0,238173935	FALSE	34,4%
5280	2	1405,438998	Empty	655,65238	435,1509261	212,933884	0,151507027	FALSE	437,8923918	0,014860648	437,8923918	443,4019059	213,1798311	0,151682023	FALSE	31,5%	562,1755992	334,7389366	0,238173935	FALSE	40,0%
5280	3	1405,438998	Empty	708,4965041	484,4839234	212,933884	0,151507027	FALSE	483,7142624	0,014860648	483,7142624	481,1921611	213,1798311	0,151682023	FALSE	34,2%	359,167744	334,7389366	0,238173935	FALSE	25,6%
5281	1	561,6297212	Non-Empty	559,6683145	211,470158	0	0	TRUE	204,9227236	0	198,1154341	194,1318087	0	0	TRUE	34,6%	189,2447974	0	0	TRUE	33,7%
5281	2	561,6297212	Non-Empty	498,8635447	167,7621623	0	0	TRUE	178,3115022	0	176,5913223	173,0404951	0	0	TRUE	30,8%	152,6167721	0	0	TRUE	27,2%
5281	3	561,6297212	Non-Empty	528,0500286	182,3974009	0	0	TRUE	178,3954955	0	186,9229648	194,4574174	0	0	TRUE	34,6%	219,7681518	0	0	TRUE	39,1%
5282	1	921,8255276	Non-Empty	790,314009	273,0033022	0	0	TRUE	291,4440674	0	288,0619216	280,9098489	0	0	TRUE	30,5%	283,6386239	0	0	TRUE	30,8%
5282	2	921,8255276	Non-Empty	890,5472032	348,5679988	0	0	TRUE	342,3402664	0	324,5959563	316,5368163	0	0	TRUE	34,3%	273,508673	0	0	TRUE	29,7%
5282	3	921,8255276	Non-Empty	848,2187311	300,2542265	0	0	TRUE	288,0411938	0	309,1676408	324,3788623	0	0	TRUE	35,2%	364,6782307	0	0	TRUE	39,6%
5283	1	1359,54601	Empty	613,7881182	408,1962908	197,9958171	0,145633774	FALSE	404,4700838	0,084904858	404,4700838	438,7783998	253,5835212	0,186520735	FALSE	32,3%	485,5521466	293,8089847	0,216108158	FALSE	35,7%
5283	2	1359,54601	Empty	643,0968093	434,7246917	197,9958171	0,145633774	FALSE	428,2181944	0,084904858	428,2181944	459,7302878	253,5835212	0,186520735	FALSE	33,8%	453,1820035	293,8089847	0,216108158	FALSE	33,3%
5283	3	1359,54601	Empty	708,2579441	516,625028	197,9958171	0,145633774	FALSE	526,8577323	0,084904858	526,8577323	461,0373239	253,5835212	0,186520735	FALSE	33,9%	420,8118604	293,8089847	0,216108158	FALSE	31,0%
5284	1	853,2406705	Non-Empty	638,5206371	228,8302075	0	0	TRUE	232,873664	0	260,1225964	260,3893109	0	0	TRUE	30,5%	243,7830487	0	0	TRUE	28,6%
5284	2	853,2406705	Non-Empty	714,967357	298,190276	0	0	TRUE	295,1470809	0	291,2657077	291,5643546	0	0	TRUE	34,2%	313,4353484	0	0	TRUE	36,7%
5284	3	853,2406705	Non-Empty	740,9543345	326,2201871	0	0	TRUE	325,2199256	0	301,8523664	301,2870051	0	0	TRUE	35,3%	296,0222735	0	0	TRUE	34,7%
5285	1	773,1495249	Non-Empty	699,2781037	283,3948303	0	0	TRUE	294,3884982	0	263,2445743	253,771778	0	0	TRUE	32,8%	244,1524816	0	0	TRUE	31,6%
5285	2	773,1495249	Non-Empty	679,124186	244,4556542	0	0	TRUE	236,6640638	0	255,6575936	246,4578131	0	0	TRUE	31,9%	274,6715418	0	0	TRUE	35,5%
5285	3	773,1495249	Non-Empty	675,3780592	245,2990404	0	0	TRUE	242,0969629	0	254,247357	272,9199339	0	0	TRUE	35,3%	254,3255016	0	0	TRUE	32,9%
5286	1	800,8005156	Non-Empty	650,0940075	257,9649122	0	0	TRUE	258,6668671	0	263,0209076	247,1519253	0	0	TRUE	30,9%	273,6913155	0	0	TRUE	34,2%
5286	2	800,8005156	Non-Empty	674,3461735	303,8157431	0	0	TRUE	326,1163629	0	272,833068	256,3720834	0	0	TRUE	32,0%	253,4178847	0	0	TRUE	31,6%
5286	3	800,8005156	Non-Empty	654,8534852	239,0198603	0	0	TRUE	216,0172856	0	264,9465401	297,276507	0	0	TRUE	37,1%	273,6913155	0	0	TRUE	34,2%
5287	1	1000,812499	Empty	446,2218301	293,7300014	115,4417166	0,115347997	FALSE	313,488												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5302	1	1014,436785	Empty	528,6268534	351,1038531	140,6554095	0,138653696	FALSE	341,1240413	0,06807717	341,1240413	336,5138756	166,3308841	0,163963774	FALSE	33,2%	288,1922685	181,0754195	0,178498475	FALSE	28,4%
5302	2	1014,436785	Empty	497,2413693	342,2099435	140,6554095	0,138653696	FALSE	354,7217064	0,06807717	354,7217064	316,5344689	166,3308841	0,163963774	FALSE	31,2%	322,7753407	181,0754195	0,178498475	FALSE	31,8%
5302	3	1014,436785	Empty	491,1981282	321,1229885	140,6554095	0,138653696	FALSE	318,5910374	0,06807717	318,5910374	361,3884406	166,3308841	0,163963774	FALSE	35,6%	403,4691759	181,0754195	0,178498475	FALSE	39,8%
5303	1	781,2885884	Non-Empty	710,7355303	326,5975287	0	0	TRUE	325,0143497	0	287,8709554	268,5846736	0	0	TRUE	34,4%	356,0302428	0	0	TRUE	45,6%
5303	2	781,2885884	Non-Empty	592,8320857	223,7567073	0	0	TRUE	237,2361515	0	240,116234	224,0293406	0	0	TRUE	28,7%	217,5740373	0	0	TRUE	27,8%
5303	3	781,2885884	Non-Empty	625,38544	230,9343523	0	0	TRUE	219,0380872	0	253,301399	288,6745742	0	0	TRUE	36,9%	207,6843083	0	0	TRUE	26,6%
5304	1	1353,120135	Empty	686,975555	426,4432448	162,777158	0,120297639	FALSE	423,6776092	0,03193976	423,6776092	438,8947059	166,3616638	0,122946706	FALSE	32,4%	467,1486179	226,2779165	0,167226775	FALSE	34,5%
5304	2	1353,120135	Empty	706,8543289	453,8009167	162,777158	0,120297639	FALSE	458,5141789	0,03193976	458,5141789	451,5948502	166,3616638	0,122946706	FALSE	33,4%	483,2571909	226,2779165	0,167226775	FALSE	35,7%
5304	3	1353,120135	Empty	732,5902741	472,8759731	162,777158	0,120297639	FALSE	470,9283465	0,03193976	470,9283465	462,6305785	166,3616638	0,122946706	FALSE	34,2%	402,7143258	226,2779165	0,167226775	FALSE	29,8%
5305	1	992,0858467	Non-Empty	801,4584228	288,086539	0	0	TRUE	316,2977476	0	303,8462571	297,3708573	0	0	TRUE	30,0%	291,1556289	0	0	TRUE	29,3%
5305	2	992,0858467	Non-Empty	926,0962277	359,1740793	0	0	TRUE	333,8350233	0	351,0985281	343,6161145	0	0	TRUE	34,6%	334,2897962	0	0	TRUE	33,7%
5305	3	992,0858467	Non-Empty	889,2804735	344,8252284	0	0	TRUE	341,9530758	0	337,1410615	351,0988749	0	0	TRUE	35,4%	366,6404216	0	0	TRUE	37,0%
5306	1	962,9352154	Empty	479,6610664	314,1731323	105,3982164	0,109455148	FALSE	315,3783645	0,071542465	315,3783645	301,3836828	107,77909	0,111927665	FALSE	31,3%	306,3884776	139,7001046	0,145077366	FALSE	31,8%
5306	2	962,9352154	Empty	511,8080841	332,2958774	105,3982164	0,109455148	FALSE	319,4768371	0,071542465	319,4768371	321,5825008	107,77909	0,111927665	FALSE	33,4%	273,5611407	139,7001046	0,145077366	FALSE	28,4%
5306	3	962,9352154	Empty	471,5455638	316,4662057	105,3982164	0,109455148	FALSE	328,0800138	0,071542465	328,0800138	339,9690318	107,77909	0,111927665	FALSE	35,3%	382,985597	139,7001046	0,145077366	FALSE	39,8%
5307	1	750,9607517	Non-Empty	684,028278	297,9037587	0	0	TRUE	302,489906	0	267,1105642	256,7956437	0	0	TRUE	34,2%	247,6572692	0	0	TRUE	33,0%
5307	2	750,9607517	Non-Empty	604,4615708	212,7170993	0	0	TRUE	211,6832945	0	236,0400533	226,9249725	0	0	TRUE	30,2%	295,5909342	0	0	TRUE	39,4%
5307	3	750,9607517	Non-Empty	634,6029028	240,3398937	0	0	TRUE	236,7875512	0	247,8101342	267,2401355	0	0	TRUE	35,6%	207,7125483	0	0	TRUE	27,7%
5308	1	766,4779401	Non-Empty	711,4483935	258,6298474	0	0	TRUE	255,2191312	0	257,8659528	254,8011648	0	0	TRUE	33,2%	301,6987637	0	0	TRUE	39,4%
5308	2	766,4779401	Non-Empty	698,1259305	248,4171683	0	0	TRUE	248,116236	0	253,0371984	250,029801	0	0	TRUE	32,6%	230,850516	0	0	TRUE	26,6%
5308	3	766,4779401	Non-Empty	705,1271057	259,4309244	0	0	TRUE	263,1425729	0	255,5747889	261,6469743	0	0	TRUE	34,1%	260,9286605	0	0	TRUE	34,0%
5309	1	885,4120105	Non-Empty	807,1628941	299,9776167	0	0	TRUE	290,5321821	0	300,4549923	294,655118	0	0	TRUE	33,3%	321,9680038	0	0	TRUE	36,4%
5309	2	885,4120105	Non-Empty	791,4279916	284,3382081	0	0	TRUE	274,9882674	0	294,5978971	288,911086	0	0	TRUE	32,6%	251,537503	0	0	TRUE	28,4%
5309	3	885,4120105	Non-Empty	780,0406533	301,0961857	0	0	TRUE	319,891561	0	290,3591211	301,8458065	0	0	TRUE	34,1%	311,9065037	0	0	TRUE	35,2%
5310	1	1065,525926	Empty	520,8475341	362,7268293	140,0419162	0,131429853	FALSE	357,8211558	0,031680909	357,8211558	375,3719987	140,9517237	0,132283711	FALSE	35,2%	310,7783951	169,5964105	0,159166855	FALSE	29,2%
5310	2	1065,525926	Empty	420,2971449	284,5703801	140,0419162	0,131429853	FALSE	302,0586465	0,031680909	302,0586465	302,9058774	140,9517237	0,132283711	FALSE	28,4%	366,274537	169,5964105	0,159166855	FALSE	34,4%
5310	3	1065,525926	Empty	584,0263405	418,2287165	140,0419162	0,131429853	FALSE	405,6461237	0,031680909	405,6461237	387,2480498	140,9517237	0,132283711	FALSE	36,3%	388,4729938	169,5964105	0,159166855	FALSE	36,5%
5311	1	1071,645672	Empty	515,6454471	331,7070215	133,5696086	0,124639713	FALSE	325,0550597	0,056590695	325,0550597	348,7899703	143,8585964	0,134240823	FALSE	32,5%	387,6165195	183,0978218	0,17085668	FALSE	36,2%
5311	2	1071,645672	Empty	515,2227463	345,9408457	133,5696086	0,124639713	FALSE	353,945409	0,056590695	353,945409	348,5040495	143,8585964	0,134240823	FALSE	32,5%	296,4126326	183,0978218	0,17085668	FALSE	27,7%
5311	3	1071,645672	Empty	572,6368698	393,9978044	133,5696086	0,124639713	FALSE	392,6452029	0,056590695	392,6452029	374,3516518	143,8585964	0,134240823	FALSE	34,9%	387,6165195	183,0978218	0,17085668	FALSE	36,2%
5312	1	1213,050789	Empty	592,7808499	380,6388262	157,1794501	0,129573676	FALSE	375,6252686	0,048723752	375,6252686	362,1660673	195,3277832	0,161021933	FALSE	29,9%	412,9534599	295,0604565	0,243238337	FALSE	34,0%
5312	2	1213,050789	Empty	691,2920188	477,9471868	157,1794501	0,129573676	FALSE	471,7308207	0,048723752	471,7308207	422,3525639	195,3277832	0,161021933	FALSE	34,8%	322,6198906	295,0604565	0,243238337	FALSE	26,6%
5312	3	1213,050789	Empty	550,3633178	354,4647755	157,1794501	0,129573676	FALSE	365,6946992	0,048723752	365,6946992	428,5321574	195,3277832	0,161021933	FALSE	35,3%	477,477438	295,0604565	0,243238337	FALSE	39,4%
5313	1	1576,583791	Empty	805,8187996	556,1193899	212,8122954	0,134983181	FALSE	560,8747197	0,043900204	560,8747197	519,8221543	249,109531	0,158005894	FALSE	33,0%	538,3456846	230,5860007	0,146256737	FALSE	34,1%
5313	2	1576,583791	Empty	777,9983017	515,450037	212,8122954	0,134983181	FALSE	507,3565118	0,043900204	507,3565118	501,87555	249,109531	0,158005894	FALSE	31,8%	519,119053	230,5860007	0,146256737	FALSE	32,9%
5313	3	1576,583791	Empty	756,1309078	505,0143637	212,8122954	0,134983181	FALSE	508,3525591	0,043900204	508,3525591	554,8860863	249,109531	0,158005894	FALSE	35,2%	519,119053	230,5860007	0,146256737	FALSE	32,9%
5314	1	856,7656664	Non-Empty	727,2133222	294,6967545	0	0	TRUE	317,2374294	0	280,4090737	268,9018074	0	0	TRUE	31,4%	297,6133367	0	0	TRUE	34,7%
5314	2	856,7656664	Non-Empty	758,1030487	286,9395896	0	0	TRUE	270,8333731	0	292,3199661	280,3239074	0	0	TRUE	32,7%	279,5761648	0	0	TRUE	32,6%
5314	3	856,7656664	Non-Empty	736,6210234	275,1293224	0	0	TRUE	268,6948639	0	284,0366266	307,5399516	0	0	TRUE	35,9%	279,5761648	0	0	TRUE	32,6%
5315	1	878,4269313	Non-Empty	843,3265481	331,3742934	0	0	TRUE	325,3768741	0	309,1446809	294,7225811	0	0	TRUE	33,6%	222,3865649	0	0	TRUE	25,3%
5315	2	878,4269313	Non-Empty	793,6533518	289,800283	0	0	TRUE	291,9020495	0	290,9355963	277,3629798	0	0	TRUE	31,6%	366,9378321	0	0	TRUE	41,8%
5315	3	878,4269313	Non-Empty	759,3115376	257,252355	0	0	TRUE	261,1480077	0	278,3466541	306,3413704	0	0	TRUE	34,9%	289,1025344	0	0	TRUE	32,9%
5316	1	1479,945635	Empty	749,5855483	463,2779979	155,5203695	0,105085191	FALSE	465,9432591	0,025828484	465,9432591	459,7833024	180,7388901	0,122125358	FALSE	31,1%	517,0894388	255,4829737	0,172629972	FALSE	34,9%
5316	2	1479,945635	Empty	819,5203904	530,5557657	155,5203695	0,105085191	FALSE	530,5639526	0,025828484	530,5639526	502,6801709	180,7388901	0,122125358	FALSE	34,0%	427,9360873	255,4829737	0,172629972	FALSE	28,9%
5316	3	1479,945635	Empty	777,7581315	486,1118717	155,5203695	0,105085191	FALSE	483,4384236	0,025828484	483,4384236	517,482162	180,7388901	0,122125358	FALSE	35,0%	534,9201091	255,4829737	0,172629972	FALSE	36,1%
5317	1	1170,101751	Empty	545,6498514	400,3126386	145,3372128	0,124209038	FALSE	433,0704563	0,171181482	433,0704563	356,0261696	189,6236818	0,162057429	FALSE	30,4%	460,1523741	168,6642984	0,144144984	FALSE	39,3%
5317	2	1170,101751	Empty	561,7573152	374,53781	145,3372128	0,124209038	FALSE	365,4133353	0,171181482	365,4133353	366,535984	189,6236818	0,162057429	FALSE	31,3%	394,4163207	168,6642984	0,144144984	FALSE	33,7%
5317	3	1170,101751	Empty	596,979676	395,2513026	145,3372128	0,124209038	FALSE	371,6179597	0,171181482	371,6179597	447,5395977	189,6236818	0,1620574							

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5333	1	516,9812252	Non-Empty	477,6921596	197,9040721	0	0	TRUE	188,0042893	0	186,1520345	172,4912055	0	0	TRUE	33,4%	177,886013	0	0	TRUE	34,4%
5333	2	516,9812252	Non-Empty	458,4026949	174,6959444	0	0	TRUE	160,8774986	0	178,6351159	165,5259185	0	0	TRUE	32,0%	144,5323855	0	0	TRUE	28,0%
5333	3	516,9812252	Non-Empty	390,5512847	144,3812087	0	0	TRUE	168,0994373	0	152,1940748	178,9641012	0	0	TRUE	34,6%	194,5628267	0	0	TRUE	37,6%
5334	1	1437,346757	Empty	767,7917743	481,1348538	140,5345656	0,097773599	FALSE	484,5186669	0,044580844	484,5186669	467,2505195	155,8804308	0,108450122	FALSE	32,5%	431,2040271	184,2684085	0,128200386	FALSE	30,0%
5334	2	1437,346757	Empty	755,6941284	475,2341915	140,5345656	0,097773599	FALSE	484,8149884	0,044580844	484,8149884	459,8883263	155,8804308	0,108450122	FALSE	32,0%	542,9976638	184,2684085	0,128200386	FALSE	37,8%
5334	3	1437,346757	Empty	783,9830555	480,9777118	140,5345656	0,097773599	FALSE	468,0131018	0,044580844	468,0131018	510,2079113	155,8804308	0,108450122	FALSE	35,5%	463,1450662	184,2684085	0,128200386	FALSE	32,2%
5335	1	902,6642823	Empty	464,6364509	305,1234276	84,63508874	0,093761424	FALSE	311,4500591	0,129599159	311,4500591	276,9205753	99,40415334	0,11012306	FALSE	30,7%	225,6660706	150,6586581	0,16690442	FALSE	25,0%
5335	2	902,6642823	Empty	510,6771697	318,7504641	84,63508874	0,093761424	FALSE	292,6634134	0,129599159	292,6634134	304,3605713	99,40415334	0,11012306	FALSE	33,7%	365,3641143	150,6586581	0,16690442	FALSE	40,5%
5335	3	902,6642823	Empty	424,8696262	278,7903906	84,63508874	0,093761424	FALSE	298,5508097	0,129599159	298,5508097	321,3831357	99,40415334	0,11012306	FALSE	35,6%	311,6340975	150,6586581	0,16690442	FALSE	34,5%
5336	1	1673,445417	Empty	874,8566202	569,7651921	243,5502059	0,145538183	FALSE	543,7329033	0,124630393	543,7329033	589,1627782	248,3128355	0,148384186	FALSE	35,2%	610,1103081	245,7876256	0,146875197	FALSE	36,5%
5336	2	1673,445417	Empty	722,7931297	491,5198862	243,5502059	0,145538183	FALSE	539,305782	0,124630393	539,305782	486,7572566	248,3128355	0,148384186	FALSE	29,1%	522,9516927	245,7876256	0,146875197	FALSE	31,3%
5336	3	1673,445417	Empty	912,9730844	612,1603382	243,5502059	0,145538183	FALSE	590,4067313	0,124630393	590,4067313	597,5253817	248,3128355	0,148384186	FALSE	35,7%	540,3834158	245,7876256	0,146875197	FALSE	32,3%
5337	1	831,2313078	Non-Empty	723,9678623	280,0181251	0	0	TRUE	266,4046178	0	283,5611211	288,0393363	0	0	TRUE	34,7%	205,4729076	0	0	TRUE	24,7%
5337	2	831,2313078	Non-Empty	632,4995576	221,4045222	0	0	TRUE	240,6457168	0	247,7351454	251,6475693	0	0	TRUE	30,3%	345,5680718	0	0	TRUE	41,6%
5337	3	831,2313078	Non-Empty	765,7725776	329,8086605	0	0	TRUE	324,1809733	0	299,9350413	291,5444023	0	0	TRUE	35,1%	280,1903285	0	0	TRUE	33,7%
5338	1	815,7734376	Non-Empty	672,3832615	238,3457334	0	0	TRUE	254,2175168	0	253,295801	250,4824815	0	0	TRUE	30,7%	322,910319	0	0	TRUE	39,6%
5338	2	815,7734376	Non-Empty	754,0845573	286,8564025	0	0	TRUE	269,5375592	0	284,0737759	280,91861	0	0	TRUE	34,4%	203,9433594	0	0	TRUE	25,0%
5338	3	815,7734376	Non-Empty	739,0335533	290,5713016	0	0	TRUE	292,0183615	0	278,4038606	284,3723461	0	0	TRUE	34,9%	288,9197591	0	0	TRUE	35,4%
5339	1	634,9099051	Non-Empty	508,3796369	192,6785939	0	0	TRUE	187,686561	0	205,978085	197,5856041	0	0	TRUE	31,1%	236,4026243	0	0	TRUE	37,2%
5339	2	634,9099051	Non-Empty	517,8301641	229,1849291	0	0	TRUE	251,2487043	0	209,8071162	201,2586232	0	0	TRUE	31,7%	216,1395422	0	0	TRUE	34,0%
5339	3	634,9099051	Non-Empty	540,8271346	213,0463821	0	0	TRUE	195,9746398	0	219,124704	236,0656779	0	0	TRUE	37,2%	182,3677387	0	0	TRUE	28,7%
5340	1	1272,126185	Empty	676,9767413	443,7833182	147,8493047	0,116222201	FALSE	414,512473	0,114209903	414,512473	407,4492852	183,5716347	0,144303008	FALSE	32,0%	372,3296152	161,2042303	0,126720315	FALSE	29,3%
5340	2	1272,126185	Empty	672,1028994	468,6232345	147,8493047	0,116222201	FALSE	469,0661476	0,114209903	469,0661476	404,5158855	183,5716347	0,144303008	FALSE	31,8%	480,925753	161,2042303	0,126720315	FALSE	37,8%
5340	3	1272,126185	Empty	534,8142787	359,7196327	147,8493047	0,116222201	FALSE	388,5475648	0,114209903	388,5475648	460,1610147	183,5716347	0,144303008	FALSE	36,2%	418,8708171	161,2042303	0,126720315	FALSE	32,9%
5341	1	826,9875779	Non-Empty	653,4650343	231,9171774	0	0	TRUE	225,6067706	0	260,7263399	251,909432	0	0	TRUE	30,5%	311,462854	0	0	TRUE	37,7%
5341	2	826,9875779	Non-Empty	704,8476959	313,079246	0	0	TRUE	336,5482461	0	281,2275337	271,7173428	0	0	TRUE	32,9%	214,8019683	0	0	TRUE	26,0%
5341	3	826,9875779	Non-Empty	714,3871978	281,9911545	0	0	TRUE	264,8325612	0	285,0337043	303,360803	0	0	TRUE	36,7%	300,7227556	0	0	TRUE	36,4%
5342	1	1574,721783	Empty	798,2050636	569,8510505	229,8255587	0,145946771	FALSE	572,6697806	0,057572487	572,6697806	519,4280166	278,777047	0,177032572	FALSE	33,0%	434,406009	363,7990546	0,231024336	FALSE	27,6%
5342	2	1574,721783	Empty	748,5638432	521,6813757	229,8255587	0,145946771	FALSE	525,9716514	0,057572487	525,9716514	487,1242368	278,777047	0,177032572	FALSE	30,9%	651,6090135	363,7990546	0,231024336	FALSE	41,4%
5342	3	1574,721783	Empty	721,4711052	483,1893564	229,8255587	0,145946771	FALSE	476,0803507	0,057572487	476,0803507	568,1695292	278,777047	0,177032572	FALSE	36,1%	488,7067601	363,7990546	0,231024336	FALSE	31,0%
5343	1	683,3370339	Non-Empty	580,9351834	200,540577	0	0	TRUE	206,5722723	0	215,4407312	205,4083157	0	0	TRUE	30,1%	265,7421798	0	0	TRUE	38,9%
5343	2	683,3370339	Non-Empty	671,7168643	281,1206112	0	0	TRUE	276,9506597	0	249,107261	237,5070983	0	0	TRUE	34,8%	159,4453079	0	0	TRUE	23,3%
5343	3	683,3370339	Non-Empty	589,9638911	201,6758457	0	0	TRUE	199,8141019	0	218,7890417	240,4216198	0	0	TRUE	35,2%	258,1495461	0	0	TRUE	37,8%
5344	1	932,3860977	Empty	392,8011672	269,7190135	118,0573884	0,126618564	FALSE	304,5768439	0,172607754	304,5768439	257,9829261	129,7934758	0,139205718	FALSE	27,7%	377,3943729	141,9265615	0,152218659	FALSE	40,5%
5344	2	932,3860977	Empty	502,5361154	323,7597469	118,0573884	0,126618564	FALSE	302,9233625	0,172607754	302,9233625	330,0543592	129,7934758	0,139205718	FALSE	35,4%	244,1963589	141,9265615	0,152218659	FALSE	26,2%
5344	3	932,3860977	Empty	510,8687674	338,9073373	118,0573884	0,126618564	FALSE	324,8858913	0,172607754	324,8858913	344,3488124	129,7934758	0,139205718	FALSE	36,9%	310,7953659	141,9265615	0,152218659	FALSE	33,3%
5345	1	1356,954705	Empty	708,0369871	460,3504793	150,1780451	0,11067285	FALSE	479,6136414	0,088591171	479,6136414	425,6360311	184,8924933	0,136255464	FALSE	31,4%	522,9929591	152,6364022	0,112484523	FALSE	38,5%
5345	2	1356,954705	Empty	740,690057	466,7907379	150,1780451	0,11067285	FALSE	459,8410886	0,088591171	459,8410886	445,2654058	184,8924933	0,136255464	FALSE	32,8%	438,18329	152,6364022	0,112484523	FALSE	32,3%
5345	3	1356,954705	Empty	709,0766702	429,8134875	150,1780451	0,11067285	FALSE	417,4999746	0,088591171	417,4999746	486,053268	184,8924933	0,136255464	FALSE	35,8%	395,7784555	152,6364022	0,112484523	FALSE	29,2%
5346	1	879,5655277	Non-Empty	803,9975843	293,3932608	0	0	TRUE	277,6369535	0	299,1268115	280,6456821	0	0	TRUE	31,9%	308,7836427	0	0	TRUE	35,1%
5346	2	879,5655277	Non-Empty	847,6311776	338,5459069	0	0	TRUE	324,3086525	0	315,3606632	295,8765482	0	0	TRUE	33,6%	243,2840821	0	0	TRUE	27,7%
5346	3	879,5655277	Non-Empty	712,4808145	247,62636	0	0	TRUE	277,6199217	0	265,078053	303,0432974	0	0	TRUE	34,5%	327,4978029	0	0	TRUE	37,2%
5347	1	1336,375752	Empty	614,1155984	415,8345798	162,9350035	0,121923047	FALSE	431,1646101	0,039822497	431,1646101	425,0704173	157,5689882	0,117907698	FALSE	31,8%	543,8738525	235,7295379	0,176394654	FALSE	40,7%
5347	2	1336,375752	Empty	619,9722668	409,7136093	162,9350035	0,121923047	FALSE	413,0660008	0,039822497	413,0660008	429,1242087	157,5689882	0,117907698	FALSE	32,1%	388,4813232	235,7295379	0,176394654	FALSE	29,1%
5347	3	1336,375752	Empty	743,1210337	510,8275628	162,9350035	0,121923047	FALSE	492,1451409	0,039822497	492,1451409	482,1811258	157,5689882	0,117907698	FALSE	36,1%	404,0205762	235,7295379	0,176394654	FALSE	30,2%
5348	1	639,8180016	Non-Empty	543,8229353	206,8584645	0	0	TRUE	192,1220087	0	216,5871524	212,6089313	0	0	TRUE	33,2%	252,5597375	0	0	TRUE	39,5%
5348	2	639,8180016	Non-Empty	497,8493801	202,4339109	0	0	TRUE	229,2464566	0	198,2773668	194,6354554	0	0	TRUE	30,4%	185,2104741	0	0	TRUE	28,9%
5348	3	639,8180016	Non-Empty	564,8297311	230,5256262	0	0	TRUE	218,4495362	0	224,9534824	232,5736149	0	0	TRUE	36,3%	202,04779	0	0	TRUE	31,6%
5349	1	1502,323998	Empty	721,7648293	464,2163856	180,8289278	0,120366131	FALSE</													

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5364	1	1042,931539	Non-Empty	813,7943104	372,6365959	0	0	TRUE	348,706987	0	369,8796687	344,6938635	0	0	TRUE	33,1%	327,7784837	0	0	TRUE	31,4%
5364	2	1042,931539	Non-Empty	810,9734411	369,6357999	0	0	TRUE	345,5262643	0	368,5975484	343,4990452	0	0	TRUE	32,9%	357,5765277	0	0	TRUE	34,3%
5364	3	1042,931539	Non-Empty	669,8481046	300,6591433	0	0	TRUE	348,6982878	0	304,454322	354,7386304	0	0	TRUE	34,0%	357,5765277	0	0	TRUE	34,3%
5365	1	1311,455843	Empty	678,1279196	429,3018423	156,0905286	0,119020804	FALSE	418,9064637	0,057000946	418,9064637	414,704049	193,8892844	0,147842785	FALSE	31,6%	401,1511989	204,4857773	0,155922732	FALSE	30,6%
5365	2	1311,455843	Empty	714,2713338	478,8942294	156,0905286	0,119020804	FALSE	481,9478235	0,057000946	481,9478235	436,8072832	193,8892844	0,147842785	FALSE	33,3%	555,4401215	204,4857773	0,155922732	FALSE	42,4%
5365	3	1311,455843	Empty	634,3486849	403,2597708	156,0905286	0,119020804	FALSE	410,6015554	0,057000946	410,6015554	459,9445104	193,8892844	0,147842785	FALSE	35,1%	354,8645221	204,4857773	0,155922732	FALSE	27,1%
5366	1	809,2881919	Non-Empty	714,7479658	266,373534	0	0	TRUE	250,3234001	0	274,6274396	276,7908472	0	0	TRUE	34,2%	303,483072	0	0	TRUE	37,5%
5366	2	809,2881919	Non-Empty	645,6677983	234,5769495	0	0	TRUE	255,8103984	0	248,0847834	250,0390983	0	0	TRUE	30,9%	229,9114182	0	0	TRUE	28,4%
5366	3	809,2881919	Non-Empty	745,8453213	308,3377084	0	0	TRUE	303,1543934	0	286,575969	282,4582465	0	0	TRUE	34,9%	275,8937018	0	0	TRUE	34,1%
5367	1	1247,687339	Empty	601,8722295	421,1490318	165,136819	0,132354328	FALSE	453,5039584	0,139166756	453,5039584	381,5067419	204,7791089	0,164126943	FALSE	30,6%	466,0037051	198,2864274	0,15892317	FALSE	37,3%
5367	2	1247,687339	Empty	647,8142378	416,3513264	165,136819	0,132354328	FALSE	397,9665392	0,139166756	397,9665392	410,6278494	204,7791089	0,164126943	FALSE	32,9%	450,9713275	198,2864274	0,15892317	FALSE	36,1%
5367	3	1247,687339	Empty	637,2352448	410,1869812	165,136819	0,132354328	FALSE	396,2168418	0,139166756	396,2168418	455,5527481	204,7791089	0,164126943	FALSE	36,5%	330,7123068	198,2864274	0,15892317	FALSE	26,5%
5368	1	757,1635249	Non-Empty	678,5997168	280,755643	0	0	TRUE	281,662327	0	263,0320457	244,1484057	0	0	TRUE	32,2%	276,0492018	0	0	TRUE	36,5%
5368	2	757,1635249	Non-Empty	681,3478926	269,5693912	0	0	TRUE	256,5416475	0	264,0972662	245,1371516	0	0	TRUE	32,4%	244,5007216	0	0	TRUE	32,3%
5368	3	757,1635249	Non-Empty	593,4681888	206,8384907	0	0	TRUE	218,9595503	0	230,034213	267,8779676	0	0	TRUE	35,4%	236,6136015	0	0	TRUE	31,3%
5369	1	962,9128782	Non-Empty	647,5534732	272,3956149	0	0	TRUE	280,481681	0	295,1455079	287,8945529	0	0	TRUE	29,9%	320,9709594	0	0	TRUE	33,3%
5369	2	962,9128782	Non-Empty	755,8534492	354,7489899	0	0	TRUE	336,8884551	0	344,5070706	336,0434308	0	0	TRUE	34,9%	311,5306371	0	0	TRUE	32,4%
5369	3	962,9128782	Non-Empty	709,2377293	335,7682734	0	0	TRUE	345,542742	0	323,2602997	338,9748945	0	0	TRUE	35,2%	330,4112817	0	0	TRUE	34,3%
5370	1	1442,367772	Empty	722,6914166	475,2993396	198,2922858	0,13747693	FALSE	466,2407189	0,098239285	466,2407189	455,2098921	252,6399777	0,175156428	FALSE	31,6%	491,3560366	244,1080526	0,169241206	FALSE	34,1%
5370	2	1442,367772	Empty	741,3679871	521,3216086	198,2922858	0,13747693	FALSE	539,6086863	0,098239285	539,6086863	466,9739168	252,6399777	0,175156428	FALSE	32,4%	475,5058418	244,1080526	0,169241206	FALSE	33,0%
5370	3	1442,367772	Empty	693,3086854	445,7467721	198,2922858	0,13747693	FALSE	436,5183151	0,098239285	436,5183151	520,1839114	252,6399777	0,175156428	FALSE	36,1%	475,5058418	244,1080526	0,169241206	FALSE	33,0%
5371	1	727,0094671	Non-Empty	707,0614588	275,2960414	0	0	TRUE	272,2470423	0	255,3402118	244,1988863	0	0	TRUE	33,6%	244,8873995	0	0	TRUE	33,7%
5371	2	727,0094671	Non-Empty	671,8945681	238,4404463	0	0	TRUE	233,7027428	0	242,6404369	232,0532441	0	0	TRUE	31,9%	214,2764745	0	0	TRUE	29,5%
5371	3	727,0094671	Non-Empty	634,2026951	213,2729794	0	0	TRUE	221,059682	0	229,0288184	250,7573367	0	0	TRUE	34,5%	267,8455932	0	0	TRUE	36,8%
5372	1	1204,396896	Empty	520,8580344	349,0667757	156,6578104	0,130071583	FALSE	349,4275919	0,068673328	349,4275919	340,6969264	164,9030306	0,136917515	FALSE	28,3%	405,3258784	213,1489883	0,176975704	FALSE	33,7%
5372	2	1204,396896	Empty	658,0120787	470,0049229	156,6578104	0,130071583	FALSE	454,1498421	0,068673328	454,1498421	430,4103574	164,9030306	0,136917515	FALSE	35,7%	382,1643997	213,1489883	0,176975704	FALSE	31,7%
5372	3	1204,396896	Empty	541,9830077	385,3251973	156,6578104	0,130071583	FALSE	400,8194618	0,068673328	400,8194618	433,2896121	164,9030306	0,136917515	FALSE	36,0%	416,9066178	213,1489883	0,176975704	FALSE	34,6%
5373	1	960,258549	Non-Empty	903,7120981	333,4924387	0	0	TRUE	301,5680217	0	336,9897664	319,4140554	0	0	TRUE	33,3%	320,086183	0	0	TRUE	33,3%
5373	2	960,258549	Non-Empty	883,5670067	341,5336909	0	0	TRUE	337,7956175	0	329,4777615	312,2938394	0	0	TRUE	32,5%	320,086183	0	0	TRUE	33,3%
5373	3	960,258549	Non-Empty	787,8651715	285,2324194	0	0	TRUE	320,8949098	0	293,7910211	328,5506541	0	0	TRUE	34,2%	320,086183	0	0	TRUE	33,3%
5374	1	1084,851328	Empty	525,8023201	341,8133057	131,280539	0,12101247	FALSE	346,7312686	0,014778774	346,7312686	325,0331339	153,2466025	0,141260465	FALSE	30,0%	358,1062636	222,9035706	0,205469233	FALSE	33,0%
5374	2	1084,851328	Empty	606,7957902	409,9366926	131,280539	0,12101247	FALSE	401,9845723	0,014778774	401,9845723	375,1005458	153,2466025	0,141260465	FALSE	34,6%	305,4435778	222,9035706	0,205469233	FALSE	28,2%
5374	3	1084,851328	Empty	518,9741498	333,1013297	131,280539	0,12101247	FALSE	336,135487	0,014778774	336,135487	384,7176483	153,2466025	0,141260465	FALSE	35,5%	421,3014866	222,9035706	0,205469233	FALSE	38,8%
5375	1	1209,739622	Empty	667,7816461	426,4018443	138,4560777	0,114451139	FALSE	425,8610838	0,022489098	425,8610838	404,6091134	159,2718807	0,131657985	FALSE	33,4%	305,6184307	258,2625634	0,213486075	FALSE	25,3%
5375	2	1209,739622	Empty	640,802727	400,0682788	138,4560777	0,114451139	FALSE	400,172872	0,022489098	400,172872	388,2625776	159,2718807	0,131657985	FALSE	32,1%	432,9594435	258,2625634	0,213486075	FALSE	35,8%
5375	3	1209,739622	Empty	623,6723724	383,2694985	138,4560777	0,114451139	FALSE	383,7056659	0,022489098	383,7056659	416,8679306	159,2718807	0,131657985	FALSE	34,5%	471,1617473	258,2625634	0,213486075	FALSE	38,9%
5376	1	665,3948289	Non-Empty	585,7629733	227,3684994	0	0	TRUE	229,6503726	0	223,0504344	210,0892415	0	0	TRUE	31,6%	208,3559565	0	0	TRUE	31,3%
5376	2	665,3948289	Non-Empty	611,9020616	246,4214517	0	0	TRUE	241,6171888	0	233,0038375	219,4642643	0	0	TRUE	33,0%	208,3559565	0	0	TRUE	31,3%
5376	3	665,3948289	Non-Empty	549,7588353	191,6048778	0	0	TRUE	194,1272674	0	209,3405569	235,841323	0	0	TRUE	35,4%	248,6829158	0	0	TRUE	37,4%
5377	1	1316,774705	Empty	606,3967794	409,3429355	166,3138654	0,126303964	FALSE	427,9982202	0,074862636	427,9982202	407,9601218	167,696679	0,127354116	FALSE	31,0%	523,8781085	199,2981559	0,151353269	FALSE	39,8%
5377	2	1316,774705	Empty	636,6041653	427,4120212	166,3138654	0,126303964	FALSE	433,9290058	0,074862636	433,9290058	428,2824739	167,696679	0,127354116	FALSE	32,5%	382,2894305	199,2981559	0,151353269	FALSE	29,0%
5377	3	1316,774705	Empty	720,9011463	480,0197485	166,3138654	0,126303964	FALSE	454,8474792	0,074862636	454,8474792	480,5321094	167,696679	0,127354116	FALSE	36,5%	410,6071661	199,2981559	0,151353269	FALSE	31,2%
5378	1	796,2023983	Non-Empty	667,0730061	243,0867482	0	0	TRUE	252,0075149	0	253,5296083	250,6183224	0	0	TRUE	31,5%	311,5574602	0	0	TRUE	39,1%
5378	2	796,2023983	Non-Empty	692,0816299	266,2670754	0	0	TRUE	273,3595453	0	263,034455	260,0140247	0	0	TRUE	32,7%	233,6680952	0	0	TRUE	29,3%
5378	3	796,2023983	Non-Empty	735,7688357	286,8485747	0	0	TRUE	270,8353382	0	279,638335	285,5700512	0	0	TRUE	35,9%	250,976843	0	0	TRUE	31,5%
5379	1	1531,663231	Empty	772,4225291	541,3855014	217,7682116	0,142177606	FALSE	542,7844823	0,033914742	542,7844823	508,805504	247,9032935	0,16185235	FALSE	33,2%	454,9494746	301,7593228	0,197014146	FALSE	29,7%
5379	2	1531,663231	Empty	733,4358745	495,7569887	217,7682116	0,142177606	FALSE	490,5141114	0,033914742	490,5141114	483,1244502	247,9032935	0,16185235	FALSE	31,5%	545,9393695	301,7593228	0,197014146	FALSE	35,6%
5379	3	1531,663231	Empty	723,1128529	494,5207409	217,7682116	0,142177606	FALSE	498,3646374	0,033914742	498,3646374	539,7332768	247,9032935	0,16185235	FALSE	35,2%	530,774387	301,7593228	0,197014146	FALSE	34,7%
5380	1	1075,539848	Empty	477,1290608	320,1842439	148,9625616	0,138500272	FALSE	337,8												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5395	1	1432,192871	Empty	790,8106894	514,7429809	164,5254797	0,114876622	FALSE	494,3590934	0,060541921	494,3590934	508,9503462	164,0271009	0,114528639	FALSE	35,5%	411,3745479	220,1114413	0,153688407	FALSE	28,7%
5395	2	1432,192871	Empty	639,0976481	410,812411	164,5254797	0,114876622	FALSE	438,2109948	0,060541921	438,2109948	411,3107898	164,0271009	0,114528639	FALSE	28,7%	533,2633029	220,1114413	0,153688407	FALSE	37,2%
5395	3	1432,192871	Empty	769,3359958	506,6374877	164,5254797	0,114876622	FALSE	499,6227825	0,060541921	499,6227825	511,9317347	164,0271009	0,114528639	FALSE	35,7%	487,5550198	220,1114413	0,153688407	FALSE	34,0%
5396	1	1062,763031	Empty	500,7148277	348,0830886	150,5358005	0,141645688	FALSE	365,118574	0,088645367	365,118574	320,0295348	178,5893542	0,168042498	FALSE	30,1%	310,4700991	188,14879	0,177037387	FALSE	29,2%
5396	2	1062,763031	Empty	560,0992931	380,3937476	150,5358005	0,141645688	FALSE	370,3554266	0,088645367	370,3554266	357,9848375	178,5893542	0,168042498	FALSE	33,7%	405,9993603	188,14879	0,177037387	FALSE	38,2%
5396	3	1062,763031	Empty	510,9505841	334,2861953	150,5358005	0,141645688	FALSE	327,2890309	0,088645367	327,2890309	384,7486591	178,5893542	0,168042498	FALSE	36,2%	346,2935721	188,14879	0,177037387	FALSE	32,6%
5397	1	1047,108845	Non-Empty	768,6088181	337,385493	0	0	TRUE	330,4079092	0	346,9269374	345,6915543	0	0	TRUE	33,0%	342,1246722	0	0	TRUE	32,7%
5397	2	1047,108845	Non-Empty	764,9746936	322,7139324	0	0	TRUE	304,6989125	0	345,2866027	344,0570608	0	0	TRUE	32,9%	352,4920865	0	0	TRUE	33,7%
5397	3	1047,108845	Non-Empty	786,2625572	387,0094197	0	0	TRUE	412,0020234	0	354,895305	357,3602301	0	0	TRUE	34,1%	352,4920865	0	0	TRUE	33,7%
5398	1	640,9786918	Non-Empty	469,8883397	160,8831377	0	0	TRUE	171,0158157	0	188,4320935	197,8438784	0	0	TRUE	30,9%	185,1716221	0	0	TRUE	28,9%
5398	2	640,9786918	Non-Empty	523,7452579	198,5314418	0	0	TRUE	192,4555055	0	210,0295051	220,520035	0	0	TRUE	34,4%	256,3914767	0	0	TRUE	40,0%
5398	3	640,9786918	Non-Empty	604,7587339	281,5641123	0	0	TRUE	277,5073706	0	242,5170932	222,6147785	0	0	TRUE	34,7%	199,415593	0	0	TRUE	31,1%
5399	1	708,9410422	Non-Empty	558,850042	198,508216	0	0	TRUE	212,164088	0	216,3877571	212,4869179	0	0	TRUE	30,0%	217,5160016	0	0	TRUE	30,7%
5399	2	708,9410422	Non-Empty	625,6362349	258,4024284	0	0	TRUE	265,1663199	0	242,2474931	237,8804783	0	0	TRUE	33,6%	281,9651872	0	0	TRUE	39,8%
5399	3	708,9410422	Non-Empty	646,4478593	252,0303978	0	0	TRUE	231,6106343	0	250,305792	258,5736461	0	0	TRUE	36,5%	209,4598534	0	0	TRUE	29,5%
5400	1	990,4556814	Non-Empty	830,5958103	330,7951353	0	0	TRUE	334,443063	0	328,9618719	317,0411056	0	0	TRUE	32,0%	284,4925893	0	0	TRUE	28,7%
5400	2	990,4556814	Non-Empty	842,192885	331,6998516	0	0	TRUE	324,6554209	0	333,5549548	321,4677465	0	0	TRUE	32,5%	389,860215	0	0	TRUE	39,4%
5400	3	990,4556814	Non-Empty	828,0127942	327,9606945	0	0	TRUE	331,3571975	0	327,9388547	351,9468293	0	0	TRUE	35,5%	316,1028771	0	0	TRUE	31,9%
5401	1	980,2992593	Empty	512,2028678	344,9145567	100,8445691	0,102871208	FALSE	357,5952691	0,086817082	357,5952691	323,4317614	122,3273644	0,124785736	FALSE	33,0%	338,0342273	110,17236	0,112386456	FALSE	34,5%
5401	2	980,2992593	Empty	474,3524409	295,4240498	100,8445691	0,102871208	FALSE	296,4646823	0,086817082	296,4646823	299,5310162	122,3273644	0,124785736	FALSE	30,6%	338,0342273	110,17236	0,112386456	FALSE	34,5%
5401	3	980,2992593	Empty	533,6510211	339,9606528	100,8445691	0,102871208	FALSE	326,2393079	0,086817082	326,2393079	357,3364817	122,3273644	0,124785736	FALSE	36,5%	304,2308046	110,17236	0,112386456	FALSE	31,0%
5402	1	985,62538	Empty	489,825716	307,936823	79,53663558	0,080696619	FALSE	311,7718967	0,0540668	311,7718967	306,6044068	79,6855769	0,080847732	FALSE	31,1%	265,7866193	149,4571386	0,151636861	FALSE	27,0%
5402	2	985,62538	Empty	525,4845813	330,9069922	79,53663558	0,080696619	FALSE	322,0533699	0,0540668	322,0533699	328,9249279	79,6855769	0,080847732	FALSE	33,4%	442,9776989	149,4571386	0,151636861	FALSE	44,9%
5402	3	985,62538	Empty	527,4869829	346,7815648	79,53663558	0,080696619	FALSE	351,8001134	0,0540668	351,8001134	350,0960453	79,6855769	0,080847732	FALSE	35,5%	276,8610618	149,4571386	0,151636861	FALSE	28,1%
5403	1	607,5825308	Non-Empty	520,3680131	182,288271	0	0	TRUE	176,6721013	0	196,9917659	190,7002995	0	0	TRUE	31,4%	217,9372121	0	0	TRUE	35,9%
5403	2	607,5825308	Non-Empty	568,4600521	228,3319186	0	0	TRUE	220,6673573	0	215,1976038	208,3243896	0	0	TRUE	34,3%	217,9372121	0	0	TRUE	35,9%
5403	3	607,5825308	Non-Empty	516,1451823	196,9623412	0	0	TRUE	210,2430722	0	195,393161	208,5581117	0	0	TRUE	34,3%	171,7081065	0	0	TRUE	28,3%
5404	1	670,054152	Non-Empty	542,818485	204,9427009	0	0	TRUE	203,0967229	0	216,7381778	221,8940738	0	0	TRUE	33,1%	227,8184117	0	0	TRUE	34,0%
5404	2	670,054152	Non-Empty	516,9148707	191,0746223	0	0	TRUE	201,26418	0	206,3953057	211,3051594	0	0	TRUE	31,5%	254,6205778	0	0	TRUE	38,0%
5404	3	670,054152	Non-Empty	618,410215	274,0368289	0	0	TRUE	265,6932491	0	246,9206685	236,8549188	0	0	TRUE	35,3%	187,6151626	0	0	TRUE	28,0%
5405	1	1636,547016	Empty	834,7734879	548,010833	220,6776068	0,134843426	FALSE	535,1305552	0,041064025	545,1305552	549,223145	226,2610957	0,138255176	FALSE	33,6%	478,0923868	270,025371	0,164997014	FALSE	29,2%
5405	2	1636,547016	Empty	794,5019011	528,3099282	220,6776068	0,134843426	FALSE	536,0003324	0,041064025	536,0003324	522,7264393	226,2610957	0,138255176	FALSE	31,9%	496,4805555	270,025371	0,164997014	FALSE	30,3%
5405	3	1636,547016	Empty	828,9187586	560,2262551	220,6776068	0,134843426	FALSE	565,4161287	0,041064025	565,4161287	564,5982625	226,2610957	0,138255176	FALSE	34,5%	661,974074	270,025371	0,164997014	FALSE	40,4%
5406	1	806,0267965	Non-Empty	712,3821681	262,2215263	0	0	TRUE	254,2103171	0	269,2641609	264,5675414	0	0	TRUE	32,8%	265,7231197	0	0	TRUE	33,0%
5406	2	806,0267965	Non-Empty	701,8773064	257,0868166	0	0	TRUE	254,4457594	0	265,2935635	260,6662009	0	0	TRUE	32,3%	239,1508077	0	0	TRUE	29,7%
5406	3	806,0267965	Non-Empty	718,2156196	286,7184535	0	0	TRUE	297,37072	0	271,4690721	280,7930542	0	0	TRUE	34,8%	301,152869	0	0	TRUE	37,4%
5407	1	1371,393131	Empty	715,2005134	480,3291016	151,0931185	0,110174913	FALSE	491,8510444	0,073641336	491,8510444	451,2484974	180,1737227	0,131380068	FALSE	32,9%	507,4154586	172,8296183	0,126024853	FALSE	37,0%
5407	2	1371,393131	Empty	671,2258522	429,8491013	151,0931185	0,110174913	FALSE	434,865705	0,073641336	434,865705	423,5031317	180,1737227	0,131380068	FALSE	30,9%	452,5597333	172,8296183	0,126024853	FALSE	33,0%
5407	3	1371,393131	Empty	724,1468294	461,2149284	151,0931185	0,110174913	FALSE	444,6763819	0,073641336	444,6763819	496,6415022	180,1737227	0,131380068	FALSE	36,2%	411,4179394	172,8296183	0,126024853	FALSE	30,0%
5408	1	700,832492	Non-Empty	494,4087268	187,9086762	0	0	TRUE	189,0792034	0	213,3811203	212,0307939	0	0	TRUE	30,3%	242,8627448	0	0	TRUE	34,7%
5408	2	700,832492	Non-Empty	553,6686287	251,5313227	0	0	TRUE	257,0645946	0	238,9570124	237,4448357	0	0	TRUE	33,9%	256,7406159	0	0	TRUE	36,6%
5408	3	700,832492	Non-Empty	575,7668702	261,3924932	0	0	TRUE	254,688694	0	248,4943593	251,3568623	0	0	TRUE	35,9%	201,2291314	0	0	TRUE	28,7%
5409	1	736,5740334	Non-Empty	684,9222704	266,2010552	0	0	TRUE	248,828934	0	259,9662053	253,5084426	0	0	TRUE	34,4%	264,8356075	0	0	TRUE	36,0%
5409	2	736,5740334	Non-Empty	603,3575598	218,4544418	0	0	TRUE	234,9004178	0	229,0078481	223,319115	0	0	TRUE	30,3%	206,9028184	0	0	TRUE	28,1%
5409	3	736,5740334	Non-Empty	652,3414849	251,9185363	0	0	TRUE	252,8446816	0	247,59998	259,7464757	0	0	TRUE	35,3%	264,8356075	0	0	TRUE	36,0%
5410	1	1063,007273	Empty	598,4990053	375,2872017	103,6371274	0,097494279	FALSE	371,6264473	0,031927731	371,6264473	352,7149407	123,2787684	0,115971707	FALSE	33,2%	374,4684713	103,5275405	0,097391187	FALSE	35,2%
5410	2	1063,007273	Empty	571,9190133	356,6921274	103,6371274	0,097494279	FALSE	361,0162908	0,031927731	361,0162908	337,0504864	123,2787684	0,115971707	FALSE	31,7%	362,3888432	103,5275405	0,097391187	FALSE	34,1%
5410	3	1063,007273	Empty	551,2424026	331,0279443	103,6371274	0,097494279	FALSE	330,3645353	0,031927731	330,3645353	373,2418463	123,2787684	0,115971707	FALSE	35,1%	326,1499589	103,5275405	0,097391187	FALSE	30,7%
5411	1	1326,208768	Empty	605,3035037	420,2973638	185,0061399	0,139500013	FALSE	447,9470094	0,101995929	447,9470094	399,3802883	205,9232154	0,155272096	FALSE	30,1%	415,277493	199,7718158	0,150633762	FALSE	31,3%
5411	2	1326,208768	Empty	680,1520921																	

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5426	1	866,2501385	Non-Empty	784,9345981	302,4987144	0	0	TRUE	283,7234744	0	301,2316339	297,8487395	0	0	TRUE	34,4%	308,6638425	0	0	TRUE	35,6%
5426	2	866,2501385	Non-Empty	692,9718436	256,4305945	0	0	TRUE	283,549989	0	265,9394059	262,9528506	0	0	TRUE	30,4%	258,8793517	0	0	TRUE	29,9%
5426	3	866,2501385	Non-Empty	779,3256277	337,3208296	0	0	TRUE	298,9766751	0	299,0790987	305,4485485	0	0	TRUE	35,3%	298,7069443	0	0	TRUE	34,5%
5427	1	993,5028565	Non-Empty	888,8882673	336,6465524	0	0	TRUE	333,7887667	0	334,3029849	325,776275	0	0	TRUE	32,8%	371,1988694	0	0	TRUE	37,4%
5427	2	993,5028565	Non-Empty	872,6532552	326,3590294	0	0	TRUE	329,4487326	0	328,1971411	319,8261663	0	0	TRUE	32,2%	294,7755728	0	0	TRUE	29,7%
5427	3	993,5028565	Non-Empty	880,1131213	330,4972747	0	0	TRUE	330,2653572	0	331,0027305	347,9004152	0	0	TRUE	35,0%	327,5284142	0	0	TRUE	33,0%
5428	1	1458,224864	Empty	786,3399213	518,9278167	140,7589746	0,096527619	FALSE	537,7730155	0,089531743	537,7730155	468,5039592	191,182832	0,131106551	FALSE	32,1%	548,7943037	179,4332365	0,123049086	FALSE	37,6%
5428	2	1458,224864	Empty	774,3579462	479,5185496	140,7589746	0,096527619	FALSE	470,9364565	0,089531743	470,9364565	461,3650583	191,182832	0,131106551	FALSE	31,6%	517,4346292	179,4332365	0,123049086	FALSE	35,5%
5428	3	1458,224864	Empty	756,298907	459,7784978	140,7589746	0,096527619	FALSE	449,515392	0,089531743	449,515392	528,3558465	191,182832	0,131106551	FALSE	36,2%	391,9959312	179,4332365	0,123049086	FALSE	26,9%
5429	1	892,0642524	Empty	381,28878	283,0874297	98,20135032	0,11008327	FALSE	293,5831561	0,09227775	293,5831561	258,178383	123,110397	0,138006199	FALSE	28,9%	315,4861381	110,724685	0,124121872	FALSE	35,4%
5429	2	892,0642524	Empty	435,2821199	310,7874564	98,20135032	0,11008327	FALSE	294,9898698	0,09227775	294,9898698	294,7383709	123,110397	0,138006199	FALSE	33,0%	271,9708087	110,724685	0,124121872	FALSE	30,5%
5429	3	892,0642524	Empty	401,584583	298,1893664	98,20135032	0,11008327	FALSE	303,4912265	0,09227775	303,4912265	339,1474986	123,110397	0,138006199	FALSE	38,0%	304,6073057	110,724685	0,124121872	FALSE	34,1%
5430	1	1336,046927	Empty	656,1646768	454,1298218	161,6222831	0,120970514	FALSE	466,4516003	0,082601591	466,4516003	423,0213113	192,7307936	0,144254509	FALSE	31,7%	403,5975093	212,1545956	0,158792772	FALSE	30,2%
5430	2	1336,046927	Empty	674,9957385	442,3607649	161,6222831	0,120970514	FALSE	424,0824248	0,082601591	424,0824248	435,1614656	192,7307936	0,144254509	FALSE	32,6%	459,2661313	212,1545956	0,158792772	FALSE	34,4%
5430	3	1336,046927	Empty	647,9564125	439,5563406	161,6222831	0,120970514	FALSE	445,5129023	0,082601591	445,5129023	477,8641504	192,7307936	0,144254509	FALSE	35,8%	473,1832867	212,1545956	0,158792772	FALSE	35,4%
5431	1	361,6875899	Non-Empty	307,4630834	121,9376484	0	0	TRUE	122,37101	0	120,9329466	114,9334833	0	0	TRUE	31,8%	88,31906266	0	0	TRUE	24,4%
5431	2	361,6875899	Non-Empty	299,4843078	124,3382119	0	0	TRUE	135,1509127	0	117,7946939	111,9509188	0	0	TRUE	31,0%	138,7870985	0	0	TRUE	38,4%
5431	3	361,6875899	Non-Empty	312,6165885	115,4117296	0	0	TRUE	104,1656672	0	122,9599495	134,8031878	0	0	TRUE	37,3%	134,5814288	0	0	TRUE	37,2%
5432	1	718,8638572	Non-Empty	594,0785244	218,193129	0	0	TRUE	232,9392454	0	225,8678746	222,5624271	0	0	TRUE	31,0%	245,6876474	0	0	TRUE	34,2%
5432	2	718,8638572	Non-Empty	643,6965883	244,4526185	0	0	TRUE	235,8401605	0	244,7325973	241,1510753	0	0	TRUE	33,5%	227,4885624	0	0	TRUE	31,6%
5432	3	718,8638572	Non-Empty	652,9832798	256,2181097	0	0	TRUE	250,0844513	0	248,263852	255,1503547	0	0	TRUE	35,5%	245,6876474	0	0	TRUE	34,2%
5433	1	1281,248024	Empty	669,142638	415,3214621	148,5526332	0,115943697	FALSE	423,1794875	0,024049119	423,1794875	408,4813016	155,3927937	0,121282367	FALSE	31,9%	529,2111405	217,5680448	0,169809468	FALSE	41,3%
5433	2	1281,248024	Empty	708,2491409	442,7676048	148,5526332	0,115943697	FALSE	438,9652699	0,024049119	438,9652699	432,3540521	155,3927937	0,121282367	FALSE	33,7%	362,0918329	217,5680448	0,169809468	FALSE	28,3%
5433	3	1281,248024	Empty	688,8938489	423,1589573	148,5526332	0,115943697	FALSE	419,1032669	0,024049119	419,1032669	440,4126705	155,3927937	0,121282367	FALSE	34,4%	389,9450509	217,5680448	0,169809468	FALSE	30,4%
5434	1	962,9341565	Empty	431,1666552	291,0801833	132,5326269	0,137634153	FALSE	314,5059186	0,099497929	314,5059186	288,5114842	135,101326	0,140301728	FALSE	30,0%	336,559511	157,5742937	0,163639739	FALSE	35,0%
5434	2	962,9341565	Empty	492,3478184	319,4906512	132,5326269	0,137634153	FALSE	310,1457013	0,099497929	310,1457013	329,4503293	135,101326	0,140301728	FALSE	34,2%	336,559511	157,5742937	0,163639739	FALSE	35,0%
5434	3	962,9341565	Empty	529,9563247	352,363322	132,5326269	0,137634153	FALSE	338,2825366	0,099497929	338,2825366	344,9723431	135,101326	0,140301728	FALSE	35,8%	289,8151345	157,5742937	0,163639739	FALSE	30,1%
5435	1	764,6695284	Non-Empty	566,0878615	284,3249928	0	0	TRUE	278,2456271	0	271,9511773	250,1488579	0	0	TRUE	32,7%	244,9912081	0	0	TRUE	32,0%
5435	2	764,6695284	Non-Empty	557,094826	265,4208683	0	0	TRUE	249,4304135	0	267,6308822	246,1749208	0	0	TRUE	32,2%	222,7192801	0	0	TRUE	29,1%
5435	3	764,6695284	Non-Empty	468,5373498	214,9236673	0	0	TRUE	236,9934878	0	225,0874689	268,3457497	0	0	TRUE	35,1%	296,9590402	0	0	TRUE	38,8%
5436	1	701,157048	Non-Empty	636,0016461	243,4401234	0	0	TRUE	248,6848544	0	235,3756627	230,7735452	0	0	TRUE	32,9%	236,2594401	0	0	TRUE	33,7%
5436	2	701,157048	Non-Empty	604,4939053	217,468246	0	0	TRUE	228,2488405	0	223,7150712	219,3409442	0	0	TRUE	31,3%	243,8807123	0	0	TRUE	34,8%
5436	3	701,157048	Non-Empty	654,0802579	240,2486786	0	0	TRUE	224,2233531	0	242,066314	251,0425586	0	0	TRUE	35,8%	221,0168956	0	0	TRUE	31,5%
5437	1	560,0994246	Non-Empty	532,8103894	242,1368492	0	0	TRUE	229,1852077	0	214,1923946	201,7333358	0	0	TRUE	36,0%	206,9932656	0	0	TRUE	37,0%
5437	2	560,0994246	Non-Empty	403,298326	146,0333988	0	0	TRUE	166,4903703	0	162,1279088	152,6973164	0	0	TRUE	27,3%	176,5530795	0	0	TRUE	31,5%
5437	3	560,0994246	Non-Empty	457,1564051	171,9291765	0	0	TRUE	164,4238466	0	183,7791212	205,6687724	0	0	TRUE	36,7%	176,5530795	0	0	TRUE	31,5%
5438	1	753,4191118	Empty	399,3566664	265,7778805	81,45060825	0,108107967	FALSE	257,377916	0,086183248	257,377916	258,6456988	90,17050035	0,119681727	FALSE	34,3%	267,8823508	103,2056068	0,136982995	FALSE	35,6%
5438	2	753,4191118	Empty	330,340342	222,6667616	81,45060825	0,108107967	FALSE	240,1720027	0,086183248	240,1720027	213,9468695	90,17050035	0,119681727	FALSE	28,4%	200,9117631	103,2056068	0,136982995	FALSE	26,7%
5438	3	753,4191118	Empty	399,2585676	264,9744697	81,45060825	0,108107967	FALSE	255,8691931	0,086183248	255,8691931	280,8265434	90,17050035	0,119681727	FALSE	37,3%	284,6249978	103,2056068	0,136982995	FALSE	37,8%
5439	1	1092,753681	Empty	593,8619785	403,6191785	121,0555183	0,110780243	FALSE	400,9509623	0,024256671	400,9509623	358,4202985	156,4147792	0,143138186	FALSE	32,8%	379,5881208	135,2469569	0,123767103	FALSE	34,7%
5439	2	1092,753681	Empty	563,1108192	371,0330487	121,0555183	0,110780243	FALSE	366,529862	0,024256671	366,529862	339,8607003	156,4147792	0,143138186	FALSE	31,1%	402,5934614	135,2469569	0,123767103	FALSE	36,8%
5439	3	1092,753681	Empty	498,5046345	318,1014537	121,0555183	0,110780243	FALSE	325,2728567	0,024256671	325,2728567	394,4726822	156,4147792	0,143138186	FALSE	36,1%	310,5720988	135,2469569	0,123767103	FALSE	28,4%
5440	1	601,9551977	Non-Empty	461,1091101	180,4607847	0	0	TRUE	165,8102705	0	198,269436	200,1783158	0	0	TRUE	33,3%	242,2502625	0	0	TRUE	40,2%
5440	2	601,9551977	Non-Empty	433,7368457	172,3785314	0	0	TRUE	177,0180284	0	186,4998064	188,2953717	0	0	TRUE	31,3%	212,8865943	0	0	TRUE	35,4%
5440	3	601,9551977	Non-Empty	505,1026756	249,1158815	0	0	TRUE	259,1268988	0	217,1859553	213,4815101	0	0	TRUE	35,5%	146,8183409	0	0	TRUE	24,4%
5441	1	1521,863263	Empty	787,5697471	496,4010277	191,1575739	0,125607588	FALSE	495,8272243	0,015589956	495,8272243	496,0927047	200,5648605	0,131789015	FALSE	32,6%	502,0579837	219,9654798	0,144536954	FALSE	33,0%
5441	2	1521,863263	Empty	802,9317684	515,1765777	191,1575739	0,125607588	FALSE	518,016303	0,015589956	518,016303	505,769291	200,5648605	0,131789015	FALSE	33,2%	486,3686717	219,9654798	0,144536954	FALSE	32,0%
5441	3	1521,863263	Empty	803,1464959	510,2856578	191,1575739	0,125607588	FALSE	508,0197358	0,015589956	508,0197358	520,0012675	200,5648605	0,131789015	FALSE	34,2%	533,4366077	219,9654798	0,144536954	FALSE	35,1%
5442	1	1275,379564	Empty	660,8377642	444,7224333	150,2854149	0,117835834	FALSE	451,04												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5457	1	1414,876703	Empty	770,2575714	516,6630264	181,1664747	0,128044002	FALSE	510,4038958	0,012157629	510,4038958	494,3275746	188,1131923	0,13295377	FALSE	34,9%	466,9093118	218,571861	0,154481207	FALSE	33,0%
5457	2	1414,876703	Empty	662,5510134	424,3452026	181,1664747	0,128044002	FALSE	433,4748062	0,012157629	433,4748062	425,2048245	188,1131923	0,13295377	FALSE	30,1%	523,5043799	218,571861	0,154481207	FALSE	37,0%
5457	3	1414,876703	Empty	724,0743608	473,8684735	181,1664747	0,128044002	FALSE	470,9980006	0,012157629	470,9980006	495,3443034	188,1131923	0,13295377	FALSE	35,0%	424,4630108	218,571861	0,154481207	FALSE	30,0%
5458	1	484,4186593	Non-Empty	389,0114459	150,6489438	0	0	TRUE	153,1785069	0	156,1139974	156,4600393	0	0	TRUE	32,3%	138,4053312	0	0	TRUE	28,6%
5458	2	484,4186593	Non-Empty	368,4705245	140,0887795	0	0	TRUE	152,5990997	0	147,8707301	148,1985	0	0	TRUE	30,6%	176,1522398	0	0	TRUE	36,4%
5458	3	484,4186593	Non-Empty	449,6128846	193,6809361	0	0	TRUE	178,6410528	0	180,4339318	179,7601201	0	0	TRUE	37,1%	169,8610883	0	0	TRUE	35,1%
5459	1	1111,115474	Empty	624,3886018	384,1054411	86,83548127	0,078151626	FALSE	360,6682921	0,118568389	360,6682921	372,0249618	118,608244	0,106747	FALSE	33,5%	341,0354427	85,34457813	0,076809819	FALSE	30,7%
5459	2	1111,115474	Empty	555,7181156	362,8822836	86,83548127	0,078151626	FALSE	386,8924632	0,118568389	386,8924632	331,1095208	118,608244	0,106747	FALSE	29,8%	429,0445891	85,34457813	0,076809819	FALSE	38,6%
5459	3	1111,115474	Empty	581,5467921	364,1277498	86,83548127	0,078151626	FALSE	363,5547192	0,118568389	363,5547192	407,9809918	118,608244	0,106747	FALSE	36,7%	341,0354427	85,34457813	0,076809819	FALSE	30,7%
5460	1	657,6709939	Non-Empty	567,0017255	245,5436463	0	0	TRUE	250,4157669	0	227,8422063	205,8807999	0	0	TRUE	31,3%	222,0707252	0	0	TRUE	33,8%
5460	2	657,6709939	Non-Empty	589,4271619	241,2353377	0	0	TRUE	219,3737133	0	236,8535737	214,0235737	0	0	TRUE	32,5%	222,0707252	0	0	TRUE	33,8%
5460	3	657,6709939	Non-Empty	480,2327061	170,89201	0	0	TRUE	187,8815137	0	192,975214	237,7666203	0	0	TRUE	36,2%	213,5295435	0	0	TRUE	32,5%
5461	1	1369,498714	Empty	777,0880838	473,9470324	131,0227943	0,095672083	FALSE	459,8351236	0,040954201	459,8351236	456,7025632	136,8437423	0,099922505	FALSE	33,3%	563,911235	211,5405294	0,154465665	FALSE	41,2%
5461	2	1369,498714	Empty	749,6402896	460,5754555	131,0227943	0,095672083	FALSE	460,539764	0,040954201	460,539764	440,5712157	136,8437423	0,099922505	FALSE	32,2%	451,128988	211,5405294	0,154465665	FALSE	32,9%
5461	3	1369,498714	Empty	709,857768	434,9762257	131,0227943	0,095672083	FALSE	449,123826	0,040954201	449,123826	472,2249347	136,8437423	0,099922505	FALSE	34,5%	354,4584906	211,5405294	0,154465665	FALSE	25,9%
5462	1	624,5918856	Non-Empty	497,0902689	200,7671699	0	0	TRUE	208,752541	0	201,9349956	197,3203626	0	0	TRUE	31,6%	210,7997614	0	0	TRUE	33,8%
5462	2	624,5918856	Non-Empty	516,9910546	201,6133703	0	0	TRUE	190,544156	0	210,0193725	205,2199947	0	0	TRUE	32,9%	218,60716	0	0	TRUE	35,0%
5462	3	624,5918856	Non-Empty	523,4359724	222,2113455	0	0	TRUE	225,2951886	0	212,6375176	222,0515284	0	0	TRUE	35,6%	195,1849643	0	0	TRUE	31,3%
5463	1	710,2052542	Non-Empty	569,4373821	230,1397304	0	0	TRUE	196,5445145	0	226,0183209	214,7226864	0	0	TRUE	30,2%	249,3273765	0	0	TRUE	35,1%
5463	2	710,2052542	Non-Empty	638,3039762	281,8727722	0	0	TRUE	285,1440038	0	253,3525151	240,6908096	0	0	TRUE	33,9%	219,1058763	0	0	TRUE	30,9%
5463	3	710,2052542	Non-Empty	581,5712031	225,1927516	0	0	TRUE	228,5167359	0	230,8344182	254,7917583	0	0	TRUE	35,9%	241,7720014	0	0	TRUE	34,0%
5464	1	911,809808	Non-Empty	683,0863811	234,2238801	0	0	TRUE	249,9776847	0	270,1374906	279,3674573	0	0	TRUE	30,6%	268,1793553	0	0	TRUE	29,4%
5464	2	911,809808	Non-Empty	772,9971988	297,6449374	0	0	TRUE	286,9089816	0	305,6941688	316,1390241	0	0	TRUE	34,7%	386,1782716	0	0	TRUE	42,4%
5464	3	911,809808	Non-Empty	849,5751447	379,9409904	0	0	TRUE	374,9231416	0	335,9781486	316,3033266	0	0	TRUE	34,7%	257,4521811	0	0	TRUE	28,2%
5465	1	1287,847904	Empty	675,4720594	438,3717361	157,9911917	0,122678455	FALSE	440,1745069	0,016238215	440,1745069	415,1239329	179,7555965	0,139578281	FALSE	32,2%	409,081099	185,7984304	0,144270476	FALSE	31,8%
5465	2	1287,847904	Empty	691,8354631	447,8434289	157,9911917	0,122678455	FALSE	442,7544887	0,016238215	442,7544887	425,1803674	179,7555965	0,139578281	FALSE	33,0%	499,9880098	185,7984304	0,144270476	FALSE	38,8%
5465	3	1287,847904	Empty	637,249664	401,6327392	157,9911917	0,122678455	FALSE	404,9189085	0,016238215	404,9189085	447,5436039	179,7555965	0,139578281	FALSE	34,8%	378,7787953	185,7984304	0,144270476	FALSE	29,4%
5466	1	731,1305289	Non-Empty	694,1903956	306,4972878	0	0	TRUE	300,6987644	0	270,4283508	252,6158688	0	0	TRUE	34,6%	263,5470511	0	0	TRUE	36,0%
5466	2	731,1305289	Non-Empty	605,3740017	215,9042574	0	0	TRUE	208,3290974	0	235,8290952	220,2955851	0	0	TRUE	30,1%	229,54098	0	0	TRUE	31,4%
5466	3	731,1305289	Non-Empty	577,2498848	208,7289837	0	0	TRUE	222,1026671	0	224,8730829	258,2190751	0	0	TRUE	35,3%	238,0424978	0	0	TRUE	32,6%
5467	1	575,3543463	Non-Empty	381,9947385	142,2127569	0	0	TRUE	150,1351909	0	166,6952864	175,765471	0	0	TRUE	30,5%	163,3722218	0	0	TRUE	28,4%
5467	2	575,3543463	Non-Empty	419,8215443	169,3720864	0	0	TRUE	166,6270441	0	183,2021898	193,1705441	0	0	TRUE	33,6%	227,3004825	0	0	TRUE	39,5%
5467	3	575,3543463	Non-Empty	516,6513102	263,769503	0	0	TRUE	258,5921113	0	225,4568701	206,4183312	0	0	TRUE	35,9%	184,681642	0	0	TRUE	32,1%
5468	1	729,5519344	Non-Empty	602,9524395	219,8207599	0	0	TRUE	209,8665115	0	237,8934999	249,665079	0	0	TRUE	34,2%	279,2112342	0	0	TRUE	38,3%
5468	2	729,5519344	Non-Empty	549,8857817	189,3607917	0	0	TRUE	202,013233	0	216,9561719	227,6917185	0	0	TRUE	31,2%	225,1703501	0	0	TRUE	30,9%
5468	3	729,5519344	Non-Empty	696,2460071	320,3703828	0	0	TRUE	317,6721899	0	274,7022626	252,1951369	0	0	TRUE	34,6%	225,1703501	0	0	TRUE	30,9%
5469	1	610,2355091	Non-Empty	444,4166729	161,1669928	0	0	TRUE	160,9863112	0	185,8235825	185,0918373	0	0	TRUE	30,3%	187,2313494	0	0	TRUE	30,7%
5469	2	610,2355091	Non-Empty	500,6537334	212,6748501	0	0	TRUE	207,7649654	0	209,3379389	208,5135977	0	0	TRUE	34,2%	214,9693271	0	0	TRUE	35,2%
5469	3	610,2355091	Non-Empty	514,3720984	236,3936662	0	0	TRUE	241,4842326	0	215,0739877	216,6300742	0	0	TRUE	35,5%	208,0348327	0	0	TRUE	34,1%
5470	1	549,4045688	Non-Empty	483,9484979	207,5039152	0	0	TRUE	182,3103558	0	204,0302017	185,7421254	0	0	TRUE	33,8%	212,269947	0	0	TRUE	38,6%
5470	2	549,4045688	Non-Empty	411,7164091	182,9386213	0	0	TRUE	205,4118569	0	173,5775239	158,0190479	0	0	TRUE	28,8%	156,0808434	0	0	TRUE	28,4%
5470	3	549,4045688	Non-Empty	407,4927317	158,9620322	0	0	TRUE	161,6823561	0	171,7968432	205,6433954	0	0	TRUE	37,4%	181,0537783	0	0	TRUE	33,0%
5471	1	1065,636355	Empty	535,9787802	338,2503998	95,9385693	0,09002937	FALSE	334,2043991	0,104708382	334,2043991	342,8245496	108,3076912	0,101636633	FALSE	32,2%	324,8891327	90,26206338	0,0847025	FALSE	30,5%
5471	2	1065,636355	Empty	546,1874011	341,5592499	95,9385693	0,09002937	FALSE	330,6134784	0,104708382	330,6134784	349,354222	108,3076912	0,101636633	FALSE	32,8%	337,884698	90,26206338	0,0847025	FALSE	31,7%
5471	3	1065,636355	Empty	564,517313	385,8267056	95,9385693	0,09002937	FALSE	400,8184778	0,104708382	400,8184778	373,4575837	108,3076912	0,101636633	FALSE	35,0%	402,8625246	90,26206338	0,0847025	FALSE	37,8%
5472	1	850,8810238	Non-Empty	524,6269204	239,1101624	0	0	TRUE	274,4789718	0	246,1460188	241,0622417	0	0	TRUE	28,3%	210,6141148	0	0	TRUE	24,8%
5472	2	850,8810238	Non-Empty	655,0239937	315,6231106	0	0	TRUE	297,1077949	0	307,3261055	300,9787454	0	0	TRUE	35,4%	320,1334545	0	0	TRUE	37,6%
5472	3	850,8810238	Non-Empty	633,8868117	296,1477508	0	0	TRUE	279,2942571	0	297,4088996	308,8400368	0	0	TRUE	36,3%	320,1334545	0	0	TRUE	37,6%
5473	1	687,677687	Non-Empty	594,3377471	231,6349754	0	0	TRUE	252,665478	0	222,2621164	219,1416108	0	0	TRUE	31,9%	226,5291204	0	0	TRUE	32,9%
5473	2	687,677687	Non-Empty	603,8271556	213,9944412	0	0	TRUE	207,8950011	0	225,8108327	222,640504	0	0	TRUE	32,4%	291,2517262	0	0	TRUE	42,4%
5473	3	687,677687	Non-Empty	640,712607	242,0482703	0	0	TRUE	227,1172079	0	239,6047378	245,8955722	0	0	TRUE	35,8%	169,8968403	0	0	TRUE	24,7%
5474	1	555,6818477	Non-Empty	437,2295906	183,2729003	0	0	TRUE	177												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5488	1	939,3281957	Empty	468,8649826	327,5214789	117,7126357	0,12531577	FALSE	335,3434041	0,080271674	335,3434041	299,9978813	145,2362333	0,154617134	FALSE	31,9%	365,2942983	139,5347494	0,148547387	FALSE	38,9%
5488	2	939,3281957	Empty	460,3367653	312,2937951	117,7126357	0,12531577	FALSE	313,4162539	0,080271674	313,4162539	294,5411992	145,2362333	0,154617134	FALSE	31,4%	313,1093986	139,5347494	0,148547387	FALSE	33,3%
5488	3	939,3281957	Empty	457,6227349	299,5129218	117,7126357	0,12531577	FALSE	290,5685377	0,080271674	290,5685377	344,7891152	145,2362333	0,154617134	FALSE	36,7%	260,9244988	139,5347494	0,148547387	FALSE	27,8%
5489	1	810,9570099	Non-Empty	742,8355051	280,252255	0	0	TRUE	252,1544012	0	284,905363	261,4136443	0	0	TRUE	32,2%	228,081659	0	0	TRUE	28,1%
5489	2	810,9570099	Non-Empty	778,7105508	314,8036599	0	0	TRUE	285,3821654	0	298,6647927	274,0385476	0	0	TRUE	33,8%	261,8715344	0	0	TRUE	32,3%
5489	3	810,9570099	Non-Empty	592,8671433	215,9010951	0	0	TRUE	273,4204432	0	227,3868542	275,504818	0	0	TRUE	34,0%	321,0038164	0	0	TRUE	39,6%
5490	1	1423,075057	Empty	700,8252693	474,6182895	192,5802869	0,135326866	FALSE	466,2911073	0,086291418	466,2911073	464,3619934	220,790615	0,155150365	FALSE	32,6%	413,6846096	222,0840756	0,156059285	FALSE	29,1%
5490	2	1423,075057	Empty	660,8857795	466,1086909	192,5802869	0,135326866	FALSE	489,2113998	0,086291418	489,2113998	437,8983628	220,790615	0,155150365	FALSE	30,8%	562,611089	222,0840756	0,156059285	FALSE	39,5%
5490	3	1423,075057	Empty	715,0034008	482,3480766	192,5802869	0,135326866	FALSE	467,5725499	0,086291418	467,5725499	520,8147008	220,790615	0,155150365	FALSE	36,6%	446,7793784	222,0840756	0,156059285	FALSE	31,4%
5491	1	637,1617522	Non-Empty	602,7620607	233,0756527	0	0	TRUE	235,4761412	0	219,0327451	214,4914322	0	0	TRUE	33,7%	205,7501491	0	0	TRUE	32,3%
5491	2	637,1617522	Non-Empty	564,7023159	193,2987562	0	0	TRUE	193,982093	0	205,2025276	200,9479634	0	0	TRUE	31,5%	199,1130476	0	0	TRUE	31,3%
5491	3	637,1617522	Non-Empty	585,9580652	210,7873433	0	0	TRUE	207,703518	0	212,9264795	221,7223565	0	0	TRUE	34,8%	232,2985555	0	0	TRUE	36,5%
5492	1	1553,340099	Empty	815,3620201	530,9655865	183,0128442	0,117818914	FALSE	536,7520421	0,045879726	536,7520421	513,0278024	200,9506283	0,129366794	FALSE	33,0%	578,3713133	256,2174737	0,164946153	FALSE	37,2%
5492	2	1553,340099	Empty	802,431924	501,8369251	183,0128442	0,117818914	FALSE	491,4248154	0,045879726	491,4248154	504,8921538	200,9506283	0,129366794	FALSE	32,5%	528,7966293	256,2174737	0,164946153	FALSE	34,0%
5492	3	1553,340099	Empty	806,0948224	520,5375871	183,0128442	0,117818914	FALSE	525,1632411	0,045879726	525,1632411	535,4201425	200,9506283	0,129366794	FALSE	34,5%	446,172156	256,2174737	0,164946153	FALSE	28,7%
5493	1	578,6733243	Non-Empty	410,8630524	147,3829549	0	0	TRUE	168,8745958	0	165,846393	172,444795	0	0	TRUE	29,8%	153,8245546	0	0	TRUE	26,6%
5493	2	578,6733243	Non-Empty	477,6101276	178,4413641	0	0	TRUE	164,244339	0	192,7890972	200,4594477	0	0	TRUE	34,6%	190,4494485	0	0	TRUE	32,9%
5493	3	578,6733243	Non-Empty	545,1153596	252,8490054	0	0	TRUE	245,5543895	0	220,0378341	205,7690817	0	0	TRUE	35,6%	234,3993213	0	0	TRUE	40,5%
5494	1	1134,406755	Empty	502,3988062	340,6360012	170,5708509	0,150361279	FALSE	368,807083	0,10516013	368,807083	328,2284103	182,9784418	0,161298794	FALSE	28,9%	370,4185323	188,88232	0,166503169	FALSE	32,7%
5494	2	1134,406755	Empty	612,5588149	408,8129168	170,5708509	0,150361279	FALSE	395,0009056	0,10516013	395,0009056	400,1984152	182,9784418	0,161298794	FALSE	35,3%	439,8720072	188,88232	0,166503169	FALSE	38,8%
5494	3	1134,406755	Empty	589,2507947	384,9578372	170,5708509	0,150361279	FALSE	370,5987667	0,10516013	370,5987667	405,9799298	182,9784418	0,161298794	FALSE	35,8%	324,1162158	188,88232	0,166503169	FALSE	28,6%
5495	1	1528,714691	Empty	830,7374332	547,3931385	191,1727953	0,125054594	FALSE	532,2434616	0,071890874	532,2434616	514,0705387	230,5760408	0,150830003	FALSE	33,6%	482,7520076	219,6989183	0,143714795	FALSE	31,6%
5495	2	1528,714691	Empty	751,945904	504,7166171	191,1727953	0,125054594	FALSE	525,6819481	0,071890874	525,6819481	465,3133716	230,5760408	0,150830003	FALSE	30,4%	482,7520076	219,6989183	0,143714795	FALSE	31,6%
5495	3	1528,714691	Empty	750,615207	476,6049351	191,1727953	0,125054594	FALSE	470,7892809	0,071890874	470,7892809	549,307803	230,5760408	0,150830003	FALSE	35,9%	563,2106755	219,6989183	0,143714795	FALSE	36,8%
5496	1	661,8462668	Non-Empty	536,4734654	269,7241516	0	0	TRUE	301,8496506	0	227,8278053	207,2536913	0	0	TRUE	31,3%	241,2981181	0	0	TRUE	36,5%
5496	2	661,8462668	Non-Empty	520,6679484	205,4042316	0	0	TRUE	189,0153275	0	221,1155697	201,1476078	0	0	TRUE	30,4%	227,5096542	0	0	TRUE	34,4%
5496	3	661,8462668	Non-Empty	501,3292913	186,7178836	0	0	TRUE	170,9812887	0	212,9028918	253,4449677	0	0	TRUE	38,3%	193,0384945	0	0	TRUE	29,2%
5497	1	731,0896832	Non-Empty	596,991046	221,5273736	0	0	TRUE	225,2750696	0	233,557253	226,1264606	0	0	TRUE	30,9%	263,5323277	0	0	TRUE	36,0%
5497	2	731,0896832	Non-Empty	629,4555542	263,7025721	0	0	TRUE	277,1609583	0	246,2581493	238,4232687	0	0	TRUE	32,6%	212,5260707	0	0	TRUE	29,1%
5497	3	731,0896832	Non-Empty	642,277188	245,8597375	0	0	TRUE	228,6536552	0	251,2742808	266,5399539	0	0	TRUE	36,5%	255,0312848	0	0	TRUE	34,9%
5498	1	633,1944305	Non-Empty	452,2490725	176,3219886	0	0	TRUE	165,4401729	0	200,486965	179,1207141	0	0	TRUE	28,3%	166,213538	0	0	TRUE	26,3%
5498	2	633,1944305	Non-Empty	536,0556678	288,5175884	0	0	TRUE	306,0247773	0	237,6393462	212,3137003	0	0	TRUE	33,5%	221,6180507	0	0	TRUE	35,0%
5498	3	633,1944305	Non-Empty	440,0254948	168,3548534	0	0	TRUE	161,7294802	0	195,0681192	241,7600161	0	0	TRUE	38,2%	245,3628418	0	0	TRUE	38,8%
5499	1	577,9879405	Non-Empty	476,1708821	175,1902189	0	0	TRUE	170,6491132	0	187,5688592	175,9151072	0	0	TRUE	30,4%	182,9075761	0	0	TRUE	31,6%
5499	2	577,9879405	Non-Empty	534,7938247	227,6880264	0	0	TRUE	217,0217856	0	210,6610701	197,5725869	0	0	TRUE	34,2%	182,9075761	0	0	TRUE	31,6%
5499	3	577,9879405	Non-Empty	456,3419063	175,1096953	0	0	TRUE	190,3170417	0	179,7580112	204,5002464	0	0	TRUE	35,4%	212,1727883	0	0	TRUE	36,7%
5500	1	1350,670858	Empty	713,1656035	434,3230162	144,0867158	0,106677889	FALSE	441,4914521	0,015423861	441,4914521	432,9143623	145,4953697	0,107720818	FALSE	32,1%	433,5486704	211,846506	0,156845396	FALSE	32,1%
5500	2	1350,670858	Empty	748,8496936	460,6453602	144,0867158	0,106677889	FALSE	458,4520499	0,015423861	458,4520499	454,5757478	145,4953697	0,107720818	FALSE	33,7%	383,5238238	211,846506	0,156845396	FALSE	28,4%
5500	3	1350,670858	Empty	746,6886302	455,7024813	144,0867158	0,106677889	FALSE	450,7273557	0,015423861	450,7273557	463,1807477	145,4953697	0,107720818	FALSE	34,3%	533,5983636	211,846506	0,156845396	FALSE	39,5%
5501	1	1797,920937	Empty	916,8730178	634,4104432	244,4436957	0,135959091	FALSE	618,7379876	0,046980259	618,7379876	580,6077537	314,531948	0,174942035	FALSE	32,3%	522,6514351	331,4565055	0,18435544	FALSE	29,1%
5501	2	1797,920937	Empty	893,8039433	636,087567	244,4436957	0,135959091	FALSE	645,1613097	0,046980259	645,1613097	565,9993147	314,531948	0,174942035	FALSE	31,5%	585,3696074	331,4565055	0,18435544	FALSE	32,6%
5501	3	1797,920937	Empty	787,6143326	527,4229266	244,4436957	0,135959091	FALSE	534,0216396	0,046980259	534,0216396	651,3138685	314,531948	0,174942035	FALSE	36,2%	689,8998944	331,4565055	0,18435544	FALSE	38,4%
5502	1	1502,168278	Empty	748,3983148	517,6991832	201,3054703	0,134009933	FALSE	537,0538825	0,084345541	537,0538825	472,9738551	246,0307985	0,16378378	FALSE	31,5%	417,2689661	301,7356874	0,200866768	FALSE	27,8%
5502	2	1502,168278	Empty	779,6785562	511,6815175	201,3054703	0,134009933	FALSE	493,7383097	0,084345541	493,7383097	492,7423875	246,0307985	0,16378378	FALSE	32,8%	550,7950353	301,7356874	0,200866768	FALSE	36,7%
5502	3	1502,168278	Empty	724,2528997	472,7875773	201,3054703	0,134009933	FALSE	471,3760858	0,084345541	471,3760858	536,4520355	246,0307985	0,16378378	FALSE	35,7%	534,1042766	301,7356874	0,200866768	FALSE	35,6%
5503	1	1312,793556	Empty	717,2894275	467,6461403	164,7646057	0,125506867	FALSE	431,4433661	0,179148968	431,4433661	445,8167688	142,6410684	0,108654607	FALSE	34,0%	339,7818616	213,2784751	0,162461549	FALSE	25,9%
5503	2	1312,793556	Empty	656,2058147	435,8204406	164,7646057	0,125506867	FALSE	428,8755796	0,179148968	428,8755796	407,8514819	142,6410684	0,108654607	FALSE	31,1%	417,005012	213,2784751	0,162461549	FALSE	31,8%
5503	3	1312,793556	Empty	579,6198535	409,3269755	164,7646057	0,125506867	FALSE	452,4746106	0,179148968	452,4746106	459,1253057	142,6410684	0,10865							

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5519	1	855,7602353	Non-Empty	796,1031363	293,4101072	0	0	TRUE	280,540422	0	292,9918025	292,4158352	0	0	TRUE	34,2%	301,460992	0	0	TRUE	35,2%
5519	2	855,7602353	Non-Empty	730,2155766	252,7809905	0	0	TRUE	265,1697484	0	268,7430412	268,2147425	0	0	TRUE	31,3%	282,0118957	0	0	TRUE	33,0%
5519	3	855,7602353	Non-Empty	798,9115544	309,5691376	0	0	TRUE	310,0500649	0	294,0253915	295,1296577	0	0	TRUE	34,5%	272,2873476	0	0	TRUE	31,8%
5520	1	535,6750656	Non-Empty	395,2249573	147,8027754	0	0	TRUE	187,6324661	0	151,5010064	146,6634783	0	0	TRUE	27,4%	149,1753347	0	0	TRUE	27,8%
5520	2	535,6750656	Non-Empty	513,5045436	203,6321877	0	0	TRUE	181,0117045	0	196,8409477	190,555685	0	0	TRUE	35,6%	176,2981229	0	0	TRUE	32,9%
5520	3	535,6750656	Non-Empty	488,7011826	184,2401025	0	0	TRUE	167,030895	0	187,3331115	198,4559023	0	0	TRUE	37,0%	210,201608	0	0	TRUE	39,2%
5521	1	1091,418557	Empty	596,5761175	387,8026155	123,9652992	0,113581814	FALSE	383,3060832	0,014805691	383,3060832	376,5908781	126,6533113	0,116044675	FALSE	34,5%	344,0341105	159,210079	0,145874447	FALSE	31,5%
5521	2	1091,418557	Empty	532,6241319	332,3743552	123,9652992	0,113581814	FALSE	336,4015481	0,014805691	336,4015481	336,220951	126,6533113	0,116044675	FALSE	30,8%	403,3503365	159,210079	0,145874447	FALSE	37,0%
5521	3	1091,418557	Empty	575,0492171	371,2415868	123,9652992	0,113581814	FALSE	371,7109262	0,014805691	371,7109262	378,6067284	126,6533113	0,116044675	FALSE	34,7%	344,0341105	159,210079	0,145874447	FALSE	31,5%
5522	1	1579,451676	Empty	831,9033791	523,6091943	188,5255957	0,11936142	FALSE	506,8552034	0,090977185	506,8552034	532,2227106	206,3815609	0,130666588	FALSE	33,7%	666,0338395	247,3258466	0,156589689	FALSE	42,2%
5522	2	1579,451676	Empty	799,5383332	502,2742362	188,5255957	0,11936142	FALSE	496,5503333	0,090977185	496,5503333	511,5166852	206,3815609	0,130666588	FALSE	32,4%	418,649842	247,3258466	0,156589689	FALSE	26,5%
5522	3	1579,451676	Empty	822,6305461	553,5682459	188,5255957	0,11936142	FALSE	576,0461397	0,090977185	576,0461397	535,7122807	206,3815609	0,130666588	FALSE	33,9%	494,767995	247,3258466	0,156589689	FALSE	31,3%
5523	1	794,2380597	Non-Empty	736,548474	263,5203817	0	0	TRUE	259,2260719	0	265,8536422	256,0977617	0	0	TRUE	32,2%	291,5557434	0	0	TRUE	36,7%
5523	2	794,2380597	Non-Empty	761,2162809	290,7247215	0	0	TRUE	288,9669445	0	274,7573689	264,6747534	0	0	TRUE	33,3%	261,3948045	0	0	TRUE	32,9%
5523	3	794,2380597	Non-Empty	702,6746523	239,9929565	0	0	TRUE	246,0450433	0	253,6270486	273,4655447	0	0	TRUE	34,4%	241,2875118	0	0	TRUE	30,4%
5524	1	1441,313017	Empty	725,3552243	496,0337393	183,8231794	0,127538694	FALSE	482,0451995	0,07369495	482,0451995	471,8730965	177,9722384	0,123479242	FALSE	32,7%	526,9316405	199,5379657	0,138441798	FALSE	36,6%
5524	2	1441,313017	Empty	700,2012789	477,7945659	183,8231794	0,127538694	FALSE	470,720798	0,07369495	470,720798	455,5094313	177,9722384	0,123479242	FALSE	31,6%	433,9437039	199,5379657	0,138441798	FALSE	30,1%
5524	3	1441,313017	Empty	661,7553487	467,4847114	183,8231794	0,127538694	FALSE	488,5470191	0,07369495	488,5470191	513,9304889	177,9722384	0,123479242	FALSE	35,7%	480,4376722	199,5379657	0,138441798	FALSE	33,3%
5525	1	1162,844074	Empty	549,0378875	376,4782297	157,2462649	0,13522245	FALSE	382,6820916	0,03749453	382,6820916	358,2949319	176,7867291	0,152029608	FALSE	30,8%	416,1757739	182,5338492	0,156971905	FALSE	35,8%
5525	2	1162,844074	Empty	590,2685195	411,227234	157,2462649	0,13522245	FALSE	410,9494683	0,03749453	410,9494683	385,2015022	176,7867291	0,152029608	FALSE	33,1%	379,4543821	182,5338492	0,156971905	FALSE	32,6%
5525	3	1162,844074	Empty	559,8282263	375,1386105	157,2462649	0,13522245	FALSE	369,2125143	0,03749453	369,2125143	419,3476401	176,7867291	0,152029608	FALSE	36,1%	367,2139182	182,5338492	0,156971905	FALSE	31,6%
5526	1	561,7476002	Non-Empty	427,9351187	189,1237419	0	0	TRUE	198,311058	0	184,1031512	164,2468175	0	0	TRUE	29,2%	222,3584251	0	0	TRUE	39,6%
5526	2	561,7476002	Non-Empty	494,7775792	215,8007446	0	0	TRUE	184,8226029	0	212,8596311	189,9017847	0	0	TRUE	33,8%	193,1007376	0	0	TRUE	34,4%
5526	3	561,7476002	Non-Empty	383,0309811	156,8231138	0	0	TRUE	178,6139393	0	164,784818	207,5989981	0	0	TRUE	37,0%	146,2884376	0	0	TRUE	26,0%
5527	1	719,808382	Non-Empty	615,8129434	222,5242872	0	0	TRUE	231,4434178	0	230,0975989	218,7291791	0	0	TRUE	30,4%	271,927611	0	0	TRUE	37,8%
5527	2	719,808382	Non-Empty	693,0235717	285,1804584	0	0	TRUE	279,5451319	0	258,9472364	246,153444	0	0	TRUE	34,2%	167,9552891	0	0	TRUE	23,3%
5527	3	719,808382	Non-Empty	617,5952271	212,1036363	0	0	TRUE	208,8198323	0	230,7635466	254,9257589	0	0	TRUE	35,4%	279,9254819	0	0	TRUE	38,9%
5528	1	775,6597702	Non-Empty	741,9669738	288,0038865	0	0	TRUE	284,7801414	0	270,4638082	262,0324413	0	0	TRUE	33,8%	273,2437827	0	0	TRUE	35,2%
5528	2	775,6597702	Non-Empty	691,8702644	244,0699553	0	0	TRUE	247,0089884	0	252,2024202	244,3403289	0	0	TRUE	31,5%	202,7292581	0	0	TRUE	26,1%
5528	3	775,6597702	Non-Empty	694,0405587	234,5859284	0	0	TRUE	243,8706403	0	252,9935418	269,287	0	0	TRUE	34,7%	299,6867294	0	0	TRUE	38,6%
5529	1	1167,295776	Empty	646,1865404	434,4614414	140,5985986	0,120448134	FALSE	425,2821539	0,093394225	425,2821539	404,4196632	142,9963761	0,122502265	FALSE	34,6%	328,301937	219,1141023	0,187710867	FALSE	28,1%
5529	2	1167,295776	Empty	568,4504535	356,6192163	140,5985986	0,120448134	FALSE	347,3337906	0,093394225	347,3337906	355,7680741	142,9963761	0,122502265	FALSE	30,5%	413,4172541	219,1141023	0,187710867	FALSE	35,4%
5529	3	1167,295776	Empty	560,296217	376,2151185	140,5985986	0,120448134	FALSE	394,6798317	0,093394225	394,6798317	407,1080389	142,9963761	0,122502265	FALSE	34,9%	425,5765851	219,1141023	0,187710867	FALSE	36,5%
5530	1	704,3506176	Non-Empty	568,9947612	225,2353263	0	0	TRUE	221,1307986	0	232,5586051	225,0451483	0	0	TRUE	32,0%	246,8857835	0	0	TRUE	35,1%
5530	2	704,3506176	Non-Empty	546,2888581	232,4543709	0	0	TRUE	258,274791	0	223,2782856	216,0646556	0	0	TRUE	30,7%	239,6244369	0	0	TRUE	34,0%
5530	3	704,3506176	Non-Empty	608,0317202	246,6609204	0	0	TRUE	224,9450279	0	248,5137269	263,2408137	0	0	TRUE	37,4%	217,8403972	0	0	TRUE	30,9%
5531	1	817,7479998	Non-Empty	728,8709025	314,6383113	0	0	TRUE	320,3415529	0	286,8913602	263,7370033	0	0	TRUE	32,3%	256,7348372	0	0	TRUE	31,4%
5531	2	817,7479998	Non-Empty	717,1913443	283,2788117	0	0	TRUE	269,3021118	0	282,2941615	259,5108342	0	0	TRUE	31,7%	256,7348372	0	0	TRUE	31,4%
5531	3	817,7479998	Non-Empty	631,4932511	219,8308767	0	0	TRUE	228,1043351	0	248,5624781	294,5001624	0	0	TRUE	36,0%	304,2783255	0	0	TRUE	37,2%
5532	1	1724,497515	Empty	913,056473	586,1632682	258,3699585	0,149823329	FALSE	562,313631	0,123601654	562,313631	571,2976662	225,3508886	0,130676262	FALSE	33,1%	646,6865683	312,427815	0,181170348	FALSE	37,5%
5532	2	1724,497515	Empty	920,9056099	594,3623238	258,3699585	0,149823329	FALSE	570,8626051	0,123601654	570,8626051	576,2088559	225,3508886	0,130676262	FALSE	33,4%	587,8968802	312,427815	0,181170348	FALSE	34,1%
5532	3	1724,497515	Empty	799,6661349	543,9719234	258,3699585	0,149823329	FALSE	591,3212793	0,123601654	591,3212793	576,9909933	225,3508886	0,130676262	FALSE	33,5%	489,9140669	312,427815	0,181170348	FALSE	28,4%
5533	1	1394,628863	Empty	702,3650904	469,5240935	199,5173688	0,143061265	FALSE	479,8105931	0,044273092	479,8105931	448,8469746	220,1944876	0,157887516	FALSE	32,2%	454,7702816	217,288178	0,155803586	FALSE	32,6%
5533	2	1394,628863	Empty	721,7308848	473,1359846	199,5173688	0,143061265	FALSE	467,668581	0,044273092	467,668581	461,2227011	220,1944876	0,157887516	FALSE	33,1%	439,6112722	217,288178	0,155803586	FALSE	31,5%
5533	3	1394,628863	Empty	699,9153781	451,9687854	199,5173688	0,143061265	FALSE	447,1496893	0,044273092	447,1496893	484,5591877	220,1944876	0,157887516	FALSE	34,7%	500,2473097	217,288178	0,155803586	FALSE	35,9%
5534	1	694,0332653	Non-Empty	524,0309822	189,0265634	0	0	TRUE	192,3235795	0	212,8193212	213,8390451	0	0	TRUE	30,8%	214,1166457	0	0	TRUE	30,9%
5534	2	694,0332653	Non-Empty	564,7762144	233,1600387	0	0	TRUE	239,845298	0	229,3667639	230,4657749	0	0	TRUE	33,2%	280,5666391	0	0	TRUE	40,4%
5534	3	694,0332653	Non-Empty	620,1303735	271,8466631	0	0	TRUE	261,8643877	0	251,8471801	249,7284453	0	0	TRUE	36,0%	199,3499804	0	0	TRUE	28,7%
5535	1	1171,481268	Empty	632,2206371	402,4273693	116,0145295	0,099032338	FALSE	404,6533187	0,06353841	404,6533187	388,3902593	124,006178	0,105854171	FALSE	33,2%	441,0282421	167,6230861	0,143086442	FALSE	37,6%
5535	2	1171,481268	Empty																		

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5550	1	783,5310423	Non-Empty	623,6044759	259,1973575	0	0	TRUE	279,1667519	0	252,2969021	241,6229406	0	0	TRUE	30,8%	205,2105111	0	0	TRUE	26,2%
5550	2	783,5310423	Non-Empty	655,3778623	266,0271145	0	0	TRUE	261,0528795	0	265,151728	253,9339155	0	0	TRUE	32,4%	279,8325151	0	0	TRUE	35,7%
5550	3	783,5310423	Non-Empty	657,6782426	258,3065704	0	0	TRUE	243,3114109	0	266,0824122	287,9741863	0	0	TRUE	36,8%	298,4880161	0	0	TRUE	38,1%
5551	1	1060,006355	Empty	590,259531	412,5622296	119,6941705	0,112918352	FALSE	410,0503346	0,047935452	410,0503346	358,400021	164,3829137	0,155077291	FALSE	33,8%	361,6492271	162,9541543	0,153729413	FALSE	34,1%
5551	2	1060,006355	Empty	521,1315604	341,4964786	119,6941705	0,112918352	FALSE	337,0468032	0,047935452	337,0468032	316,4261691	164,3829137	0,155077291	FALSE	29,9%	286,825249	162,9541543	0,153729413	FALSE	27,1%
5551	3	1060,006355	Empty	474,171483	305,947647	119,6941705	0,112918352	FALSE	312,9092174	0,047935452	312,9092174	385,1801651	164,3829137	0,155077291	FALSE	36,3%	411,5318791	162,9541543	0,153729413	FALSE	38,8%
5552	1	1289,192564	Empty	654,8923335	461,8052261	169,4261076	0,131420326	FALSE	469,7327841	0,078071065	469,7327841	427,1601104	204,0712232	0,158293826	FALSE	33,1%	597,4307005	238,2195453	0,184781973	FALSE	46,3%
5552	2	1289,192564	Empty	600,7945815	406,1798145	169,4261076	0,131420326	FALSE	412,5797131	0,078071065	412,5797131	391,8743077	204,0712232	0,158293826	FALSE	30,4%	361,6027924	238,2195453	0,184781973	FALSE	28,0%
5552	3	1289,192564	Empty	636,5496458	421,2075237	169,4261076	0,131420326	FALSE	406,8800671	0,078071065	406,8800671	470,1581462	204,0712232	0,158293826	FALSE	36,5%	330,1590713	238,2195453	0,184781973	FALSE	25,6%
5553	1	1106,903831	Empty	577,7010659	417,7967211	163,4414713	0,147656433	FALSE	420,8075658	0,064301552	420,8075658	383,5304183	196,8093927	0,177801709	FALSE	34,6%	409,073155	171,266656	0,154725868	FALSE	37,0%
5553	2	1106,903831	Empty	491,7092062	332,703243	163,4414713	0,147656433	FALSE	336,6124692	0,064301552	336,6124692	326,4412145	196,8093927	0,177801709	FALSE	29,5%	336,8837747	171,266656	0,154725868	FALSE	30,4%
5553	3	1106,903831	Empty	526,2391271	356,403867	163,4414713	0,147656433	FALSE	349,4837962	0,064301552	349,4837962	396,9321984	196,8093927	0,177801709	FALSE	35,9%	360,9469015	171,266656	0,154725868	FALSE	32,6%
5554	1	670,5258714	Non-Empty	632,1623287	252,3789548	0	0	TRUE	239,7955901	0	239,1936129	223,0655073	0	0	TRUE	33,3%	208,6080489	0	0	TRUE	31,1%
5554	2	670,5258714	Non-Empty	612,7608437	233,5168351	0	0	TRUE	221,4728358	0	231,8526008	216,2194776	0	0	TRUE	32,2%	208,6080489	0	0	TRUE	31,1%
5554	3	670,5258714	Non-Empty	527,2027265	184,6300814	0	0	TRUE	209,2574455	0	199,4796576	231,2408865	0	0	TRUE	34,5%	253,3097736	0	0	TRUE	37,8%
5555	1	1178,79645	Non-Empty	958,1105523	470,4774528	0	0	TRUE	470,9219661	0	427,3192593	406,2062449	0	0	TRUE	34,5%	309,0048947	5,530423042	0,004691584	FALSE	26,2%
5555	2	1178,79645	Non-Empty	826,7449614	353,4534255	0	0	TRUE	368,2395025	0	368,729938	350,5117081	0	0	TRUE	29,7%	446,3404035	5,530423042	0,004691584	FALSE	37,9%
5555	3	1178,79645	Non-Empty	858,173775	354,8655719	0	0	TRUE	339,6349817	0	382,7472529	422,0784973	0	0	TRUE	35,8%	423,451152	5,530423042	0,004691584	FALSE	35,9%
5556	1	801,4041138	Empty	371,8908507	225,6105675	71,7364443	0,089513447	FALSE	228,5366032	0,105887092	228,5366032	217,4791385	125,3860268	0,156457928	FALSE	27,1%	258,7867451	180,2822614	0,224957993	FALSE	32,3%
5556	2	801,4041138	Empty	493,5748853	344,7916429	71,7364443	0,089513447	FALSE	345,2147193	0,105887092	345,2147193	288,6391011	125,3860268	0,156457928	FALSE	36,0%	233,7428665	180,2822614	0,224957993	FALSE	29,2%
5556	3	801,4041138	Empty	383,5573344	231,0019034	71,7364443	0,089513447	FALSE	227,6527913	0,105887092	227,6527913	295,2858742	125,3860268	0,156457928	FALSE	36,8%	308,8745022	180,2822614	0,224957993	FALSE	38,5%
5557	1	744,1668279	Non-Empty	655,1975503	257,4028634	0	0	TRUE	265,0912924	0	248,685229	234,5611639	0	0	TRUE	31,5%	230,9483259	0	0	TRUE	31,0%
5557	2	744,1668279	Non-Empty	682,1379735	273,2970604	0	0	TRUE	269,9392631	0	258,9106722	244,2058536	0	0	TRUE	32,8%	230,9483259	0	0	TRUE	31,0%
5557	3	744,1668279	Non-Empty	623,2806517	213,4669041	0	0	TRUE	209,1362724	0	236,5709267	265,3998104	0	0	TRUE	35,7%	282,2701761	0	0	TRUE	37,9%
5558	1	569,1213369	Non-Empty	523,0949432	249,0455554	0	0	TRUE	242,3061708	0	217,1359185	197,3225128	0	0	TRUE	34,7%	169,3813503	0	0	TRUE	29,8%
5558	2	569,1213369	Non-Empty	443,0921928	164,594032	0	0	TRUE	153,4058743	0	183,926898	167,1437777	0	0	TRUE	29,4%	223,5833824	0	0	TRUE	39,3%
5558	3	569,1213369	Non-Empty	404,8642103	155,4817495	0	0	TRUE	173,4092919	0	168,0585204	204,6550465	0	0	TRUE	36,0%	176,1566043	0	0	TRUE	31,0%
5559	1	875,1628772	Empty	368,5875455	268,4952594	89,7429996	0,10254434	FALSE	310,9410116	0,239865988	310,9410116	225,5990421	132,6392169	0,151559464	FALSE	25,8%	329,3623731	66,44325001	0,075921011	FALSE	37,6%
5559	2	875,1628772	Empty	497,2179872	327,5433102	89,7429996	0,10254434	FALSE	300,4066714	0,239865988	300,4066714	304,329061	132,6392169	0,151559464	FALSE	34,8%	301,1313126	66,44325001	0,075921011	FALSE	34,4%
5559	3	875,1628772	Empty	436,9714593	279,1243076	89,7429996	0,10254434	FALSE	263,8151941	0,239865988	263,8151941	345,2347741	132,6392169	0,151559464	FALSE	39,4%	244,6691915	66,44325001	0,075921011	FALSE	28,0%
5560	1	525,4270437	Non-Empty	473,5660411	182,8328202	0	0	TRUE	187,4635867	0	176,2812998	175,2758665	0	0	TRUE	33,4%	161,6698596	0	0	TRUE	30,8%
5560	2	525,4270437	Non-Empty	450,4217359	155,3310494	0	0	TRUE	155,6043503	0	167,666011	166,7097156	0	0	TRUE	31,7%	173,2177067	0	0	TRUE	33,0%
5560	3	525,4270437	Non-Empty	487,5312288	187,2631741	0	0	TRUE	182,3591067	0	181,479733	183,4414616	0	0	TRUE	34,9%	190,5394774	0	0	TRUE	36,3%
5561	1	1309,564932	Empty	652,4503604	423,0434603	178,5843525	0,136369223	FALSE	421,6067808	0,01838109	421,6067808	412,7196478	190,7927546	0,14569171	FALSE	31,5%	412,7976415	180,3379036	0,137708257	FALSE	31,5%
5561	2	1309,564932	Empty	703,4566661	469,867537	178,5843525	0,136369223	FALSE	464,2486283	0,01838109	464,2486283	444,984638	190,7927546	0,14569171	FALSE	34,0%	469,7352472	180,3379036	0,137708257	FALSE	35,9%
5561	3	1309,564932	Empty	637,5685665	416,6539343	178,5843525	0,136369223	FALSE	423,7095226	0,01838109	423,7095226	451,8606458	190,7927546	0,14569171	FALSE	34,5%	427,0320429	180,3379036	0,137708257	FALSE	32,6%
5562	1	947,7291489	Non-Empty	862,740065	340,0743934	0	0	TRUE	357,3252137	0	318,4618169	306,254192	0	0	TRUE	32,3%	335,9040022	0	0	TRUE	35,4%
5562	2	947,7291489	Non-Empty	866,4950976	314,2612366	0	0	TRUE	301,9438674	0	319,8479058	307,5871479	0	0	TRUE	32,5%	299,9142876	0	0	TRUE	31,6%
5562	3	947,7291489	Non-Empty	838,243462	293,393519	0	0	TRUE	288,4600678	0	309,4194262	333,887809	0	0	TRUE	35,2%	311,9108591	0	0	TRUE	32,9%
5563	1	687,1387884	Non-Empty	548,9424838	223,9092903	0	0	TRUE	241,7563267	0	219,841581	203,8427265	0	0	TRUE	29,7%	221,8885671	0	0	TRUE	32,3%
5563	2	687,1387884	Non-Empty	618,498062	261,4936547	0	0	TRUE	247,3694773	0	247,6973377	229,6712953	0	0	TRUE	33,4%	236,2039585	0	0	TRUE	34,4%
5563	3	687,1387884	Non-Empty	548,3389325	201,7358434	0	0	TRUE	198,0129843	0	219,5998696	253,6247665	0	0	TRUE	36,9%	229,0462628	0	0	TRUE	33,3%
5564	1	1385,479195	Empty	727,1370906	492,021623	176,7515586	0,127574315	FALSE	498,1559022	0,053043159	498,1559022	454,7478269	214,0253547	0,154477495	FALSE	32,8%	502,4265211	182,1345638	0,131459617	FALSE	36,3%
5564	2	1385,479195	Empty	711,1865287	459,7207497	176,7515586	0,127574315	FALSE	449,5047174	0,053043159	449,5047174	444,7724269	214,0253547	0,154477495	FALSE	32,1%	456,7513828	182,1345638	0,131459617	FALSE	33,0%
5564	3	1385,479195	Empty	670,9048156	433,7368219	176,7515586	0,127574315	FALSE	437,818575	0,053043159	437,818575	485,9589408	214,0253547	0,154477495	FALSE	35,1%	426,3012906	182,1345638	0,131459617	FALSE	30,8%
5565	1	1140,542622	Empty	577,4038488	370,6423959	154,8764971	0,135791941	FALSE	354,9015958	0,123729067	354,9015958	380,6917442	171,2435563	0,15014218	FALSE	33,4%	431,8559444	222,1527068	0,194778084	FALSE	37,9%
5565	2	1140,542622	Empty	533,0704293	367,8290593	154,8764971	0,135791941	FALSE	393,6083419	0,123729067	393,6083419	351,4620001	171,2435563	0,15014218	FALSE	30,8%	409,7094857	222,1527068	0,194778084	FALSE	35,9%
5565	3	1140,542622	Empty	603,1303025	402,0711673	154,8764971	0,135791941	FALSE	392,0326847	0,123729067	392,0326847	408,3888782	171,2435563	0,15014218	FALSE	35,8%	298,9771923	222,1527068	0,194778084	FALSE	26,2%
5566	1	836,7241957	Non-Empty	735,3204772	2																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5581	1	689,9840117	Non-Empty	572,6268559	244,2234826	0	0	TRUE	243,2340401	0	236,2739376	231,8878557	0	0	TRUE	33,6%	229,9946706	0	0	TRUE	33,3%
5581	2	689,9840117	Non-Empty	541,4762163	204,9638838	0	0	TRUE	195,8654822	0	223,4207432	219,2732621	0	0	TRUE	31,8%	229,9946706	0	0	TRUE	33,3%
5581	3	689,9840117	Non-Empty	558,122732	240,7966453	0	0	TRUE	250,8844894	0	230,2893309	238,8228939	0	0	TRUE	34,6%	229,9946706	0	0	TRUE	33,3%
5582	1	1615,129733	Empty	900,9424268	625,3811928	205,7026274	0,127359817	FALSE	613,9356331	0,02550745	613,9356331	560,9413741	247,029805	0,152947345	FALSE	34,7%	503,6426048	304,3285743	0,18842361	FALSE	31,2%
5582	2	1615,129733	Empty	768,9088884	504,5716923	205,7026274	0,127359817	FALSE	504,3501706	0,02550745	504,3501706	478,7351506	247,029805	0,152947345	FALSE	29,6%	590,4775367	304,3285743	0,18842361	FALSE	36,6%
5582	3	1615,129733	Empty	737,6254404	485,1768475	205,7026274	0,127359817	FALSE	496,8439289	0,02550745	496,8439289	575,4532079	247,029805	0,152947345	FALSE	35,6%	521,0095912	304,3285743	0,18842361	FALSE	32,3%
5583	1	655,6701154	Non-Empty	550,0427395	189,267717	0	0	TRUE	197,3956751	0	204,6362189	211,9792259	0	0	TRUE	32,3%	213,0927875	0	0	TRUE	32,5%
5583	2	655,6701154	Non-Empty	561,1947194	194,9002513	0	0	TRUE	197,5087638	0	208,7851674	216,2770521	0	0	TRUE	33,0%	213,0927875	0	0	TRUE	32,5%
5583	3	655,6701154	Non-Empty	651,1415982	271,5021471	0	0	TRUE	260,7656765	0	242,2487291	227,4138374	0	0	TRUE	34,7%	229,4845404	0	0	TRUE	35,0%
5584	1	714,0718529	Non-Empty	665,4148999	277,1930415	0	0	TRUE	265,6753722	0	257,6499646	254,223179	0	0	TRUE	35,6%	184,5354226	0	0	TRUE	25,8%
5584	2	714,0718529	Non-Empty	537,0859428	180,7648467	0	0	TRUE	201,1479397	0	207,9607387	205,1948277	0	0	TRUE	28,7%	232,6750981	0	0	TRUE	32,6%
5584	3	714,0718529	Non-Empty	641,6835773	256,1139646	0	0	TRUE	247,248541	0	248,4611496	254,6538461	0	0	TRUE	35,7%	296,8613321	0	0	TRUE	41,6%
5585	1	696,4225313	Non-Empty	537,1918419	204,16845	0	0	TRUE	227,121531	0	212,0396117	204,8845959	0	0	TRUE	29,4%	250,3991124	0	0	TRUE	36,0%
5585	2	696,4225313	Non-Empty	616,5334292	255,0975838	0	0	TRUE	249,6382112	0	243,3572119	235,1454222	0	0	TRUE	33,8%	234,7491678	0	0	TRUE	33,7%
5585	3	696,4225313	Non-Empty	610,6266788	237,1564975	0	0	TRUE	219,662789	0	241,0257077	256,3925132	0	0	TRUE	36,8%	211,2742511	0	0	TRUE	30,3%
5586	1	1276,599974	Empty	601,821578	383,8570346	165,7822783	0,129862354	FALSE	371,967992	0,09104185	371,967992	403,9240865	178,9699736	0,140192681	FALSE	31,6%	446,0409549	296,7236899	0,232432787	FALSE	34,9%
5586	2	1276,599974	Empty	633,7719157	438,5558632	165,7822783	0,129862354	FALSE	449,4153116	0,09104185	449,4153116	425,368168	178,9699736	0,140192681	FALSE	33,3%	307,6144517	296,7236899	0,232432787	FALSE	24,1%
5586	3	1276,599974	Empty	659,2329832	454,1870767	165,7822783	0,129862354	FALSE	455,2166709	0,09104185	455,2166709	447,3077201	178,9699736	0,140192681	FALSE	35,0%	522,9445679	296,7236899	0,232432787	FALSE	41,0%
5587	1	895,1432056	Non-Empty	781,1480362	277,3321788	0	0	TRUE	276,5164103	0	290,8475992	292,9809804	0	0	TRUE	32,7%	337,9622307	0	0	TRUE	37,8%
5587	2	895,1432056	Non-Empty	783,9719053	285,3462506	0	0	TRUE	289,7206849	0	291,8990204	294,0401137	0	0	TRUE	32,8%	264,889316	0	0	TRUE	29,6%
5587	3	895,1432056	Non-Empty	839,0235309	337,4647763	0	0	TRUE	328,9061105	0	312,396586	308,1221115	0	0	TRUE	34,4%	292,291659	0	0	TRUE	32,7%
5588	1	579,450878	Non-Empty	470,9048819	213,9944356	0	0	TRUE	219,8357918	0	199,5064658	180,3070457	0	0	TRUE	31,1%	230,5342203	0	0	TRUE	39,8%
5588	2	579,450878	Non-Empty	480,6843176	210,5412298	0	0	TRUE	203,1499445	0	203,6496818	184,0515411	0	0	TRUE	31,8%	161,9970197	0	0	TRUE	28,0%
5588	3	579,450878	Non-Empty	416,117086	154,9152126	0	0	TRUE	156,4651416	0	176,2947304	215,0929212	0	0	TRUE	37,1%	186,9196381	0	0	TRUE	32,3%
5589	1	1206,528573	Empty	577,1191866	400,9639084	155,3552938	0,128762217	FALSE	402,8917183	0,086960369	402,8917183	395,5655285	161,5862276	0,133926565	FALSE	32,8%	428,987937	170,9549875	0,14169162	FALSE	35,6%
5589	2	1206,528573	Empty	563,1811739	374,3829068	155,3552938	0,128762217	FALSE	363,6677277	0,086960369	363,6677277	386,0122205	161,5862276	0,133926565	FALSE	32,0%	361,9585719	170,9549875	0,14169162	FALSE	30,0%
5589	3	1206,528573	Empty	600,4774764	431,1817576	155,3552938	0,128762217	FALSE	439,9691268	0,086960369	439,9691268	424,9508239	161,5862276	0,133926565	FALSE	35,2%	415,582064	170,9549875	0,14169162	FALSE	34,4%
5590	1	1295,191852	Empty	700,5232155	483,1580058	144,5540858	0,111608242	FALSE	478,4496707	0,02199553	478,4496707	427,3106589	187,0725643	0,144436181	FALSE	33,0%	451,8111112	162,572112	0,125519715	FALSE	34,9%
5590	2	1295,191852	Empty	650,3747585	433,8056857	144,5540858	0,111608242	FALSE	429,8934875	0,02199553	429,8934875	396,7207088	187,0725643	0,144436181	FALSE	30,6%	481,931852	162,572112	0,125519715	FALSE	37,2%
5590	3	1295,191852	Empty	582,264502	378,2281607	144,5540858	0,111608242	FALSE	386,848694	0,02199553	386,848694	471,1604844	187,0725643	0,144436181	FALSE	36,4%	361,448889	162,572112	0,125519715	FALSE	27,9%
5591	1	1530,92892	Empty	648,3820555	439,3497771	208,2765616	0,136045873	FALSE	446,1720541	0,051836421	446,1720541	435,7153926	250,7524386	0,163791039	FALSE	28,5%	541,4260815	251,9753369	0,164589834	FALSE	35,4%
5591	2	1530,92892	Empty	798,8952916	584,5998965	208,2765616	0,136045873	FALSE	586,1590567	0,051836421	586,1590567	536,8609028	250,7524386	0,163791039	FALSE	35,1%	541,4260815	251,9753369	0,164589834	FALSE	35,4%
5591	3	1530,92892	Empty	731,215239	506,9792465	208,2765616	0,136045873	FALSE	498,5978094	0,051836421	498,5978094	558,3526248	250,7524386	0,163791039	FALSE	36,5%	448,0767571	251,9753369	0,164589834	FALSE	29,3%
5592	1	1550,939771	Empty	828,8854001	533,5839813	195,2669926	0,12590237	FALSE	520,9289855	0,035827065	520,9289855	514,6414882	204,1175659	0,131608957	FALSE	33,2%	355,4236976	347,5191896	0,224070074	FALSE	22,9%
5592	2	1550,939771	Empty	806,9986174	523,7540994	195,2669926	0,12590237	FALSE	523,1560043	0,035827065	523,1560043	501,0523401	204,1175659	0,131608957	FALSE	32,3%	549,291169	347,5191896	0,224070074	FALSE	35,4%
5592	3	1550,939771	Empty	762,995023	493,6016908	195,2669926	0,12590237	FALSE	506,8547816	0,035827065	506,8547816	535,2459431	204,1175659	0,131608957	FALSE	34,5%	646,2249047	347,5191896	0,224070074	FALSE	41,7%
5593	1	1593,15927	Empty	825,4544702	555,2695299	222,7359417	0,139807705	FALSE	550,2018863	0,01921122	550,2018863	524,3986808	237,441273	0,149038001	FALSE	32,9%	601,1921773	255,375802	0,160295211	FALSE	37,7%
5593	2	1593,15927	Empty	810,4734694	539,3259423	222,7359417	0,139807705	FALSE	533,2957118	0,01921122	533,2957118	514,8814787	237,441273	0,149038001	FALSE	32,3%	526,0431552	255,375802	0,160295211	FALSE	33,0%
5593	3	1593,15927	Empty	752,5832201	498,5637977	222,7359417	0,139807705	FALSE	509,6616719	0,01921122	509,6616719	553,8791105	237,441273	0,149038001	FALSE	34,8%	465,9239374	255,375802	0,160295211	FALSE	29,2%
5594	1	878,9299204	Non-Empty	668,6956316	260,5228567	0	0	TRUE	270,0697673	0	275,6623221	260,8189653	0	0	TRUE	29,7%	264,6240621	0	0	TRUE	30,1%
5594	2	878,9299204	Non-Empty	758,5597261	339,0696496	0	0	TRUE	337,2992586	0	312,7077936	295,8696805	0	0	TRUE	33,7%	292,9766401	0	0	TRUE	33,3%
5594	3	878,9299204	Non-Empty	704,8336192	279,3374141	0	0	TRUE	271,5608946	0	290,5598047	322,2412747	0	0	TRUE	36,7%	321,3292182	0	0	TRUE	36,6%
5595	1	755,1021519	Non-Empty	581,6626703	197,7373627	0	0	TRUE	204,131414	0	228,0379022	238,07622	0	0	TRUE	31,5%	246,0445214	0	0	TRUE	32,6%
5595	2	755,1021519	Non-Empty	629,1111473	236,138962	0	0	TRUE	233,4861355	0	246,6398372	257,4970194	0	0	TRUE	34,1%	254,5288152	0	0	TRUE	33,7%
5595	3	755,1021519	Non-Empty	715,2864108	321,2258272	0	0	TRUE	317,4846023	0	280,4244125	259,5289125	0	0	TRUE	34,4%	254,5288152	0	0	TRUE	33,7%
5596	1	916,1617046	Non-Empty	841,5856875	311,1332936	0	0	TRUE	302,0809077	0	310,8502004	303,905366	0	0	TRUE	33,2%	380,8762143	0	0	TRUE	41,6%
5596	2	916,1617046	Non-Empty	785,0297545	295,57781	0	0	TRUE	327,5340635	0	289,9605592	283,4824289	0	0	TRUE	30,9%	288,2306486	0	0	TRUE	31,5%
5596	3	916,1617046	Non-Empty	853,7708565	309,450601	0	0	TRUE	286,5385435	0	315,350945	328,7739097	0	0	TRUE	35,9%	247,0548417	0	0	TRUE	27,0%
5597	1	633,5482501	Non-Empty	509,858579	192,0710975	0	0	TRUE	206,7932445	0	198,0409163	187,4275954	0	0	TRUE	29,6%	202,19625	0	0	TRUE	31,9%
5597	2	633,5482501	Non-Empty	580,5161414	247,8838243	0	0	TRUE	247,7611358	0	225,4859549	21									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5612	1	910,2705797	Non-Empty	699,2096017	272,9698115	0	0	TRUE	282,3662384	0	287,0629134	278,9988925	0	0	TRUE	30,7%	339,1204121	0	0	TRUE	37,3%
5612	2	910,2705797	Non-Empty	789,9443544	348,7377181	0	0	TRUE	343,167299	0	324,314379	315,2039095	0	0	TRUE	34,6%	258,8024197	0	0	TRUE	28,4%
5612	3	910,2705797	Non-Empty	728,0252749	288,5630501	0	0	TRUE	284,7370424	0	298,8932874	316,0677778	0	0	TRUE	34,7%	312,3477479	0	0	TRUE	34,3%
5613	1	1547,457866	Empty	738,0892302	483,6162715	210,474604	0,13601314	FALSE	488,7891397	0,025898731	488,7891397	492,990258	213,1367585	0,137733481	FALSE	31,9%	560,0323706	282,0828739	0,182287919	FALSE	36,2%
5613	2	1547,457866	Empty	770,2086627	517,1058719	210,474604	0,13601314	FALSE	523,6489078	0,025898731	523,6489078	514,4437173	213,1367585	0,137733481	FALSE	33,2%	530,5569827	282,0828739	0,182287919	FALSE	34,3%
5613	3	1547,457866	Empty	818,0974537	546,7357228	210,474604	0,13601314	FALSE	535,0198187	0,025898731	535,0198187	540,0238908	213,1367585	0,137733481	FALSE	34,9%	456,8685129	282,0828739	0,182287919	FALSE	29,5%
5614	1	773,0256878	Non-Empty	676,3840131	239,9076679	0	0	TRUE	247,6444148	0	248,3121607	240,9799016	0	0	TRUE	31,2%	294,0858595	0	0	TRUE	38,0%
5614	2	773,0256878	Non-Empty	734,8715511	282,5038062	0	0	TRUE	274,3491535	0	269,7839381	261,8176518	0	0	TRUE	33,9%	210,0613282	0	0	TRUE	27,2%
5614	3	773,0256878	Non-Empty	694,4093998	250,6142137	0	0	TRUE	251,0321196	0	254,929589	270,2281344	0	0	TRUE	35,0%	268,8785001	0	0	TRUE	34,8%
5615	1	646,8744636	Non-Empty	567,9851589	248,0195873	0	0	TRUE	236,7639056	0	233,5754161	226,2996152	0	0	TRUE	35,0%	184,8212753	0	0	TRUE	28,6%
5615	2	646,8744636	Non-Empty	476,0609662	178,0379109	0	0	TRUE	188,7247456	0	195,7729644	189,674698	0	0	TRUE	29,3%	240,2676579	0	0	TRUE	37,1%
5615	3	646,8744636	Non-Empty	528,9580081	220,8169653	0	0	TRUE	221,3858123	0	217,5260831	230,9001503	0	0	TRUE	35,7%	221,7855304	0	0	TRUE	34,3%
5616	1	1399,335342	Empty	681,5700316	480,4504014	206,5449638	0,147602192	FALSE	472,1141628	0,067526433	472,1141628	470,3030379	197,2449369	0,14095616	FALSE	33,6%	524,7507531	284,3969936	0,203237198	FALSE	37,5%
5616	2	1399,335342	Empty	635,0832611	437,378485	206,5449638	0,147602192	FALSE	432,4571005	0,067526433	432,4571005	438,2258215	197,2449369	0,14095616	FALSE	31,3%	470,930163	284,3969936	0,203237198	FALSE	33,7%
5616	3	1399,335342	Empty	661,0322239	481,5064552	206,5449638	0,147602192	FALSE	494,7640783	0,067526433	494,7640783	490,8064821	197,2449369	0,14095616	FALSE	35,1%	403,6544255	284,3969936	0,203237198	FALSE	28,8%
5617	1	963,6573707	Non-Empty	869,5200782	303,3227282	0	0	TRUE	308,3586489	0	312,9651276	307,2066725	0	0	TRUE	31,9%	340,1143661	0	0	TRUE	35,3%
5617	2	963,6573707	Non-Empty	904,9374132	338,4828466	0	0	TRUE	343,2615507	0	325,7128387	319,71983	0	0	TRUE	33,2%	306,1029295	0	0	TRUE	31,8%
5617	3	963,6573707	Non-Empty	902,8996912	321,8517958	0	0	TRUE	312,0371711	0	324,9794043	336,7308682	0	0	TRUE	34,9%	317,440075	0	0	TRUE	32,9%
5618	1	964,5598019	Non-Empty	876,7571727	350,6495026	0	0	TRUE	360,5262012	0	328,7387683	317,6295948	0	0	TRUE	32,9%	335,9702681	0	0	TRUE	34,8%
5618	2	964,5598019	Non-Empty	846,8829653	304,265858	0	0	TRUE	297,6331196	0	317,5374796	306,8068349	0	0	TRUE	31,8%	335,9702681	0	0	TRUE	34,8%
5618	3	964,5598019	Non-Empty	848,8727703	309,6444413	0	0	TRUE	306,4004811	0	318,283554	340,1233723	0	0	TRUE	35,3%	292,6192657	0	0	TRUE	30,3%
5619	1	700,9972843	Non-Empty	561,0717839	244,5821197	0	0	TRUE	239,5968534	0	240,4813678	230,2321937	0	0	TRUE	32,8%	274,3032851	0	0	TRUE	39,1%
5619	2	700,9972843	Non-Empty	486,3516127	208,3876921	0	0	TRUE	241,9281694	0	208,4555032	199,5712526	0	0	TRUE	28,5%	220,9665353	0	0	TRUE	31,5%
5619	3	700,9972843	Non-Empty	588,0870812	248,0274724	0	0	TRUE	219,4722615	0	252,0604132	271,193838	0	0	TRUE	38,7%	205,7274639	0	0	TRUE	29,3%
5620	1	670,2008688	Non-Empty	614,2258165	219,4453302	0	0	TRUE	225,6165997	0	219,7770093	214,3094369	0	0	TRUE	32,0%	233,1133457	0	0	TRUE	34,8%
5620	2	670,2008688	Non-Empty	639,6447947	237,5618819	0	0	TRUE	236,430725	0	228,8722099	223,1783687	0	0	TRUE	33,3%	230,9741775	0	0	TRUE	30,4%
5620	3	670,2008688	Non-Empty	619,1855251	213,1936567	0	0	TRUE	208,1535441	0	221,5516497	232,7130632	0	0	TRUE	34,7%	233,1133457	0	0	TRUE	34,8%
5621	1	885,3588302	Non-Empty	742,1595349	268,0479971	0	0	TRUE	251,4001134	0	291,0320266	280,346378	0	0	TRUE	31,7%	322,8955734	0	0	TRUE	36,5%
5621	2	885,3588302	Non-Empty	782,8103059	328,475377	0	0	TRUE	331,6041022	0	306,9729068	295,7019665	0	0	TRUE	33,4%	333,3115596	0	0	TRUE	37,6%
5621	3	885,3588302	Non-Empty	732,7799518	288,8354561	0	0	TRUE	302,3546145	0	287,3538968	309,3104857	0	0	TRUE	34,9%	229,1516972	0	0	TRUE	25,9%
5622	1	656,5098425	Non-Empty	510,3529198	221,3225627	0	0	TRUE	224,0081494	0	218,7510439	225,9354903	0	0	TRUE	34,4%	243,4249978	0	0	TRUE	37,1%
5622	2	656,5098425	Non-Empty	447,0882391	157,3786605	0	0	TRUE	159,3850257	0	191,6340932	197,9279369	0	0	TRUE	30,1%	184,4128771	0	0	TRUE	28,1%
5622	3	656,5098425	Non-Empty	574,2165149	277,8086193	0	0	TRUE	273,1166673	0	246,1247054	232,6464152	0	0	TRUE	35,4%	228,6719676	0	0	TRUE	34,8%
5623	1	711,2950595	Non-Empty	611,8590964	241,7708456	0	0	TRUE	221,3137209	0	247,253273	228,138879	0	0	TRUE	32,1%	201,9726712	0	0	TRUE	28,4%
5623	2	711,2950595	Non-Empty	620,5507868	265,2019121	0	0	TRUE	259,4841635	0	250,7655995	231,3796783	0	0	TRUE	32,5%	272,2240351	0	0	TRUE	38,3%
5623	3	711,2950595	Non-Empty	527,7785548	204,3223019	0	0	TRUE	230,4971751	0	213,2761871	251,7765022	0	0	TRUE	35,4%	237,0983532	0	0	TRUE	33,3%
5624	1	785,4997055	Non-Empty	669,6765482	258,8568033	0	0	TRUE	247,774205	0	265,0414559	263,4137159	0	0	TRUE	33,5%	274,9248969	0	0	TRUE	35,0%
5624	2	785,4997055	Non-Empty	594,0054652	228,4233075	0	0	TRUE	262,5782963	0	235,0927082	233,6488971	0	0	TRUE	29,7%	265,1061506	0	0	TRUE	33,8%
5624	3	785,4997055	Non-Empty	721,0291316	298,2195946	0	0	TRUE	275,1472042	0	285,3655415	288,4370925	0	0	TRUE	36,7%	245,468658	0	0	TRUE	31,3%
5625	1	929,8348508	Non-Empty	879,0378388	369,44031	0	0	TRUE	355,673164	0	338,1256884	311,3241351	0	0	TRUE	33,5%	317,5045832	0	0	TRUE	34,1%
5625	2	929,8348508	Non-Empty	819,6896129	316,1065348	0	0	TRUE	308,3538396	0	315,2971378	290,305091	0	0	TRUE	31,2%	317,5045832	0	0	TRUE	34,1%
5625	3	929,8348508	Non-Empty	718,5985479	244,288006	0	0	TRUE	265,8078472	0	276,4120245	328,2056247	0	0	TRUE	35,3%	294,8256844	0	0	TRUE	31,7%
5626	1	821,321409	Non-Empty	725,4920588	259,4875339	0	0	TRUE	264,4545581	0	266,6961525	270,8325428	0	0	TRUE	33,0%	297,0737011	0	0	TRUE	36,2%
5626	2	821,321409	Non-Empty	708,0968858	245,2890769	0	0	TRUE	253,4528172	0	260,3015605	264,3387723	0	0	TRUE	32,2%	262,1238539	0	0	TRUE	31,9%
5626	3	821,321409	Non-Empty	800,647112	316,5447983	0	0	TRUE	303,4140337	0	294,3236961	286,150094	0	0	TRUE	34,8%	262,1238539	0	0	TRUE	31,9%
5627	1	826,4938069	Empty	436,7475241	274,8738129	75,94436262	0,091887395	FALSE	271,106441	0,103742452	271,106441	275,1098454	85,8347573	0,103854084	FALSE	33,3%	285,3371476	116,2560087	0,140661682	FALSE	34,5%
5627	2	826,4938069	Empty	420,9250866	255,4888363	75,94436262	0,091887395	FALSE	248,1589255	0,103742452	248,1589255	265,1431985	85,8347573	0,103854084	FALSE	32,1%	285,3371476	116,2560087	0,140661682	FALSE	34,5%
5627	3	826,4938069	Empty	443,1402144	296,1311577	75,94436262	0,091887395	FALSE	307,2284404	0,103742452	307,2284404	286,240763	85,8347573	0,103854084	FALSE	34,6%	255,8195117	116,2560087	0,140661682	FALSE	31,0%
5628	1	1271,605583	Empty	627,0895026	402,5374312	166,7620252	0,131142885	FALSE	408,1453646	0,006632503	408,1453646	399,5644062	169,7350502	0,133480894	FALSE	31,4%	324,9658713	244,3335852	0,192145732	FALSE	25,6%
5628	2	1271,605583	Empty	682,1568721	445,7293937	166,7620252	0,131142885	FALSE	439,46192	0,006632503	439,46192	434,6518391	169,7350502	0,133480894	FALSE	34,2%	409,7395768	244,3335852	0,192145732	FALSE	32,2%
5628	3	1271,605583	Empty	652,8392227	423,3387583	166,7620252	0,131142885	FALSE	423,9982986	0,006632503	423,9982986	437,3893379	169,7350502	0,133480894	FALSE	34,4%	536,9001351	244,3335852	0,192145732	FALSE	42,2%
5629	1	441,1312309	Non-Empty	383,7784519	150,834945	0	0	TRUE	139,0775374	0	153,2527072	152,0672189	0	0	TRUE	34,5%	156,7176741	0	0	TRUE	35,5%
5629	2	441,1312309	Non-Empty	343,2626904	123,1																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5643	1	739,5762239	Non-Empty	630,8551572	239,0410085	0	0	TRUE	246,1644988	0	240,9461328	234,435505	0	0	TRUE	31,7%	197,2203264	0	0	TRUE	26,7%
5643	2	739,5762239	Non-Empty	660,4485757	252,6430128	0	0	TRUE	243,7750888	0	252,2489171	245,4328757	0	0	TRUE	33,2%	254,7429216	0	0	TRUE	34,4%
5643	3	739,5762239	Non-Empty	645,0854077	247,8922026	0	0	TRUE	249,6366364	0	246,3811741	259,7078433	0	0	TRUE	35,1%	287,612976	0	0	TRUE	38,9%
5644	1	606,1493946	Non-Empty	571,5198642	222,087953	0	0	TRUE	213,4636593	0	212,718701	200,0288094	0	0	TRUE	33,0%	185,8858143	0	0	TRUE	30,7%
5644	2	606,1493946	Non-Empty	558,9720398	214,6081692	0	0	TRUE	211,051916	0	208,0476099	195,6371399	0	0	TRUE	32,3%	242,4597578	0	0	TRUE	40,0%
5644	3	606,1493946	Non-Empty	498,080343	169,4532724	0	0	TRUE	181,6338193	0	185,3839146	210,4834452	0	0	TRUE	34,7%	177,8038224	0	0	TRUE	29,3%
5645	1	954,0196668	Empty	466,0833341	305,9184499	92,1337663	0,096574284	FALSE	316,6006993	0,111096613	316,6006993	290,2104661	105,8223841	0,110922644	FALSE	30,4%	345,9631759	102,0245435	0,106941761	FALSE	36,3%
5645	2	954,0196668	Empty	523,2680361	329,0370377	92,1337663	0,096574284	FALSE	305,6531729	0,111096613	305,6531729	325,8169721	105,8223841	0,110922644	FALSE	34,2%	283,0607803	102,0245435	0,106941761	FALSE	29,7%
5645	3	954,0196668	Empty	477,2096973	319,0641791	92,1337663	0,096574284	FALSE	331,7657945	0,111096613	331,7657945	337,9922285	105,8223841	0,110922644	FALSE	35,4%	324,9957107	102,0245435	0,106941761	FALSE	34,1%
5646	1	605,8595553	Non-Empty	527,3445636	205,6551003	0	0	TRUE	208,3835366	0	202,3266805	203,0436586	0	0	TRUE	33,5%	208,6849579	0	0	TRUE	34,4%
5646	2	605,8595553	Non-Empty	493,8355545	171,0920279	0	0	TRUE	172,7664008	0	189,4702541	190,1416733	0	0	TRUE	31,4%	215,4167308	0	0	TRUE	35,6%
5646	3	605,8595553	Non-Empty	557,9331358	229,1124271	0	0	TRUE	224,7096179	0	214,0626207	212,6742235	0	0	TRUE	35,1%	181,7578666	0	0	TRUE	30,0%
5647	1	833,9919104	Non-Empty	735,0878234	304,2892576	0	0	TRUE	312,0813316	0	285,1742548	270,8991058	0	0	TRUE	32,5%	333,5967642	0	0	TRUE	40,0%
5647	2	833,9919104	Non-Empty	718,1333818	276,5807151	0	0	TRUE	273,6186883	0	278,5968499	264,6509502	0	0	TRUE	31,7%	235,4800688	0	0	TRUE	28,2%
5647	3	833,9919104	Non-Empty	696,5426247	253,1219377	0	0	TRUE	248,2918905	0	270,2208057	298,4418544	0	0	TRUE	35,8%	264,9150774	0	0	TRUE	31,8%
5648	1	1544,205996	Empty	746,0805372	495,7007122	217,2707872	0,14070065	FALSE	477,4823107	0,096004692	511,6456024	233,2829593	0,151069844	FALSE	33,1%	509,5879785	256,9811911	0,166416393	FALSE	33,0%	
5648	2	1544,205996	Empty	728,0405594	499,206901	217,2707872	0,14070065	FALSE	502,5346661	0,096004692	502,5346661	499,2741829	233,2829593	0,151069844	FALSE	32,3%	525,0300385	256,9811911	0,166416393	FALSE	34,0%
5648	3	1544,205996	Empty	766,5691696	549,2983824	217,2707872	0,14070065	FALSE	564,1890187	0,096004692	564,1890187	533,2862103	233,2829593	0,151069844	FALSE	34,5%	509,5879785	256,9811911	0,166416393	FALSE	33,0%
5649	1	612,456587	Non-Empty	542,1012189	219,3485784	0	0	TRUE	230,0735714	0	285,8501	202,2987939	0	0	TRUE	33,0%	208,6390571	0	0	TRUE	34,1%
5649	2	612,456587	Non-Empty	512,4786236	179,6609419	0	0	TRUE	180,3208937	0	194,601621	191,2443725	0	0	TRUE	31,2%	174,9875963	0	0	TRUE	28,6%
5649	3	612,456587	Non-Empty	558,3096447	213,4470666	0	0	TRUE	202,0621219	0	212,0048659	218,9134205	0	0	TRUE	35,7%	228,8299336	0	0	TRUE	37,4%
5650	1	588,2530864	Non-Empty	390,82186	157,8150996	0	0	TRUE	177,8418991	0	170,6323693	172,3588694	0	0	TRUE	29,3%	227,948071	0	0	TRUE	38,8%
5650	2	588,2530864	Non-Empty	457,2037217	181,4732088	0	0	TRUE	158,7762557	0	199,6146129	201,6343624	0	0	TRUE	34,3%	205,8885803	0	0	TRUE	35,0%
5650	3	588,2530864	Non-Empty	499,3281843	248,9647781	0	0	TRUE	251,6349317	0	218,0061042	214,2598546	0	0	TRUE	36,4%	154,4164352	0	0	TRUE	26,3%
5651	1	1220,201783	Empty	601,1206663	409,6727249	157,2933133	0,128907625	FALSE	417,7058885	0,052359301	417,7058885	374,0883679	192,8776703	0,158070307	FALSE	30,7%	421,2601395	210,7274801	0,172698879	FALSE	34,5%
5651	2	1220,201783	Empty	652,020704	445,8442169	157,2933133	0,128907625	FALSE	439,1488348	0,052359301	439,1488348	405,7643908	192,8776703	0,158070307	FALSE	33,3%	377,6815044	210,7274801	0,172698879	FALSE	31,0%
5651	3	1220,201783	Empty	565,5037283	364,6848417	157,2933133	0,128907625	FALSE	363,3470602	0,052359301	363,3470602	440,3490247	192,8776703	0,158070307	FALSE	36,1%	421,2601395	210,7274801	0,172698879	FALSE	34,5%
5652	1	855,6851351	Non-Empty	709,3534139	261,9714662	0	0	TRUE	259,8934652	0	276,9593035	268,9849662	0	0	TRUE	31,4%	248,7456788	0	0	TRUE	29,1%
5652	2	855,6851351	Non-Empty	741,8764338	307,294506	0	0	TRUE	318,0165247	0	289,6575619	281,3176106	0	0	TRUE	32,9%	328,344296	0	0	TRUE	38,4%
5652	3	855,6851351	Non-Empty	740,3671272	286,4191629	0	0	TRUE	277,7751452	0	289,0682696	305,3825582	0	0	TRUE	35,7%	278,5951603	0	0	TRUE	32,6%
5653	1	641,5555081	Non-Empty	572,3441698	239,5577212	0	0	TRUE	199,594399	0	241,3782195	218,0506928	0	0	TRUE	34,0%	178,6610276	0	0	TRUE	27,8%
5653	2	641,5555081	Non-Empty	519,1652774	216,2160894	0	0	TRUE	206,4900278	0	218,9507588	197,7906903	0	0	TRUE	30,8%	259,8705856	0	0	TRUE	40,5%
5653	3	641,5555081	Non-Empty	429,7154399	185,9816975	0	0	TRUE	235,4710813	0	181,2265298	225,714125	0	0	TRUE	35,2%	203,023895	0	0	TRUE	31,6%
5654	1	528,3002843	Non-Empty	445,6715201	231,0813585	0	0	TRUE	231,7898883	0	200,5187541	187,125083	0	0	TRUE	35,4%	171,0686635	0	0	TRUE	32,4%
5654	2	528,3002843	Non-Empty	360,1196678	146,0452056	0	0	TRUE	147,2694347	0	162,0268378	151,2042383	0	0	TRUE	28,6%	155,9743696	0	0	TRUE	29,5%
5654	3	528,3002843	Non-Empty	368,4051704	151,1737202	0	0	TRUE	149,2409613	0	165,7546925	189,970963	0	0	TRUE	36,0%	201,2572512	0	0	TRUE	38,1%
5655	1	1199,043313	Empty	649,4635634	423,699975	164,7363644	0,137389836	FALSE	400,0373148	0,147666814	400,0373148	415,895097	193,7834948	0,161615092	FALSE	34,7%	474,0403794	222,123007	0,185250195	FALSE	39,5%
5655	2	1199,043313	Empty	538,8369458	374,1005813	164,7363644	0,137389836	FALSE	411,4651452	0,147666814	411,4651452	345,0534509	193,7834948	0,161615092	FALSE	28,8%	432,2132871	222,123007	0,185250195	FALSE	36,0%
5655	3	1199,043313	Empty	617,0455884	401,2427563	164,7363644	0,137389836	FALSE	387,5408525	0,147666814	387,5408525	438,0947647	193,7834948	0,161615092	FALSE	36,5%	292,7896461	222,123007	0,185250195	FALSE	24,4%
5656	1	739,547713	Non-Empty	689,6009329	264,5894423	0	0	TRUE	242,1232376	0	261,9130525	251,571427	0	0	TRUE	34,0%	188,9955267	0	0	TRUE	25,6%
5656	2	739,547713	Non-Empty	603,2768383	235,4097116	0	0	TRUE	270,0878707	0	229,1268337	220,0797706	0	0	TRUE	29,8%	254,7331011	0	0	TRUE	34,4%
5656	3	739,547713	Non-Empty	654,3057993	239,5485591	0	0	TRUE	227,3366047	0	248,5078268	267,8965154	0	0	TRUE	36,2%	295,8190852	0	0	TRUE	40,0%
5657	1	1310,238862	Empty	620,0876581	414,2171628	176,4541262	0,13467325	FALSE	406,2598122	0,053880671	406,2598122	387,4222721	213,6370778	0,163052008	FALSE	29,6%	316,2645529	249,0453008	0,190076259	FALSE	24,1%
5657	2	1310,238862	Empty	723,3042056	515,9443269	176,4541262	0,13467325	FALSE	506,4975929	0,053880671	506,4975929	451,9105567	213,6370778	0,163052008	FALSE	34,5%	496,9871546	249,0453008	0,190076259	FALSE	37,9%
5657	3	1310,238862	Empty	560,5864324	380,0737323	176,4541262	0,13467325	FALSE	397,4814569	0,053880671	397,4814569	470,9060332	213,6370778	0,163052008	FALSE	35,9%	496,9871546	249,0453008	0,190076259	FALSE	37,9%
5658	1	695,2933387	Empty	379,1648308	255,2653488	61,91394524	0,089047229	FALSE	245,0590798	0,138804466	245,0590798	217,9830689	64,29873455	0,092477133	FALSE	31,4%	254,1932636	68,15387648	0,09802176	FALSE	36,6%
5658	2	695,2933387	Empty	382,5356852	254,3575196	61,91394524	0,089047229	FALSE	239,8725671	0,138804466	239,8725671	219,9209838	64,29873455	0,092477133	FALSE	31,6%	261,6695361	68,15387648	0,09802176	FALSE	37,6%
5658	3	695,2933387	Empty	274,6724617	185,6704703	61,91394524	0,089047229	FALSE	210,3616918	0,138804466	210,3616918	257,3892859	64,29873455	0,092477133	FALSE	37,0%	179,430539	68,15387648	0,09802176	FALSE	25,8%
5659	1	884,3356858	Non-Empty	665,7808895	334,578594	0	0	TRUE	326,6927605	0	310,208625	310,208625	0	0	TRUE	35,1%	244,2450942	13,84447802	0,015655229	FALSE	27,6%
5659	2	884,3356858	Non-Empty	563,6967009	256,799851	0	0	TRUE	273,2194632	0	268,8352056	262,6443342	0	0	TRUE	29,7%	311,6230512	13,84447802	0,015655229	FALSE	35,2%
5659	3	884,3356858	Non-Empty	624,8074813	292,9572																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5674	1	963,3050142	Empty	440,4407671	295,8661278	115,772508	0,120182607	FALSE	278,2631439	0,162900885	278,2631439	277,6301166	188,2756135	0,195447559	FALSE	28,8%	355,5054219	257,0352585	0,266826451	FALSE	36,9%
5674	2	963,3050142	Empty	509,3294289	393,5569209	115,772508	0,120182607	FALSE	404,7560682	0,162900885	404,7560682	321,0538153	188,2756135	0,195447559	FALSE	33,3%	252,2941704	257,0352585	0,266826451	FALSE	26,2%
5674	3	963,3050142	Empty	394,4497842	273,8819655	115,772508	0,120182607	FALSE	280,2858021	0,162900885	280,2858021	364,6210822	188,2756135	0,195447559	FALSE	37,9%	355,5054219	257,0352585	0,266826451	FALSE	36,9%
5675	1	622,2775228	Non-Empty	548,1240666	205,5131497	0	0	TRUE	200,9685994	0	208,6266171	200,6970112	0	0	TRUE	32,3%	209,5424311	0	0	TRUE	33,7%
5675	2	622,2775228	Non-Empty	545,4105956	215,2793967	0	0	TRUE	223,2145644	0	207,3948076	199,703467	0	0	TRUE	32,1%	247,641055	0	0	TRUE	39,8%
5675	3	622,2775228	Non-Empty	542,9419603	201,4849764	0	0	TRUE	198,094359	0	206,4560981	221,8770446	0	0	TRUE	35,7%	165,0940367	0	0	TRUE	26,5%
5676	1	804,5801409	Non-Empty	742,9326484	262,7779508	0	0	TRUE	254,0540606	0	269,3930534	270,853406	0	0	TRUE	33,7%	294,6349812	0	0	TRUE	36,6%
5676	2	804,5801409	Non-Empty	704,636371	245,0670845	0	0	TRUE	256,9286054	0	255,5065307	256,8916058	0	0	TRUE	31,9%	249,3065225	0	0	TRUE	31,0%
5676	3	804,5801409	Non-Empty	771,3035437	296,7351056	0	0	TRUE	293,5974749	0	279,6805568	276,8351291	0	0	TRUE	34,4%	260,6386372	0	0	TRUE	32,4%
5677	1	697,2075663	Non-Empty	593,5241776	210,5253175	0	0	TRUE	198,7988705	0	228,4946877	219,2935645	0	0	TRUE	31,5%	209,1622699	0	0	TRUE	30,0%
5677	2	697,2075663	Non-Empty	616,9140345	263,0268508	0	0	TRUE	280,4120801	0	237,499305	227,9355799	0	0	TRUE	32,7%	240,1492728	0	0	TRUE	34,4%
5677	3	697,2075663	Non-Empty	600,5865934	223,655398	0	0	TRUE	217,9966157	0	231,2135736	249,9784219	0	0	TRUE	35,9%	247,8960236	0	0	TRUE	35,6%
5678	1	1043,21001	Empty	507,5181032	324,5163786	119,2247557	0,114286438	FALSE	330,7285771	0,007648242	330,7285771	313,4148276	130,424571	0,125022354	FALSE	30,0%	367,4944354	219,175319	0,210097024	FALSE	35,2%
5678	2	1043,21001	Empty	585,2341392	387,4200699	119,2247557	0,114286438	FALSE	378,8199236	0,007648242	378,8199236	361,4079098	130,424571	0,125022354	FALSE	34,6%	272,6571618	219,175319	0,210097024	FALSE	26,1%
5678	3	1043,21001	Empty	518,0995371	331,2735618	119,2247557	0,114286438	FALSE	333,6615096	0,007648242	333,6615096	368,3872727	130,424571	0,125022354	FALSE	35,3%	403,058413	219,175319	0,210097024	FALSE	38,6%
5679	1	498,5957717	Non-Empty	416,1677047	181,6839008	0	0	TRUE	178,0048254	0	174,22143	177,0668695	0	0	TRUE	35,5%	155,4761008	0	0	TRUE	31,2%
5679	2	498,5957717	Non-Empty	337,8689256	113,7084016	0	0	TRUE	120,3526063	0	141,4429969	143,7530887	0	0	TRUE	28,8%	150,114856	0	0	TRUE	30,1%
5679	3	498,5957717	Non-Empty	436,9733271	203,2034693	0	0	TRUE	200,23834	0	182,9313449	177,7758135	0	0	TRUE	35,7%	193,0048148	0	0	TRUE	38,7%
5680	1	562,5457871	Non-Empty	480,694464	213,0116653	0	0	TRUE	233,3152169	0	189,5630764	179,2330325	0	0	TRUE	31,9%	185,1416514	0	0	TRUE	32,9%
5680	2	562,5457871	Non-Empty	469,4332041	173,9430789	0	0	TRUE	166,439304	0	185,1221701	175,0341288	0	0	TRUE	31,1%	192,2624842	0	0	TRUE	34,2%
5680	3	562,5457871	Non-Empty	476,3771698	175,5910429	0	0	TRUE	162,7912662	0	187,8605405	208,2786259	0	0	TRUE	37,0%	185,1416514	0	0	TRUE	32,9%
5681	1	762,5979692	Non-Empty	691,7571973	250,617566	0	0	TRUE	255,0975291	0	251,2710173	248,5065547	0	0	TRUE	32,6%	274,8899656	0	0	TRUE	36,0%
5681	2	762,5979692	Non-Empty	694,6229765	247,9955327	0	0	TRUE	246,9876833	0	252,311971	249,536056	0	0	TRUE	32,7%	266,0225474	0	0	TRUE	34,9%
5681	3	762,5979692	Non-Empty	713,0765785	263,9848705	0	0	TRUE	260,5127568	0	259,0149809	264,5553586	0	0	TRUE	34,7%	221,6854562	0	0	TRUE	29,1%
5682	1	710,1767908	Non-Empty	600,8274255	224,1067394	0	0	TRUE	217,9756329	0	234,1967342	241,209365	0	0	TRUE	34,0%	255,9939595	0	0	TRUE	36,0%
5682	2	710,1767908	Non-Empty	562,388265	194,5841833	0	0	TRUE	197,3696812	0	219,2135203	225,7775037	0	0	TRUE	31,8%	239,4782202	0	0	TRUE	33,7%
5682	3	710,1767908	Non-Empty	658,7298391	291,4858681	0	0	TRUE	294,8314768	0	256,7665364	243,1899222	0	0	TRUE	34,2%	214,7046112	0	0	TRUE	30,2%
5683	1	742,2048182	Non-Empty	627,821713	239,1221064	0	0	TRUE	222,3084808	0	250,8109372	229,1935285	0	0	TRUE	30,9%	238,8705162	0	0	TRUE	32,2%
5683	2	742,2048182	Non-Empty	676,2184743	296,9148891	0	0	TRUE	289,4972848	0	270,1451476	246,8613222	0	0	TRUE	33,3%	307,1192351	0	0	TRUE	41,4%
5683	3	742,2048182	Non-Empty	553,8225737	206,1678227	0	0	TRUE	230,3990526	0	221,2487334	266,1499676	0	0	TRUE	35,9%	196,2150669	0	0	TRUE	26,4%
5684	1	1050,855612	Empty	527,153787	340,0446504	145,2900992	0,13825886	FALSE	327,4352521	0,133271311	327,4352521	353,3499757	155,8365043	0,148294878	FALSE	33,6%	331,8491406	129,7474605	0,1234684	FALSE	31,6%
5684	2	1050,855612	Empty	472,6582391	327,3681399	145,2900992	0,13825886	FALSE	356,5777791	0,133271311	356,5777791	316,8217348	155,8365043	0,148294878	FALSE	30,1%	342,9107786	129,7474605	0,1234684	FALSE	32,6%
5684	3	1050,855612	Empty	574,5428007	383,4428215	145,2900992	0,13825886	FALSE	366,8425805	0,133271311	366,8425805	380,6839013	155,8365043	0,148294878	FALSE	36,2%	376,0956926	129,7474605	0,1234684	FALSE	35,8%
5685	1	1276,379942	Empty	665,2197208	426,9102923	163,9314752	0,1284347	FALSE	419,0156034	0,030398896	419,0156034	412,0130512	183,3393166	0,14364008	FALSE	32,3%	400,4329229	174,0187649	0,136337746	FALSE	31,4%
5685	2	1276,379942	Empty	681,8043409	450,7888995	163,9314752	0,1284347	FALSE	450,1881976	0,030398896	450,1881976	422,2849655	183,3393166	0,14364008	FALSE	33,1%	463,0005671	174,0187649	0,136337746	FALSE	36,3%
5685	3	1276,379942	Empty	620,6000987	398,6807499	163,9314752	0,1284347	FALSE	407,1761407	0,030398896	407,1761407	442,0819251	183,3393166	0,14364008	FALSE	34,6%	412,9464517	174,0187649	0,136337746	FALSE	32,4%
5686	1	869,9383314	Non-Empty	813,1605053	350,6921854	0	0	TRUE	351,3392479	0	313,107756	302,9525437	0	0	TRUE	34,8%	274,7173678	0	0	TRUE	31,6%
5686	2	869,9383314	Non-Empty	689,9607415	234,2730129	0	0	TRUE	241,7006666	0	265,6696409	257,0530176	0	0	TRUE	29,5%	331,9501528	0	0	TRUE	38,2%
5686	3	869,9383314	Non-Empty	756,1632318	284,9731331	0	0	TRUE	756,1632318	0	291,1609345	309,9327701	0	0	TRUE	35,6%	263,2708108	0	0	TRUE	30,3%
5687	1	766,0645568	Non-Empty	701,3177713	266,0727984	0	0	TRUE	268,7974834	0	258,2988099	248,8165435	0	0	TRUE	32,5%	195,9700029	0	0	TRUE	25,6%
5687	2	766,0645568	Non-Empty	701,0814283	267,1613342	0	0	TRUE	271,210898	0	258,2117636	248,7326927	0	0	TRUE	32,5%	293,9550044	0	0	TRUE	38,4%
5687	3	766,0645568	Non-Empty	677,5743312	232,8304243	0	0	TRUE	226,0561754	0	249,5539833	268,5153206	0	0	TRUE	35,1%	276,1395496	0	0	TRUE	36,0%
5688	1	757,9861356	Non-Empty	636,9771015	224,6885792	0	0	TRUE	224,6126653	0	242,0605694	239,4475683	0	0	TRUE	31,6%	252,6620452	0	0	TRUE	33,3%
5688	2	757,9861356	Non-Empty	663,8552687	262,7334784	0	0	TRUE	273,8242965	0	252,2746641	249,5514037	0	0	TRUE	32,9%	306,803912	0	0	TRUE	40,5%
5688	3	757,9861356	Non-Empty	693,7915905	270,564078	0	0	TRUE	259,5491738	0	263,6509021	268,9871636	0	0	TRUE	35,5%	198,5201784	0	0	TRUE	26,2%
5689	1	1334,290373	Empty	669,9243696	420,9081491	157,6798504	0,118175064	FALSE	428,3749284	0,015727488	428,3749284	416,3565328	162,2314667	0,121586328	FALSE	31,2%	471,7188186	233,5504617	0,175037208	FALSE	35,4%
5689	2	1334,290373	Empty	738,0960354	471,1627405	157,6798504	0,118175064	FALSE	460,7124455	0,015727488	460,7124455	458,7250742	162,2314667	0,121586328	FALSE	34,4%	377,3750549	233,5504617	0,175037208	FALSE	28,3%
5689	3	1334,290373	Empty	695,7189672	442,219483	157,6798504	0,118175064	FALSE	445,2029988	0,015727488	445,2029988	459,2087657	162,2314667	0,121586328	FALSE	34,4%	485,1964991	233,5504617	0,175037208	FALSE	36,4%
5690	1	811,3970636	Non-Empty	660,9057649	263,4475343	0	0	TRUE	260,1634492	0	268,946162	250,6857259	0	0	TRUE	30,9%	225,3880732	0	0	TRUE	27,8%
5690	2	811,3970636	Non-Empty	702,6561959	309,4014565	0	0	TRUE	310,3208627	0	285,9359036	266,5219277	0	0	TRUE	32,8%	281,7350915	0	0	TRUE	34,7%
5690	3	811,3970636	Non-Empty	630,3575394	238,5480728	0	0	TRUE	240,9127516	0	256,5149979	294,1894099	0	0	TRUE	36,3%	304,2738988	0	0	TRUE	37,5%
5691	1	818,3262044	Non-Empty	710,2307804	273,963868	0	0														

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5705	1	783,9712728	Non-Empty	682,7927497	235,4872688	0	0	TRUE	258,2709161	0	243,9524522	241,1573795	0	0	TRUE	30,8%	233,3247836	0	0	TRUE	29,8%
5705	2	783,9712728	Non-Empty	764,3209518	280,102153	0	0	TRUE	265,9724823	0	273,0813567	269,9525411	0	0	TRUE	34,4%	326,654697	0	0	TRUE	41,7%
5705	3	783,9712728	Non-Empty	747,1249557	268,381851	0	0	TRUE	259,7278744	0	266,937464	272,8613523	0	0	TRUE	34,8%	223,9917922	0	0	TRUE	28,6%
5706	1	878,8033187	Empty	518,5574415	313,7300109	84,79498224	0,096489147	FALSE	302,5638594	0,08209111	302,5638594	308,5933915	89,02578523	0,101303424	FALSE	35,1%	273,4054769	91,56718417	0,10419531	FALSE	31,1%
5706	2	878,8033187	Empty	433,4546378	262,1795393	84,79498224	0,096489147	FALSE	284,5657198	0,08209111	284,5657198	257,9487363	89,02578523	0,101303424	FALSE	29,4%	331,9923649	91,56718417	0,10419531	FALSE	37,8%
5706	3	878,8033187	Empty	507,7750766	302,8937685	84,79498224	0,096489147	FALSE	291,6737395	0,08209111	291,6737395	312,261191	89,02578523	0,101303424	FALSE	35,5%	273,4054769	91,56718417	0,10419531	FALSE	31,1%
5707	1	488,2599596	Non-Empty	326,7484565	111,6110609	0	0	TRUE	142,3283566	0	130,1477079	132,877599	0	0	TRUE	27,2%	134,1373515	0	0	TRUE	27,5%
5707	2	488,2599596	Non-Empty	436,8570505	174,9579143	0	0	TRUE	158,9134693	0	174,0052406	177,655058	0	0	TRUE	36,4%	193,1577862	0	0	TRUE	39,6%
5707	3	488,2599596	Non-Empty	462,2185263	201,6909844	0	0	TRUE	187,0181338	0	184,1070112	177,7273026	0	0	TRUE	36,4%	160,9648218	0	0	TRUE	33,0%
5708	1	682,9063996	Non-Empty	617,1580572	221,5156861	0	0	TRUE	213,5514407	0	228,317827	224,0294853	0	0	TRUE	32,8%	235,4849654	0	0	TRUE	34,5%
5708	2	682,9063996	Non-Empty	622,4809308	228,3272554	0	0	TRUE	221,8517055	0	230,2870258	225,961698	0	0	TRUE	33,1%	259,0334619	0	0	TRUE	37,9%
5708	3	682,9063996	Non-Empty	606,3017884	233,0634581	0	0	TRUE	247,5032534	0	224,3015468	232,9152162	0	0	TRUE	34,1%	188,3879723	0	0	TRUE	27,6%
5709	1	1004,461894	Empty	522,9475392	340,4282356	128,5518896	0,127980853	FALSE	324,5125282	0,139094929	324,5125282	342,6105201	137,5031584	0,136892359	FALSE	34,1%	374,2112937	135,9998058	0,135395685	FALSE	37,3%
5709	2	1004,461894	Empty	486,4307258	311,9174449	128,5518896	0,127980853	FALSE	304,0077603	0,139094929	304,0077603	318,6864293	137,5031584	0,136892359	FALSE	31,7%	285,5823031	135,9998058	0,135395685	FALSE	28,4%
5709	3	1004,461894	Empty	494,8944174	352,1162131	128,5518896	0,127980853	FALSE	375,9416051	0,139094929	375,9416051	343,1649442	137,5031584	0,136892359	FALSE	34,2%	344,6682968	135,9998058	0,135395685	FALSE	34,3%
5710	1	519,1537806	Non-Empty	366,5519815	162,4167791	0	0	TRUE	178,036725	0	161,4848459	150,1929825	0	0	TRUE	28,9%	173,0512602	0	0	TRUE	33,3%
5710	2	519,1537806	Non-Empty	406,5373921	186,5636333	0	0	TRUE	186,3450228	0	179,1004589	166,5768199	0	0	TRUE	32,1%	193,8174114	0	0	TRUE	37,3%
5710	3	519,1537806	Non-Empty	405,3298517	170,1733682	0	0	TRUE	154,7720329	0	178,5684758	202,3839782	0	0	TRUE	39,0%	152,285109	0	0	TRUE	29,3%
5711	1	812,285681	Non-Empty	661,590112	262,1740613	0	0	TRUE	282,1353534	0	259,5612335	261,7049159	0	0	TRUE	32,2%	249,1009422	0	0	TRUE	30,7%
5711	2	812,285681	Non-Empty	663,7093094	236,3350175	0	0	TRUE	228,3380684	0	260,3926569	262,543206	0	0	TRUE	32,3%	324,9142724	0	0	TRUE	40,0%
5711	3	812,285681	Non-Empty	745,1182882	313,7766023	0	0	TRUE	301,8122592	0	292,3317905	288,0375591	0	0	TRUE	35,5%	238,2704664	0	0	TRUE	29,3%
5712	1	1260,680486	Empty	632,0349707	435,5661085	204,178874	0,161959256	FALSE	424,6553394	0,092906253	424,6553394	439,9845621	207,8746105	0,164890797	FALSE	34,9%	464,4612316	266,1604986	0,211124469	FALSE	36,8%
5712	2	1260,680486	Empty	529,4327293	372,2548169	204,178874	0,161959256	FALSE	400,6349976	0,092906253	400,6349976	368,5590804	207,8746105	0,164890797	FALSE	29,2%	451,1909107	266,1604986	0,211124469	FALSE	35,8%
5712	3	1260,680486	Empty	655,8870649	452,8595603	204,178874	0,161959256	FALSE	435,3901487	0,092906253	435,3901487	452,1368432	207,8746105	0,164890797	FALSE	35,9%	345,0283435	266,1604986	0,211124469	FALSE	27,4%
5713	1	911,1251514	Non-Empty	801,0283489	288,0471627	0	0	TRUE	271,9532476	0	303,8725275	297,8232269	0	0	TRUE	32,7%	287,723732	0	0	TRUE	31,6%
5713	2	911,1251514	Non-Empty	782,6756808	304,7391779	0	0	TRUE	323,6899462	0	296,9103874	290,9996846	0	0	TRUE	31,9%	316,4961052	0	0	TRUE	34,7%
5713	3	911,1251514	Non-Empty	818,0829353	318,3388108	0	0	TRUE	315,4819575	0	310,3422365	322,3022398	0	0	TRUE	35,4%	306,9053142	0	0	TRUE	33,7%
5714	1	1349,358135	Empty	712,374994	466,9626396	186,2563181	0,138033272	FALSE	454,0332978	0,116908703	454,0332978	457,0519438	211,5218975	0,156757418	FALSE	33,9%	482,9281745	203,5586815	0,150855934	FALSE	35,8%
5714	2	1349,358135	Empty	629,6026329	429,2116887	186,2563181	0,138033272	FALSE	461,303757	0,116908703	461,303757	403,9461093	211,5218975	0,156757418	FALSE	29,9%	411,9093253	203,5586815	0,150855934	FALSE	30,5%
5714	3	1349,358135	Empty	704,8295452	453,1838063	186,2563181	0,138033272	FALSE	434,0210799	0,116908703	434,0210799	488,3600815	211,5218975	0,156757418	FALSE	36,2%	454,5206348	203,5586815	0,150855934	FALSE	33,7%
5715	1	716,0151424	Non-Empty	593,2489459	214,0655921	0	0	TRUE	208,4780419	0	231,2579693	220,5292109	0	0	TRUE	30,8%	280,1798383	0	0	TRUE	39,1%
5715	2	716,0151424	Non-Empty	652,4579197	272,4052454	0	0	TRUE	265,9483749	0	254,3385784	242,5390405	0	0	TRUE	33,9%	233,4831986	0	0	TRUE	32,6%
5715	3	716,0151424	Non-Empty	591,0956879	229,5443049	0	0	TRUE	241,5887256	0	230,4185947	252,946891	0	0	TRUE	35,3%	202,3521055	0	0	TRUE	28,3%
5716	1	773,1117873	Non-Empty	470,1742896	222,805571	0	0	TRUE	223,132468	0	239,7425227	228,0463054	0	0	TRUE	29,5%	303,181093	0	0	TRUE	39,2%
5716	2	773,1117873	Non-Empty	552,8605809	297,2862537	0	0	TRUE	289,407542	0	281,9043773	268,1512274	0	0	TRUE	34,7%	242,5448744	0	0	TRUE	31,4%
5716	3	773,1117873	Non-Empty	493,1637634	253,0199626	0	0	TRUE	260,5717773	0	251,4648873	276,9142545	0	0	TRUE	35,8%	227,3858198	0	0	TRUE	29,4%
5717	1	1204,528505	Empty	599,4583745	409,117164	165,7261106	0,137585877	FALSE	419,5209457	0,065261737	419,5209457	385,3140968	189,5291778	0,157347192	FALSE	32,0%	411,3024163	169,3212331	0,140570549	FALSE	34,1%
5717	2	1204,528505	Empty	606,5325333	404,7809479	165,7261106	0,137585877	FALSE	403,7743547	0,065261737	403,7743547	389,8611567	189,5291778	0,157347192	FALSE	32,4%	425,9917884	169,3212331	0,140570549	FALSE	35,4%
5717	3	1204,528505	Empty	600,7725741	390,6303932	165,7261106	0,137585877	FALSE	381,2332046	0,065261737	381,2332046	429,3532515	189,5291778	0,157347192	FALSE	35,6%	367,2343003	169,3212331	0,140570549	FALSE	30,5%
5718	1	807,2578518	Non-Empty	703,3125364	260,1994435	0	0	TRUE	259,6692586	0	265,9263788	264,4099412	0	0	TRUE	32,8%	259,1198043	0	0	TRUE	32,1%
5718	2	807,2578518	Non-Empty	668,1959823	247,6498143	0	0	TRUE	269,6865542	0	252,6486145	251,207893	0	0	TRUE	31,1%	259,1198043	0	0	TRUE	32,1%
5718	3	807,2578518	Non-Empty	763,4980569	299,408594	0	0	TRUE	277,902039	0	288,6828585	291,6400176	0	0	TRUE	36,1%	289,0182432	0	0	TRUE	35,8%
5719	1	936,3395579	Non-Empty	842,0082807	294,8987654	0	0	TRUE	287,8834506	0	308,3778565	303,7495053	0	0	TRUE	32,4%	336,6614141	0	0	TRUE	36,0%
5719	2	936,3395579	Non-Empty	853,4183365	322,5766974	0	0	TRUE	331,8292587	0	312,5566854	307,8656154	0	0	TRUE	32,9%	368,2234216	0	0	TRUE	39,3%
5719	3	936,3395579	Non-Empty	861,1955418	318,864095	0	0	TRUE	316,6268486	0	315,405016	324,7244371	0	0	TRUE	34,7%	231,4547222	0	0	TRUE	24,7%
5720	1	1116,893849	Empty	591,5758935	395,8739492	136,9932853	0,1226556	FALSE	382,946241	0,077576418	382,946241	382,6247709	121,9704515	0,109205053	FALSE	34,3%	331,3860872	172,5856187	0,154522848	FALSE	29,7%
5720	2	1116,893849	Empty	531,0932995	345,2789509	136,9932853	0,1226556	FALSE	342,2388386	0,077576418	342,2388386	343,5052954	121,9704515	0,109205053	FALSE	30,8%	441,8481163	172,5856187	0,154522848	FALSE	39,6%
5720	3	1116,893849	Empty	542,5473652	375,7409494	136,9932853	0,1226556	FALSE	391,7087698	0,077576418	391,7087698	390,7637832	121,9704515	0,109205053	FALSE	35,0%	343,659646	172,5856187	0,154522848	FALSE	30,8%
5721	1	1724,892575	Empty	826,0679597	534,0774468	200,370926	0,116164293	FALSE	543,3686557	0,014617952	543,3686557	512,992467	230,7573306	0,133780697	FALSE	29,7%	711,2959071	419,2228698	0,243042886	FALSE	41,2%
5721	2	1724,892575	Empty	962,086505	648,9715413	200,370926	0,116164293	FALSE	637,1382993	0,014617952	637,1382993	597,4606857	230,7573306	0,133780697	FALSE	34,6%	408,9951466	419,			

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5736	1	800,7593414	Non-Empty	697,0526532	294,2156512	0	0	TRUE	299,7743141	0	275,5114554	262,8310646	0	0	TRUE	32,8%	285,9854791	0	0	TRUE	35,7%
5736	2	800,7593414	Non-Empty	670,267706	246,4882928	0	0	TRUE	231,1045445	0	264,9246514	252,7315174	0	0	TRUE	31,6%	285,9854791	0	0	TRUE	35,7%
5736	3	800,7593414	Non-Empty	658,6259767	260,0553973	0	0	TRUE	269,8804828	0	260,3232346	285,1967594	0	0	TRUE	35,6%	228,7883832	0	0	TRUE	28,6%
5737	1	890,1981851	Non-Empty	736,3200641	257,7484377	0	0	TRUE	277,9888051	0	274,6423368	274,3270746	0	0	TRUE	30,8%	312,0282298	0	0	TRUE	35,1%
5737	2	890,1981851	Non-Empty	809,7136289	305,3480344	0	0	TRUE	299,7944337	0	302,0176334	301,6709471	0	0	TRUE	33,9%	302,850929	0	0	TRUE	34,0%
5737	3	890,1981851	Non-Empty	840,6004737	327,1017131	0	0	TRUE	312,4149463	0	313,5382149	314,2001635	0	0	TRUE	35,3%	275,3190263	0	0	TRUE	30,9%
5738	1	589,0787711	Non-Empty	377,2393889	139,5201313	0	0	TRUE	169,832021	0	159,5091501	163,2209692	0	0	TRUE	27,7%	222,700511	0	0	TRUE	37,8%
5738	2	589,0787711	Non-Empty	480,6731423	198,4191645	0	0	TRUE	184,196334	0	203,2443235	207,9738714	0	0	TRUE	35,3%	158,045524	0	0	TRUE	26,8%
5738	3	589,0787711	Non-Empty	535,2596817	251,1394753	0	0	TRUE	235,0504161	0	226,3252975	217,8839304	0	0	TRUE	37,0%	208,3327361	0	0	TRUE	35,4%
5739	1	1226,588947	Empty	644,03538	416,4757329	145,3184837	0,118473662	FALSE	410,4295978	0,050113884	410,4295978	404,4960019	138,8131446	0,11317006	FALSE	33,0%	463,0999085	168,4497578	0,137331873	FALSE	37,8%
5739	2	1226,588947	Empty	632,8395196	404,9332076	145,3184837	0,118473662	FALSE	398,5404076	0,050113884	398,5404076	397,4642752	138,8131446	0,11317006	FALSE	32,4%	362,9701985	168,4497578	0,137331873	FALSE	29,6%
5739	3	1226,588947	Empty	614,2545834	405,1800063	145,3184837	0,118473662	FALSE	417,6189413	0,050113884	417,6189413	424,6286697	138,8131446	0,11317006	FALSE	34,6%	400,5188398	168,4497578	0,137331873	FALSE	32,7%
5740	1	616,5687715	Non-Empty	470,8568701	173,7398638	0	0	TRUE	194,8583241	0	184,764354	182,472578	0	0	TRUE	29,6%	205,5229238	0	0	TRUE	33,3%
5740	2	616,5687715	Non-Empty	525,1540664	210,9929184	0	0	TRUE	215,0672371	0	206,0705874	203,5145337	0	0	TRUE	33,0%	205,5229238	0	0	TRUE	33,3%
5740	3	616,5687715	Non-Empty	575,2642349	231,8359893	0	0	TRUE	206,6432104	0	225,7338301	230,5816598	0	0	TRUE	37,4%	205,5229238	0	0	TRUE	33,3%
5741	1	1409,752545	Empty	709,5354289	478,4762342	197,6024369	0,140168172	FALSE	469,742588	0,048858367	469,742588	466,1871351	189,4658762	0,134396548	FALSE	33,1%	512,6372889	312,3406075	0,221557045	FALSE	36,4%
5741	2	1409,752545	Empty	691,1299374	464,1000035	197,6024369	0,140168172	FALSE	459,3956181	0,048858367	459,3956181	454,0941472	189,4658762	0,134396548	FALSE	32,2%	544,6771195	312,3406075	0,221557045	FALSE	38,6%
5741	3	1409,752545	Empty	676,0638236	467,1763068	197,6024369	0,140168172	FALSE	480,6143384	0,048858367	480,6143384	489,4712622	189,4658762	0,134396548	FALSE	34,7%	352,4381361	312,3406075	0,221557045	FALSE	25,0%
5742	1	617,0447771	Non-Empty	493,1785713	187,4248637	0	0	TRUE	201,5679432	0	193,0021436	193,8884017	0	0	TRUE	31,4%	226,2497516	0	0	TRUE	36,7%
5742	2	617,0447771	Non-Empty	503,59524	187,2473197	0	0	TRUE	190,7961865	0	197,0786374	197,9836146	0	0	TRUE	32,1%	157,6892208	0	0	TRUE	25,6%
5742	3	617,0447771	Non-Empty	579,9613273	242,3725937	0	0	TRUE	224,6806473	0	226,9639961	225,1727609	0	0	TRUE	36,5%	233,1058047	0	0	TRUE	37,8%
5743	1	962,9615239	Non-Empty	878,1540238	328,2291469	0	0	TRUE	322,1815123	0	325,9195007	314,798372	0	0	TRUE	32,7%	373,1475905	0	0	TRUE	38,8%
5743	2	962,9615239	Non-Empty	866,3127412	330,8335763	0	0	TRUE	339,2316538	0	321,524708	310,5535398	0	0	TRUE	32,2%	324,9995143	0	0	TRUE	33,8%
5743	3	962,9615239	Non-Empty	850,126486	303,8988007	0	0	TRUE	301,5483577	0	315,5173151	337,6096121	0	0	TRUE	35,1%	264,8144191	0	0	TRUE	27,5%
5744	1	755,8897975	Non-Empty	571,9754764	223,5400829	0	0	TRUE	219,6778594	0	241,5892816	246,0032529	0	0	TRUE	32,5%	251,9632658	0	0	TRUE	33,3%
5744	2	755,8897975	Non-Empty	578,560992	232,5222359	0	0	TRUE	231,0566498	0	244,3708519	248,8356441	0	0	TRUE	32,9%	244,9642862	0	0	TRUE	32,4%
5744	3	755,8897975	Non-Empty	639,072839	299,8274786	0	0	TRUE	305,1552882	0	269,9296639	261,0509005	0	0	TRUE	34,5%	258,9622454	0	0	TRUE	34,3%
5745	1	996,9997373	Non-Empty	706,2131952	349,9857049	0	0	TRUE	363,7263052	0	334,184361	317,1557741	0	0	TRUE	31,8%	345,1152937	0	0	TRUE	34,6%
5745	2	996,9997373	Non-Empty	696,6057157	329,8852388	0	0	TRUE	333,1328526	0	329,6380436	312,8411173	0	0	TRUE	31,4%	325,9422218	0	0	TRUE	32,7%
5745	3	996,9997373	Non-Empty	704,0850983	317,1287936	0	0	TRUE	300,1405796	0	333,1773327	367,0028459	0	0	TRUE	36,8%	325,9422218	0	0	TRUE	32,7%
5746	1	839,1819976	Non-Empty	754,8712004	310,6909577	0	0	TRUE	295,1606614	0	298,0870697	276,1317	0	0	TRUE	32,9%	271,8476894	0	0	TRUE	32,4%
5746	2	839,1819976	Non-Empty	721,6472192	297,1547121	0	0	TRUE	301,3121514	0	284,9674286	263,9783759	0	0	TRUE	31,5%	271,8476894	0	0	TRUE	32,4%
5746	3	839,1819976	Non-Empty	648,6134172	231,3363278	0	0	TRUE	242,7091847	0	256,1274993	299,0719217	0	0	TRUE	35,6%	295,4866189	0	0	TRUE	35,2%
5747	1	653,4253601	Non-Empty	576,8437243	228,8331304	0	0	TRUE	225,0224945	0	223,5579341	219,5131125	0	0	TRUE	33,6%	226,9793356	0	0	TRUE	34,7%
5747	2	653,4253601	Non-Empty	499,383128	190,955	0	0	TRUE	226,7268299	0	193,5377915	190,0361227	0	0	TRUE	29,1%	178,8322038	0	0	TRUE	27,4%
5747	3	653,4253601	Non-Empty	609,7983819	233,6372298	0	0	TRUE	201,6760357	0	236,3296344	243,876125	0	0	TRUE	37,3%	247,6138207	0	0	TRUE	37,9%
5748	1	1329,414131	Empty	707,9088169	463,2301545	170,484802	0,128240552	FALSE	442,7852263	0,104359796	442,7852263	433,2974599	163,0625953	0,122657486	FALSE	32,6%	469,2049873	187,1543866	0,140779598	FALSE	35,3%
5748	2	1329,414131	Empty	703,7241636	467,5798799	170,484802	0,128240552	FALSE	455,6693665	0,104359796	455,6693665	430,7361136	163,0625953	0,122657486	FALSE	32,4%	406,6443223	187,1543866	0,140779598	FALSE	30,6%
5748	3	1329,414131	Empty	590,4823529	398,6040783	170,484802	0,128240552	FALSE	430,9595379	0,104359796	430,9595379	465,3805572	163,0625953	0,122657486	FALSE	35,0%	453,5648211	187,1543866	0,140779598	FALSE	34,1%
5749	1	907,3901956	Non-Empty	804,0058192	289,0410851	0	0	TRUE	286,7459448	0	298,3345476	292,278228	0	0	TRUE	32,2%	266,8794693	0	0	TRUE	29,4%
5749	2	907,3901956	Non-Empty	794,2787532	306,7394741	0	0	TRUE	331,8697888	0	294,7252207	288,742172	0	0	TRUE	31,8%	266,8794693	0	0	TRUE	29,4%
5749	3	907,3901956	Non-Empty	847,1144046	311,6096364	0	0	TRUE	288,774462	0	314,3304273	326,3697956	0	0	TRUE	36,0%	373,631257	0	0	TRUE	41,2%
5750	1	1093,255433	Empty	556,7987631	345,2999396	102,8806981	0,094104905	FALSE	355,2713984	0,041681891	355,2713984	333,2810792	114,8995585	0,105098548	FALSE	30,5%	333,3095832	149,5707727	0,136812284	FALSE	30,5%
5750	2	1093,255433	Empty	617,3240989	392,9124666	102,8806981	0,094104905	FALSE	389,9711166	0,041681891	389,9711166	369,5095168	114,8995585	0,105098548	FALSE	33,8%	333,3095832	149,5707727	0,136812284	FALSE	30,5%
5750	3	1093,255433	Empty	583,5434179	355,0430266	102,8806981	0,094104905	FALSE	348,0129178	0,041681891	348,0129178	390,4648368	114,8995585	0,105098548	FALSE	35,7%	426,6362665	149,5707727	0,136812284	FALSE	39,0%
5751	1	906,1583712	Non-Empty	768,6561869	268,3918248	0	0	TRUE	261,3699334	0	291,9352817	295,2476165	0	0	TRUE	32,6%	334,4155894	0	0	TRUE	36,9%
5751	2	906,1583712	Non-Empty	775,2957212	291,336016	0	0	TRUE	300,6187815	0	294,4569739	297,7979201	0	0	TRUE	32,9%	345,203189	0	0	TRUE	38,1%
5751	3	906,1583712	Non-Empty	841,933875	346,4305303	0	0	TRUE	344,1696562	0	319,7661155	313,1128346	0	0	TRUE	34,6%	226,5395928	0	0	TRUE	25,0%
5752	1	1715,64512	Empty	848,927678	569,0727057	216,6402398	0,12627334	FALSE	591,6044343	0,072877787	591,6044343	536,8077131	248,9052324	0,145079673	FALSE	31,3%	553,4339097	232,2790357	0,135388743	FALSE	32,3%
5752	2	1715,64512	Empty	903,1745802	582,1873425	216,6402398	0,12627334	FALSE	563,5868057	0,072877787	563,5868057	571,1099938	248,9052324	0,145079673	FALSE	33,3%	571,8817067	232,2790357	0,135388743	FALSE	33,3%
5752	3	1715,64512	Empty	870,7029647	564,385072	216,6402398	0,12627334	FALSE	560,4538802	0,072877787	560,4538802	607,7274132	248,9052324	0,145079673	FALSE	35,4%	590,3295037	232,2790357	0,135388743	FALSE	34,4%
5753	1	816,4195677	Non-Empty	538,047661	251,7840428	0															

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5767	1	644,3258115	Non-Empty	628,0494077	228,1218964	0	0	TRUE	215,5793521	0	224,0092803	214,1400877	0	0	TRUE	33,2%	220,6595245	0	0	TRUE	34,2%
5767	2	644,3258115	Non-Empty	626,6693571	225,3270006	0	0	TRUE	211,3696111	0	223,5170513	213,6695449	0	0	TRUE	33,2%	194,1803815	0	0	TRUE	30,1%
5767	3	644,3258115	Non-Empty	551,7619475	190,8769144	0	0	TRUE	217,3768483	0	196,7994799	216,5161789	0	0	TRUE	33,6%	229,4859055	0	0	TRUE	35,6%
5768	1	1177,098242	Empty	569,8376011	371,6735657	150,4849331	0,127843988	FALSE	359,1187568	0,179751543	359,1187568	364,8184492	204,5888801	0,173807821	FALSE	31,0%	423,2263342	149,6790332	0,127159338	FALSE	36,0%
5768	2	1177,098242	Empty	571,987771	420,2989668	150,4849331	0,127843988	FALSE	454,2193891	0,179751543	454,2193891	366,1950197	204,5888801	0,173807821	FALSE	31,1%	423,2263342	149,6790332	0,127159338	FALSE	36,0%
5768	3	1177,098242	Empty	592,1005495	385,1257095	150,4849331	0,127843988	FALSE	363,760096	0,179751543	363,760096	446,0847731	204,5888801	0,173807821	FALSE	37,9%	330,6455736	149,6790332	0,127159338	FALSE	28,1%
5769	1	504,425413	Non-Empty	429,8311163	151,0520617	0	0	TRUE	169,1600383	0	155,4152645	153,9735574	0	0	TRUE	30,5%	234,1975132	0	0	TRUE	46,4%
5769	2	504,425413	Non-Empty	481,3060035	176,7128242	0	0	TRUE	169,0066761	0	174,0271865	172,4128263	0	0	TRUE	34,2%	120,1012888	0	0	TRUE	23,8%
5769	3	504,425413	Non-Empty	483,9493866	176,6605271	0	0	TRUE	166,2586986	0	174,9829621	178,0390293	0	0	TRUE	35,3%	150,126611	0	0	TRUE	29,8%
5770	1	1557,049734	Empty	751,5684411	504,5943899	242,4651294	0,155720864	FALSE	509,3924205	0,032740242	509,3924205	509,4022178	255,4955851	0,164089547	FALSE	32,7%	570,4043581	287,9698817	0,184945847	FALSE	36,6%
5770	2	1557,049734	Empty	769,9345957	511,0971784	242,4651294	0,155720864	FALSE	504,0318429	0,032740242	504,0318429	521,8505318	255,4955851	0,164089547	FALSE	33,5%	493,3226881	287,9698817	0,184945847	FALSE	31,7%
5770	3	1557,049734	Empty	790,8629431	541,3581661	242,4651294	0,155720864	FALSE	543,625471	0,032740242	543,625471	525,7969847	255,4955851	0,164089547	FALSE	33,8%	493,3226881	287,9698817	0,184945847	FALSE	31,7%
5771	1	916,7209457	Non-Empty	850,2591039	301,8163897	0	0	TRUE	286,6955839	0	309,712901	306,489337	0	0	TRUE	33,4%	284,9267804	0	0	TRUE	31,1%
5771	2	916,7209457	Non-Empty	831,9019495	296,7596335	0	0	TRUE	294,939226	0	303,0261775	299,8722105	0	0	TRUE	32,7%	309,7030222	0	0	TRUE	33,8%
5771	3	916,7209457	Non-Empty	834,5256177	318,1449225	0	0	TRUE	335,0861358	0	303,9818672	310,3593982	0	0	TRUE	33,9%	322,0911431	0	0	TRUE	35,1%
5772	1	645,9564451	Non-Empty	503,2060387	221,5688988	0	0	TRUE	239,5622661	0	210,4085262	195,8921988	0	0	TRUE	30,3%	233,4782332	0	0	TRUE	36,1%
5772	2	645,9564451	Non-Empty	538,3236893	223,9674123	0	0	TRUE	209,2416424	0	225,0924778	209,5630876	0	0	TRUE	32,4%	233,4782332	0	0	TRUE	36,1%
5772	3	645,9564451	Non-Empty	503,3182385	200,420134	0	0	TRUE	197,1525366	0	210,455441	240,5011587	0	0	TRUE	37,2%	178,9999788	0	0	TRUE	27,7%
5773	1	875,0634507	Non-Empty	574,0197869	270,0408949	0	0	TRUE	281,3493979	0	275,8507682	262,3166264	0	0	TRUE	30,0%	283,3538793	0	0	TRUE	32,4%
5773	2	875,0634507	Non-Empty	665,4619791	330,1249131	0	0	TRUE	310,0752423	0	319,7941993	304,1040489	0	0	TRUE	34,8%	308,3556921	0	0	TRUE	35,2%
5773	3	875,0634507	Non-Empty	581,44387	274,8976427	0	0	TRUE	283,6388105	0	279,4184832	308,6427754	0	0	TRUE	35,3%	283,3538793	0	0	TRUE	32,4%
5774	1	1077,086685	Empty	488,5231241	338,3823116	145,0423245	0,1346617	FALSE	339,5446038	0,014208714	339,5446038	330,0923989	161,7429742	0,150167091	FALSE	30,6%	266,4956747	216,9289613	0,201403438	FALSE	24,7%
5774	2	1077,086685	Empty	532,3125324	379,276516	145,0423245	0,1346617	FALSE	377,5436041	0,014208714	377,5436041	359,6806622	161,7429742	0,150167091	FALSE	33,4%	421,951485	216,9289613	0,201403438	FALSE	39,2%
5774	3	1077,086685	Empty	510,1603429	359,4278579	145,0423245	0,1346617	FALSE	359,9984775	0,014208714	359,9984775	387,3136243	161,7429742	0,150167091	FALSE	36,0%	388,6395257	216,9289613	0,201403438	FALSE	36,1%
5775	1	1419,541294	Empty	756,2238385	487,3490338	203,9009183	0,143638596	FALSE	470,5017169	0,082071964	470,5017169	494,0234987	208,7309982	0,14704116	FALSE	34,8%	488,9531123	219,1924939	0,154410791	FALSE	34,4%
5775	2	1419,541294	Empty	658,0177028	434,6977874	203,9009183	0,143638596	FALSE	463,4053598	0,082071964	463,4053598	429,8677074	208,7309982	0,14704116	FALSE	30,3%	488,9531123	219,1924939	0,154410791	FALSE	34,4%
5775	3	1419,541294	Empty	761,3822159	497,4944726	203,9009183	0,143638596	FALSE	485,6342171	0,082071964	485,6342171	495,6500876	208,7309982	0,14704116	FALSE	34,9%	441,6350692	219,1924939	0,154410791	FALSE	31,1%
5776	1	853,5500791	Empty	427,8442352	261,0312502	85,04551756	0,099637408	FALSE	242,8002816	0,272163008	242,8002816	255,9607648	54,34123603	0,063664965	FALSE	30,0%	301,760129	105,7182656	0,123857133	FALSE	35,4%
5776	2	853,5500791	Empty	498,8338183	324,0645686	85,04551756	0,099637408	FALSE	297,8773352	0,272163008	297,8773352	298,4307725	54,34123603	0,063664965	FALSE	35,0%	232,7863852	105,7182656	0,123857133	FALSE	27,3%
5776	3	853,5500791	Empty	372,6180746	268,4542603	85,04551756	0,099637408	FALSE	312,8724623	0,272163008	312,8724623	299,1585418	54,34123603	0,063664965	FALSE	35,0%	319,0035649	105,7182656	0,123857133	FALSE	37,4%
5777	1	612,238624	Non-Empty	554,7557485	209,80567	0	0	TRUE	199,4099715	0	210,1878368	202,2354337	0	0	TRUE	33,0%	225,5615983	0	0	TRUE	36,8%
5777	2	612,238624	Non-Empty	550,9984281	209,1275911	0	0	TRUE	201,811134	0	208,7642498	200,8657077	0	0	TRUE	32,8%	225,5615983	0	0	TRUE	36,8%
5777	3	612,238624	Non-Empty	510,1475871	193,3053629	0	0	TRUE	211,0175185	0	193,2865375	209,1374826	0	0	TRUE	34,2%	161,1154274	0	0	TRUE	26,3%
5778	1	1004,828405	Empty	469,8118467	299,932577	115,9443566	0,11538722	FALSE	308,3020053	0,086972463	308,3020053	289,7920646	150,171395	0,149449791	FALSE	28,8%	349,5055323	182,8500487	0,181971417	FALSE	34,8%
5778	2	1004,828405	Empty	566,4776776	390,1217443	115,9443566	0,11538722	FALSE	392,0145091	0,086972463	392,0145091	349,4180423	150,171395	0,149449791	FALSE	34,8%	316,7393887	182,8500487	0,181971417	FALSE	31,5%
5778	3	1004,828405	Empty	503,284975	314,7740841	115,9443566	0,11538722	FALSE	304,5118911	0,086972463	304,5118911	365,6182985	150,171395	0,149449791	FALSE	36,4%	338,5834844	182,8500487	0,181971417	FALSE	33,7%
5779	1	511,8298557	Non-Empty	494,7360026	180,5190666	0	0	TRUE	179,5790803	0	174,4351528	169,4046448	0	0	TRUE	33,1%	183,1812115	0	0	TRUE	35,8%
5779	2	511,8298557	Non-Empty	489,1495622	174,5724934	0	0	TRUE	173,2723743	0	172,4654728	167,4917681	0	0	TRUE	32,7%	167,0181634	0	0	TRUE	32,6%
5779	3	511,8298557	Non-Empty	467,7751402	156,7382958	0	0	TRUE	158,9784011	0	164,9292302	174,9334428	0	0	TRUE	34,2%	161,6304808	0	0	TRUE	31,6%
5780	1	721,3283415	Non-Empty	607,6049819	213,4383779	0	0	TRUE	224,6036714	0	226,2309692	228,5608207	0	0	TRUE	31,7%	184,339465	0	0	TRUE	25,6%
5780	2	721,3283415	Non-Empty	637,453751	235,1581748	0	0	TRUE	238,1944962	0	237,3446305	239,7889365	0	0	TRUE	33,2%	272,5018179	0	0	TRUE	37,8%
5780	3	721,3283415	Non-Empty	692,2653013	272,7317888	0	0	TRUE	258,5301738	0	257,7527418	252,9785843	0	0	TRUE	35,1%	264,4870585	0	0	TRUE	36,7%
5781	1	994,0526636	Empty	546,3484336	341,2437301	81,65159523	0,08214011	FALSE	341,5590056	0,107740102	341,5590056	335,8296399	83,08230258	0,083579377	FALSE	33,8%	306,6758217	90,37308795	0,090913783	FALSE	30,9%
5781	2	994,0526636	Empty	468,9327148	289,674427	81,65159523	0,08214011	FALSE	315,8361182	0,107740102	315,8361182	288,2437197	83,08230258	0,083579377	FALSE	29,0%	359,5509634	90,37308795	0,090913783	FALSE	36,2%
5781	3	994,0526636	Empty	595,031452	363,1345064	81,65159523	0,08214011	FALSE	336,6575397	0,107740102	336,6575397	369,979304	83,08230258	0,083579377	FALSE	37,2%	327,8258784	90,37308795	0,090913783	FALSE	33,0%
5782	1	643,4083305	Non-Empty	471,1603436	201,1730645	0	0	TRUE	216,4915102	0	202,1899108	186,042852	0	0	TRUE	28,9%	284,1023797	0	0	TRUE	44,2%
5782	2	643,4083305	Non-Empty	542,591829	242,7494381	0	0	TRUE	228,2127719	0	232,8434364	214,2483609	0	0	TRUE	33,3%	175,4749992	0	0	TRUE	27,3%
5782	3	643,4083305	Non-Empty	485,5733323	199,4858279	0	0	TRUE	198,7040484	0	208,3749833	243,1171177	0	0	TRUE	37,8%	183,8309516	0	0	TRUE	28,6%
5783	1	837,5704143	Non-Empty	642,9908946	252,4684435	0	0	TRUE	248,6428531	0	269,5903614	259,8844144	0	0	TRUE	31,0%	271,9384462	0	0	TRUE	32,5%
5783	2	837,5704143	Non-Empty	657,6780619	288,6862315	0	0	TRUE	306,3912618</												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5798	1	646,17138	Non-Empty	555,8943136	302,6080986	0	0	TRUE	314,3219253	0	249,2437538	221,2103214	0	0	TRUE	34,2%	219,6982692	0	0	TRUE	34,0%
5798	2	646,17138	Non-Empty	442,2947892	171,7860547	0	0	TRUE	166,2773617	0	198,3096622	176,0049888	0	0	TRUE	27,2%	232,6216968	0	0	TRUE	36,0%
5798	3	646,17138	Non-Empty	442,982402	171,7772267	0	0	TRUE	165,5720929	0	198,617964	248,9560698	0	0	TRUE	38,5%	193,851414	0	0	TRUE	30,0%
5799	1	838,9002598	Non-Empty	616,7504496	209,0870938	0	0	TRUE	240,9808819	0	239,8029759	246,0823847	0	0	TRUE	29,3%	221,2484202	0	0	TRUE	26,4%
5799	2	838,9002598	Non-Empty	733,6179003	282,4523993	0	0	TRUE	270,8440422	0	285,2430117	292,7122995	0	0	TRUE	34,9%	331,8726302	0	0	TRUE	39,6%
5799	3	838,9002598	Non-Empty	807,2033414	347,3607666	0	0	TRUE	327,0753357	0	313,8542722	300,1055756	0	0	TRUE	35,8%	285,7792094	0	0	TRUE	34,1%
5800	1	1026,968329	Empty	549,5742555	350,57865	92,12094333	0,089701835	FALSE	358,1028189	0,042554802	358,1028189	327,8847844	114,814809	0,111799756	FALSE	31,9%	299,5324294	143,167164	0,139407575	FALSE	29,2%
5800	2	1026,968329	Empty	558,245134	345,8610578	92,12094333	0,089701835	FALSE	339,9967558	0,042554802	339,9967558	333,057969	114,814809	0,111799756	FALSE	32,4%	406,508297	143,167164	0,139407575	FALSE	39,6%
5800	3	1026,968329	Empty	538,7082626	330,5286214	92,12094333	0,089701835	FALSE	328,8687545	0,042554802	328,8687545	366,0255759	114,814809	0,111799756	FALSE	35,6%	320,9276029	143,167164	0,139407575	FALSE	31,3%
5801	1	640,0880989	Non-Empty	441,9000371	168,2700849	0	0	TRUE	207,9998499	0	179,0031748	173,898242	0	0	TRUE	27,2%	213,3626996	0	0	TRUE	33,3%
5801	2	640,0880989	Non-Empty	574,428985	242,8083877	0	0	TRUE	224,5475077	0	232,6874935	226,0515553	0	0	TRUE	35,3%	213,3626996	0	0	TRUE	33,3%
5801	3	640,0880989	Non-Empty	563,8382288	229,0096264	0	0	TRUE	207,5407413	0	228,3974306	240,1383017	0	0	TRUE	37,5%	213,3626996	0	0	TRUE	33,3%
5802	1	1002,057221	Empty	453,7449251	309,5410863	147,3424274	0,147039934	FALSE	327,2947828	0,070268719	327,2947828	306,5103038	150,3732099	0,150064494	FALSE	30,6%	353,6672546	180,6869996	0,18031605	FALSE	35,3%
5802	2	1002,057221	Empty	503,0108089	334,9973657	147,3424274	0,147039934	FALSE	328,9414577	0,070268719	328,9414577	339,7900171	150,3732099	0,150064494	FALSE	33,9%	353,6672546	180,6869996	0,18031605	FALSE	35,3%
5802	3	1002,057221	Empty	531,1740932	357,5187694	147,3424274	0,147039934	FALSE	345,8209809	0,070268719	345,8209809	355,7569006	150,3732099	0,150064494	FALSE	35,5%	294,7227122	180,6869996	0,18031605	FALSE	29,4%
5803	1	1122,765195	Empty	596,1302536	390,3734916	111,9727029	0,099729403	FALSE	386,1200314	0,06003792	386,1200314	354,3911015	159,3113082	0,141891919	FALSE	31,6%	355,1604188	151,8570816	0,135252751	FALSE	31,6%
5803	2	1122,765195	Empty	604,1571512	406,5015852	111,9727029	0,099729403	FALSE	410,349321	0,06003792	410,349321	359,1629799	159,3113082	0,141891919	FALSE	32,0%	366,6172065	151,8570816	0,135252751	FALSE	32,7%
5803	3	1122,765195	Empty	526,9876954	325,8901181	111,9727029	0,099729403	FALSE	326,2958426	0,06003792	326,2958426	409,2111136	159,3113082	0,141891919	FALSE	36,4%	400,9875697	151,8570816	0,135252751	FALSE	35,7%
5804	1	1323,799165	Empty	698,8856286	464,4087528	165,7270223	0,125190457	FALSE	449,9840253	0,044451824	449,9840253	431,6866535	203,3095867	0,153580386	FALSE	32,6%	423,6157329	213,4950418	0,161274495	FALSE	32,0%
5804	2	1323,799165	Empty	680,8771395	464,7401568	165,7270223	0,125190457	FALSE	468,6553225	0,044451824	468,6553225	420,5631963	203,3095867	0,153580386	FALSE	31,8%	410,3777412	213,4950418	0,161274495	FALSE	31,0%
5804	3	1323,799165	Empty	604,1928422	394,6502557	165,7270223	0,125190457	FALSE	405,1598175	0,044451824	405,1598175	471,5493154	203,3095867	0,153580386	FALSE	35,6%	489,8056911	213,4950418	0,161274495	FALSE	37,0%
5805	1	1456,551684	Empty	732,8256743	469,1348905	181,2546797	0,124440953	FALSE	465,0210453	0,085280969	465,0210453	470,4629504	203,0254396	0,139387735	FALSE	32,3%	595,1501506	243,133721	0,166924197	FALSE	40,9%
5805	2	1456,551684	Empty	721,1667923	484,7488851	181,2546797	0,124440953	FALSE	507,9079165	0,085280969	507,9079165	462,9781252	203,0254396	0,139387735	FALSE	31,8%	422,8698439	243,133721	0,166924197	FALSE	29,0%
5805	3	1456,551684	Empty	781,2900335	502,6679088	181,2546797	0,124440953	FALSE	483,6227227	0,085280969	483,6227227	523,1106089	203,0254396	0,139387735	FALSE	35,9%	438,5316899	243,133721	0,166924197	FALSE	30,1%
5806	1	1636,973444	Empty	850,4219053	552,3286532	197,9473209	0,120922744	FALSE	553,772647	0,011878617	553,772647	540,9982393	209,2777348	0,127844307	FALSE	33,0%	517,8181302	232,4578438	0,142004652	FALSE	31,6%
5806	2	1636,973444	Empty	833,0093179	533,005548	197,9473209	0,120922744	FALSE	532,539024	0,011878617	532,539024	529,9211738	209,2777348	0,127844307	FALSE	32,4%	584,6333728	232,4578438	0,142004652	FALSE	35,7%
5806	3	1636,973444	Empty	852,1539585	551,6392427	197,9473209	0,120922744	FALSE	550,6617729	0,011878617	550,6617729	566,0540308	209,2777348	0,127844307	FALSE	34,6%	534,5219409	232,4578438	0,142004652	FALSE	32,7%
5807	1	612,1543988	Non-Empty	478,1347264	163,0962901	0	0	TRUE	185,1070374	0	180,306736	174,8604661	0	0	TRUE	28,6%	189,9789514	0	0	TRUE	31,0%
5807	2	612,1543988	Non-Empty	590,5461727	245,5326959	0	0	TRUE	237,5684028	0	222,6975933	215,9708828	0	0	TRUE	35,3%	161,8339215	0	0	TRUE	26,4%
5807	3	612,1543988	Non-Empty	554,6210504	203,5254128	0	0	TRUE	189,4789587	0	209,1500696	221,3230499	0	0	TRUE	36,2%	260,3415259	0	0	TRUE	42,5%
5808	1	1288,228163	Empty	640,0629149	425,2145443	176,8350892	0,137270007	FALSE	410,3122493	0,083871383	410,3122493	430,6817689	189,249264	0,146906635	FALSE	33,4%	411,1366478	176,9935621	0,137393023	FALSE	31,9%
5808	2	1288,228163	Empty	592,8017376	411,2951207	176,8350892	0,137270007	FALSE	429,7345794	0,083871383	429,7345794	398,880946	189,249264	0,146906635	FALSE	31,0%	411,1366478	176,9935621	0,137393023	FALSE	31,9%
5808	3	1288,228163	Empty	655,2017374	451,7184982	176,8350892	0,137270007	FALSE	448,1813345	0,083871383	448,1813345	458,6654483	189,249264	0,146906635	FALSE	35,6%	465,9548675	176,9935621	0,137393023	FALSE	36,2%
5809	1	736,4524515	Non-Empty	679,2920236	287,4554537	0	0	TRUE	273,9662627	0	267,3084278	243,0768583	0	0	TRUE	33,0%	240,4742699	0	0	TRUE	32,7%
5809	2	736,4524515	Non-Empty	654,5338572	256,8297799	0	0	TRUE	237,4730815	0	257,5658336	234,2174324	0	0	TRUE	31,8%	255,5039118	0	0	TRUE	34,7%
5809	3	736,4524515	Non-Empty	537,6687076	192,1672179	0	0	TRUE	225,0131073	0	211,5781901	259,1581608	0	0	TRUE	35,2%	240,4742699	0	0	TRUE	32,7%
5810	1	923,0030446	Empty	494,3988428	332,492076	96,26912235	0,104299897	FALSE	323,2660831	0,03076651	323,2660831	304,0589223	111,8184023	0,121146298	FALSE	32,9%	351,6202075	120,9185602	0,131005592	FALSE	38,1%
5810	2	923,0030446	Empty	461,4635009	308,714724	96,26912235	0,104299897	FALSE	308,6467209	0,03076651	308,6467209	283,803445	111,8184023	0,121146298	FALSE	30,7%	274,7032871	120,9185602	0,131005592	FALSE	29,8%
5810	3	923,0030446	Empty	425,1830224	281,7962446	96,26912235	0,104299897	FALSE	291,0902406	0,03076651	291,0902406	335,1406773	111,8184023	0,121146298	FALSE	36,3%	296,67955	120,9185602	0,131005592	FALSE	32,1%
5811	1	1138,219439	Empty	595,7310545	373,8908214	119,6483336	0,105118863	FALSE	373,8784498	0,06716995	373,8784498	358,512928	152,141403	0,133666144	FALSE	31,5%	421,5627551	146,52367	0,128730599	FALSE	37,0%
5811	2	1138,219439	Empty	621,1144613	406,281816	119,6483336	0,105118863	FALSE	413,2770322	0,06716995	413,2770322	373,7887466	152,141403	0,133666144	FALSE	32,8%	379,4064796	146,52367	0,128730599	FALSE	33,3%
5811	3	1138,219439	Empty	586,8575078	358,0468015	119,6483336	0,105118863	FALSE	351,0639569	0,06716995	351,0639569	405,9177642	152,141403	0,133666144	FALSE	35,7%	337,2502041	146,52367	0,128730599	FALSE	29,6%
5812	1	830,6002323	Non-Empty	715,0302693	240,5252265	0	0	TRUE	247,3771842	0	261,09457	271,0716329	0	0	TRUE	32,6%	276,8667441	0	0	TRUE	33,3%
5812	2	830,6002323	Non-Empty	733,5261534	250,4702499	0	0	TRUE	248,7713469	0	267,8483749	278,0835172	0	0	TRUE	33,5%	237,3143521	0	0	TRUE	28,6%
5812	3	830,6002323	Non-Empty	826,1148112	339,6047559	0	0	TRUE	334,4517012	0	301,6572874	281,4450822	0	0	TRUE	33,9%	316,4191361	0	0	TRUE	38,1%
5813	1	865,0484702	Non-Empty	698,6401973	271,8249145	0	0	TRUE	256,6772129	0	287,7823312	271,2401274	0	0	TRUE	31,4%	304,1928686	0	0	TRUE	35,2%
5813	2	865,0484702	Non-Empty	683,6186099	314,0237129	0	0	TRUE	356,0963971	0	281,5946719	265,408145	0	0	TRUE	30,7%	285,1808143	0	0	TRUE	33,0%
5813	3	865,0484702	Non-Empty	717,7924068	279,1998428	0	0	TRUE	252,2748601	0	295,6714671	328,4001978									

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5829	1	1162,036437	Empty	614,6981786	382,9784843	118,0460337	0,101585484	FALSE	375,6240026	0,117318786	375,6240026	363,0802266	170,4353089	0,146669505	FALSE	31,2%	407,3117409	161,350478	0,138851479	FALSE	35,1%
5829	2	1162,036437	Empty	633,6381596	426,656671	118,0460337	0,101585484	FALSE	444,040395	0,117318786	444,040395	374,2673959	170,4353089	0,146669505	FALSE	32,2%	383,3522268	161,350478	0,138851479	FALSE	33,0%
5829	3	1162,036437	Empty	586,7957369	352,401282	118,0460337	0,101585484	FALSE	342,3720398	0,117318786	342,3720398	424,6888149	170,4353089	0,146669505	FALSE	36,5%	371,3724697	161,350478	0,138851479	FALSE	32,0%
5830	1	1650,803179	Empty	789,490008	582,4082168	261,769864	0,158571214	FALSE	581,6331975	0,027948693	581,6331975	527,7920112	313,9565754	0,190184135	FALSE	32,0%	550,2677263	291,4808603	0,176569117	FALSE	33,3%
5830	2	1650,803179	Empty	783,193903	576,0076755	261,769864	0,158571214	FALSE	575,1282199	0,027948693	575,1282199	523,582922	313,9565754	0,190184135	FALSE	31,7%	564,3771552	291,4808603	0,176569117	FALSE	34,2%
5830	3	1650,803179	Empty	697,0395839	492,3872868	261,769864	0,158571214	FALSE	494,0417617	0,027948693	494,0417617	599,4282458	313,9565754	0,190184135	FALSE	36,3%	536,1582975	291,4808603	0,176569117	FALSE	32,5%
5831	1	1601,264778	Empty	781,3982779	498,3904604	191,0813975	0,119331543	FALSE	506,2084955	0,005648407	506,2084955	512,8291942	194,9711133	0,121760696	FALSE	32,0%	577,2000944	249,4831426	0,155803803	FALSE	36,0%
5831	2	1601,264778	Empty	809,391249	522,339618	191,0813975	0,119331543	FALSE	526,1138396	0,005648407	526,1138396	531,2008918	194,9711133	0,121760696	FALSE	33,2%	521,3420208	249,4831426	0,155803803	FALSE	32,6%
5831	3	1601,264778	Empty	882,9528089	580,5346997	191,0813975	0,119331543	FALSE	568,942443	0,005648407	568,942443	557,2346921	194,9711133	0,121760696	FALSE	34,8%	502,7226629	249,4831426	0,155803803	FALSE	31,4%
5832	1	629,2452748	Non-Empty	505,7800066	182,7215274	0	0	TRUE	178,8946933	0	200,5492565	213,1029941	0	0	TRUE	33,9%	240,0213935	0	0	TRUE	38,1%
5832	2	629,2452748	Non-Empty	458,2116528	158,0583023	0	0	TRUE	177,136597	0	181,6877004	193,0607653	0	0	TRUE	30,7%	194,6119407	0	0	TRUE	30,9%
5832	3	629,2452748	Non-Empty	622,9485509	288,4654451	0	0	TRUE	273,2139845	0	247,008318	223,0815155	0	0	TRUE	35,5%	194,6119407	0	0	TRUE	30,9%
5833	1	1613,83608	Empty	791,2962832	511,1922068	209,7400099	0,129963639	FALSE	519,2264065	0,009539058	519,2264065	513,9674019	206,9648148	0,128244013	FALSE	31,8%	533,0100814	223,7862956	0,138667302	FALSE	33,0%
5833	2	1613,83608	Empty	835,5355216	543,8409883	209,7400099	0,129963639	FALSE	540,2847312	0,009539058	540,2847312	542,7019315	206,9648148	0,128244013	FALSE	33,6%	518,2042458	223,7862956	0,138667302	FALSE	32,1%
5833	3	1613,83608	Empty	851,4191032	558,8028846	209,7400099	0,129963639	FALSE	554,3249421	0,009539058	554,3249421	557,1667464	206,9648148	0,128244013	FALSE	34,5%	562,6217526	223,7862956	0,138667302	FALSE	34,9%
5834	1	720,199045	Non-Empty	691,7335603	265,9076973	0	0	TRUE	253,1890919	0	254,2386103	239,7554625	0	0	TRUE	33,3%	258,3322662	0	0	TRUE	35,9%
5834	2	720,199045	Non-Empty	673,9631216	251,093501	0	0	TRUE	241,3311381	0	247,7072926	233,5962127	0	0	TRUE	32,4%	266,1605166	0	0	TRUE	37,0%
5834	3	720,199045	Non-Empty	593,8241359	203,1978467	0	0	TRUE	225,6788151	0	218,2531421	246,8473698	0	0	TRUE	34,3%	195,7062622	0	0	TRUE	27,2%
5835	1	736,5047052	Non-Empty	646,9530945	230,9785534	0	0	TRUE	235,7675116	0	238,3856022	241,9767821	0	0	TRUE	32,9%	278,068103	0	0	TRUE	37,8%
5835	2	736,5047052	Non-Empty	618,4636329	215,865125	0	0	TRUE	234,0301166	0	227,8879671	231,3210046	0	0	TRUE	31,4%	255,5220406	0	0	TRUE	34,7%
5835	3	736,5047052	Non-Empty	733,378476	289,6610268	0	0	TRUE	266,707077	0	270,2311359	263,2069184	0	0	TRUE	35,7%	202,9145616	0	0	TRUE	27,6%
5836	1	1120,280582	Empty	552,8402195	372,5689474	145,3029489	0,129702283	FALSE	365,9238002	0,09683868	365,9238002	338,2699054	144,6336676	0,12910486	FALSE	30,2%	414,016737	218,6192251	0,195146848	FALSE	37,0%
5836	2	1120,280582	Empty	623,0457062	427,7415525	145,3029489	0,129702283	FALSE	406,0635236	0,09683868	406,0635236	381,2269887	144,6336676	0,12910486	FALSE	34,0%	304,4240713	218,6192251	0,195146848	FALSE	27,2%
5836	3	1120,280582	Empty	465,2730315	319,9700826	145,3029489	0,129702283	FALSE	348,2932587	0,09683868	348,2932587	400,7836884	144,6336676	0,12910486	FALSE	35,8%	401,8397741	218,6192251	0,195146848	FALSE	35,9%
5837	1	554,9666878	Non-Empty	464,8817299	171,3284131	0	0	TRUE	172,6944893	0	179,1966506	167,3760738	0	0	TRUE	30,2%	160,9403395	0	0	TRUE	29,0%
5837	2	554,9666878	Non-Empty	525,2788177	230,1467974	0	0	TRUE	229,9341701	0	202,4777458	189,1214485	0	0	TRUE	34,1%	216,4370082	0	0	TRUE	39,0%
5837	3	554,9666878	Non-Empty	449,5643191	153,4914773	0	0	TRUE	152,3380284	0	173,2922914	198,4691655	0	0	TRUE	35,8%	177,5893401	0	0	TRUE	32,0%
5838	1	915,5429716	Empty	467,1380678	291,0759561	88,85062787	0,097046923	FALSE	279,5742521	0,10401154	279,5742521	289,2649801	116,8324348	0,127609996	FALSE	31,6%	308,6099904	205,3667617	0,224311439	FALSE	33,7%
5838	2	915,5429716	Empty	475,227722	322,2561275	88,85062787	0,097046923	FALSE	333,8449407	0,10401154	333,8449407	294,2743206	116,8324348	0,127609996	FALSE	32,1%	205,7399936	205,3667617	0,224311439	FALSE	22,5%
5838	3	915,5429716	Empty	466,858405	302,210888	88,85062787	0,097046923	FALSE	302,1237787	0,10401154	302,1237787	332,0036709	116,8324348	0,127609996	FALSE	36,3%	401,1929875	205,3667617	0,224311439	FALSE	43,8%
5839	1	937,1650162	Non-Empty	843,175784	356,6306796	0	0	TRUE	364,4275327	0	326,510421	314,4624502	0	0	TRUE	33,6%	316,293193	0	0	TRUE	33,8%
5839	2	937,1650162	Non-Empty	774,351486	278,9545682	0	0	TRUE	277,8996078	0	299,8503657	288,7944249	0	0	TRUE	30,8%	316,293193	0	0	TRUE	33,8%
5839	3	937,1650162	Non-Empty	802,6636186	301,5797684	0	0	TRUE	294,8378757	0	310,8136084	333,9081411	0	0	TRUE	35,6%	304,5786303	0	0	TRUE	32,5%
5840	1	786,691384	Non-Empty	654,4632063	289,6746783	0	0	TRUE	299,6632106	0	269,416267	260,0550331	0	0	TRUE	33,1%	291,0758121	0	0	TRUE	37,0%
5840	2	786,691384	Non-Empty	603,0482032	222,0266594	0	0	TRUE	215,7821758	0	248,2507713	239,6249613	0	0	TRUE	30,5%	212,4066737	0	0	TRUE	27,0%
5840	3	786,691384	Non-Empty	653,5111553	274,9900463	0	0	TRUE	271,2459976	0	269,0243458	287,0113896	0	0	TRUE	36,5%	283,2088983	0	0	TRUE	36,0%
5841	1	1135,070184	Empty	606,1844941	378,9611674	96,81305072	0,085292568	FALSE	369,1931798	0,064644777	369,1931798	374,7478548	110,9382375	0,097736897	FALSE	33,0%	386,6722606	109,0588924	0,096081189	FALSE	34,1%
5841	2	1135,070184	Empty	561,903518	361,4982061	96,81305072	0,085292568	FALSE	378,5482334	0,064644777	378,5482334	347,3730193	110,9382375	0,097736897	FALSE	30,6%	349,2523644	109,0588924	0,096081189	FALSE	30,8%
5841	3	1135,070184	Empty	619,3481898	394,6108108	96,81305072	0,085292568	FALSE	387,328771	0,064644777	387,328771	412,9493102	110,9382375	0,097736897	FALSE	36,4%	399,1455593	109,0588924	0,096081189	FALSE	35,2%
5842	1	1481,635722	Empty	714,0599254	471,1072875	218,6470957	0,147571426	FALSE	488,3640608	0,047834425	488,3640608	459,9079893	229,8463939	0,155130165	FALSE	31,0%	382,8946247	306,8597585	0,207108774	FALSE	25,8%
5842	2	1481,635722	Empty	789,0167086	519,5831964	218,6470957	0,147571426	FALSE	510,3590954	0,047834425	510,3590954	508,185763	229,8463939	0,155130165	FALSE	34,3%	532,7229561	306,8597585	0,207108774	FALSE	36,0%
5842	3	1481,635722	Empty	759,1873212	490,9452378	218,6470957	0,147571426	FALSE	482,9125656	0,047834425	482,9125656	513,5419694	229,8463939	0,155130165	FALSE	34,7%	566,0181409	306,8597585	0,207108774	FALSE	38,2%
5843	1	690,4298378	Non-Empty	485,2568437	172,9287948	0	0	TRUE	186,5527714	0	200,8263698	194,2320828	0	0	TRUE	28,1%	197,265668	0	0	TRUE	28,6%
5843	2	690,4298378	Non-Empty	596,5958926	270,5126054	0	0	TRUE	270,3813436	0	246,9046834	238,7973797	0	0	TRUE	34,6%	215,1989105	0	0	TRUE	31,2%
5843	3	690,4298378	Non-Empty	586,4331778	246,9884376	0	0	TRUE	233,4957228	0	242,6987847	257,4003753	0	0	TRUE	37,3%	277,9652594	0	0	TRUE	40,3%
5844	1	1413,043395	Empty	681,8137224	400,9627103	188,3138949	0,133268303	FALSE	454,816598	0,032501191	454,816598	434,782683	194,4939222	0,137641861	FALSE	30,8%	441,576061	225,3091339	0,15944955	FALSE	31,3%
5844	2	1413,043395	Empty	761,2985879	499,5094379	188,3138949	0,133268303	FALSE	492,4251877	0,032501191	492,4251877	485,4690243	194,4939222	0,137641861	FALSE	34,4%	441,576061	225,3091339	0,15944955	FALSE	31,3%
5844	3	1413,043395	Empty	734,0457842	472,5712469	188,3138949	0,133268303	FALSE	465,8016094	0,032501191	465,8016094	492,7916878	194,4939222	0,137641861	FALSE						

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5860	1	1345,869937	Empty	712,5025312	456,0852415	156,8400648	0,11653434	FALSE	445,5847713	0,119108206	445,5847713	438,8102171	197,3322413	0,146620588	FALSE	32,6%	448,6233125	148,9412822	0,110665435	FALSE	33,3%
5860	2	1345,869937	Empty	673,3610349	455,1962496	156,8400648	0,11653434	FALSE	482,948284	0,119108206	482,948284	414,7040732	197,3322413	0,146620588	FALSE	30,8%	463,0950323	148,9412822	0,110665435	FALSE	34,4%
5860	3	1345,869937	Empty	697,7568301	434,5884646	156,8400648	0,11653434	FALSE	417,3368822	0,119108206	417,3368822	492,3556472	197,3322413	0,146620588	FALSE	36,6%	434,1515927	148,9412822	0,110665435	FALSE	32,3%
5861	1	666,6777915	Non-Empty	505,8310436	203,3786563	0	0	TRUE	209,2756716	0	211,8620435	209,3038161	0	0	TRUE	31,4%	258,0688225	0	0	TRUE	38,7%
5861	2	666,6777915	Non-Empty	519,8408066	217,1105788	0	0	TRUE	222,7297537	0	217,7298863	215,1008048	0	0	TRUE	32,3%	179,2144601	0	0	TRUE	26,9%
5861	3	666,6777915	Non-Empty	566,0541493	246,1885564	0	0	TRUE	234,6723661	0	237,0858617	242,2731705	0	0	TRUE	36,3%	229,3945089	0	0	TRUE	34,4%
5862	1	1548,424403	Empty	822,4530666	531,1420254	197,4305748	0,127504174	FALSE	506,8993359	0,07318273	506,8993359	528,5501839	207,6891185	0,134129324	FALSE	34,1%	544,5008889	307,9338999	0,198869186	FALSE	35,2%
5862	2	1548,424403	Empty	754,8653681	498,4033855	197,4305748	0,127504174	FALSE	509,0097545	0,07318273	509,0097545	485,1148902	207,6891185	0,134129324	FALSE	31,3%	595,5478472	307,9338999	0,198869186	FALSE	38,5%
5862	3	1548,424403	Empty	772,3110229	518,8789918	197,4305748	0,127504174	FALSE	532,5153123	0,07318273	532,5153123	534,7593285	207,6891185	0,134129324	FALSE	34,5%	408,3756666	307,9338999	0,198869186	FALSE	26,4%
5863	1	927,3677661	Non-Empty	809,6783835	297,0951191	0	0	TRUE	292,9748554	0	306,1329372	305,8099099	0	0	TRUE	33,0%	261,5652674	0	0	TRUE	28,2%
5863	2	927,3677661	Non-Empty	802,4646244	287,9167742	0	0	TRUE	281,8319247	0	303,4054724	303,0853232	0	0	TRUE	32,7%	309,1225887	0	0	TRUE	33,3%
5863	3	927,3677661	Non-Empty	840,6137605	342,3558728	0	0	TRUE	352,5609859	0	317,8293564	318,472533	0	0	TRUE	34,3%	356,67991	0	0	TRUE	38,5%
5864	1	677,9980439	Non-Empty	579,6687885	224,7562109	0	0	TRUE	242,0546755	0	218,9944715	218,3124833	0	0	TRUE	32,2%	197,7494295	0	0	TRUE	29,2%
5864	2	677,9980439	Non-Empty	582,1861365	204,2913455	0	0	TRUE	198,6075965	0	219,9455065	219,2605566	0	0	TRUE	32,3%	263,665906	0	0	TRUE	38,9%
5864	3	677,9980439	Non-Empty	632,7762454	248,9504875	0	0	TRUE	237,3357718	0	239,0580659	240,425004	0	0	TRUE	35,5%	216,5827085	0	0	TRUE	31,9%
5865	1	757,0429517	Non-Empty	645,6108035	283,3729923	0	0	TRUE	289,6917577	0	262,3888875	240,0909232	0	0	TRUE	31,7%	193,8768535	0	0	TRUE	25,6%
5865	2	757,0429517	Non-Empty	647,7161601	274,1660154	0	0	TRUE	269,1724474	0	263,2445457	240,873867	0	0	TRUE	31,8%	286,1991647	0	0	TRUE	37,8%
5865	3	757,0429517	Non-Empty	569,3857181	199,503944	0	0	TRUE	198,1787467	0	231,4095184	276,0781615	0	0	TRUE	36,5%	276,9669336	0	0	TRUE	36,6%
5866	1	1092,930646	Empty	584,5591845	391,088634	134,4621276	0,123028966	FALSE	380,0919065	0,032602722	380,0919065	376,716307	140,5625598	0,128610686	FALSE	34,5%	380,6837081	129,199806	0,118214094	FALSE	34,8%
5866	2	1092,930646	Empty	515,9176339	338,8217924	134,4621276	0,123028966	FALSE	344,1997738	0,032602722	344,1997738	332,4805955	140,5625598	0,128610686	FALSE	30,4%	343,8433493	129,199806	0,118214094	FALSE	31,5%
5866	3	1092,930646	Empty	539,8752964	363,0202195	134,4621276	0,123028966	FALSE	368,6389656	0,032602722	368,6389656	383,7337434	140,5625598	0,128610686	FALSE	35,1%	368,4035885	129,199806	0,118214094	FALSE	33,7%
5867	1	1029,339284	Empty	531,5506083	343,4578434	122,0306777	0,118552434	FALSE	329,6852915	0,08995707	329,6852915	351,7015305	125,0054912	0,121442457	FALSE	34,2%	292,4259328	178,7036118	0,173610018	FALSE	28,4%
5867	2	1029,339284	Empty	465,9506035	311,2719687	122,0306777	0,118552434	FALSE	330,9135469	0,08995707	330,9135469	308,2971552	125,0054912	0,121442457	FALSE	30,0%	444,4874179	178,7036118	0,173610018	FALSE	43,2%
5867	3	1029,339284	Empty	554,7987108	374,6094715	122,0306777	0,118552434	FALSE	368,7404451	0,08995707	368,7404451	369,3405979	125,0054912	0,121442457	FALSE	35,9%	292,4259328	178,7036118	0,173610018	FALSE	28,4%
5868	1	819,9385907	Non-Empty	753,5781169	269,2027644	0	0	TRUE	265,3734528	0	273,2110635	268,6856232	0	0	TRUE	32,8%	264,2024348	0	0	TRUE	32,2%
5868	2	819,9385907	Non-Empty	747,4129575	275,2287027	0	0	TRUE	283,590489	0	270,978742	266,4874573	0	0	TRUE	32,5%	282,4232923	0	0	TRUE	34,4%
5868	3	819,9385907	Non-Empty	760,5856393	275,5071236	0	0	TRUE	270,9746489	0	275,751653	284,7655101	0	0	TRUE	34,7%	273,3128636	0	0	TRUE	33,3%
5869	1	1140,704391	Empty	535,8667636	378,8354841	156,4336919	0,137137801	FALSE	403,9981952	0,135125353	403,9981952	360,8523846	174,4167914	0,152902709	FALSE	31,6%	396,7667446	145,1782755	0,127270726	FALSE	34,8%
5869	2	1140,704391	Empty	546,9239997	351,5805631	156,4336919	0,137137801	FALSE	338,4311171	0,135125353	338,4311171	368,2983213	174,4167914	0,152902709	FALSE	32,3%	359,5698623	145,1782755	0,127270726	FALSE	31,5%
5869	3	1140,704391	Empty	604,4955993	410,2883436	156,4336919	0,137137801	FALSE	398,2750786	0,135125353	398,2750786	411,553685	174,4167914	0,152902709	FALSE	36,1%	384,3677839	145,1782755	0,127270726	FALSE	33,7%
5870	1	852,8130636	Non-Empty	672,3602877	278,2856624	0	0	TRUE	278,9631606	0	281,4816359	275,1982015	0	0	TRUE	32,3%	289,7908468	0	0	TRUE	34,0%
5870	2	852,8130636	Non-Empty	680,6503944	287,1032355	0	0	TRUE	288,3082002	0	284,9522644	278,5913562	0	0	TRUE	32,7%	231,8326775	0	0	TRUE	27,2%
5870	3	852,8130636	Non-Empty	684,058752	287,4241656	0	0	TRUE	285,5417028	0	286,3791632	299,0235058	0	0	TRUE	35,1%	331,1895392	0	0	TRUE	38,8%
5871	1	880,487378	Non-Empty	810,8709835	299,0096022	0	0	TRUE	279,137477	0	302,9812247	298,0703111	0	0	TRUE	33,9%	333,977971	0	0	TRUE	37,9%
5871	2	880,487378	Non-Empty	769,7796473	275,6818521	0	0	TRUE	273,573313	0	287,6274833	282,965433	0	0	TRUE	32,1%	232,7725252	0	0	TRUE	26,4%
5871	3	880,487378	Non-Empty	775,8045155	305,7959237	0	0	TRUE	327,776588	0	289,87867	299,4516338	0	0	TRUE	34,0%	313,7368818	0	0	TRUE	35,6%
5872	1	602,3098184	Non-Empty	453,859168	179,5817526	0	0	TRUE	163,1024239	0	198,7083104	196,6605741	0	0	TRUE	32,7%	162,9779509	0	0	TRUE	27,1%
5872	2	602,3098184	Non-Empty	440,3588467	184,9453015	0	0	TRUE	187,3298429	0	192,797609	190,8107839	0	0	TRUE	31,7%	240,9239273	0	0	TRUE	40,0%
5872	3	602,3098184	Non-Empty	481,4860636	237,7827642	0	0	TRUE	251,8775515	0	210,803899	214,8384604	0	0	TRUE	35,7%	198,4079402	0	0	TRUE	32,9%
5873	1	625,4902532	Non-Empty	533,5893362	212,9803025	0	0	TRUE	206,5439505	0	212,8527823	198,4004481	0	0	TRUE	31,7%	226,2411554	0	0	TRUE	36,2%
5873	2	625,4902532	Non-Empty	533,9764224	229,5704663	0	0	TRUE	239,337192	0	213,0071939	198,5443754	0	0	TRUE	31,7%	192,9703973	0	0	TRUE	30,9%
5873	3	625,4902532	Non-Empty	500,4425401	182,9394845	0	0	TRUE	179,6091107	0	199,6302771	228,5454298	0	0	TRUE	36,5%	206,2787005	0	0	TRUE	33,0%
5874	1	1381,389272	Empty	734,4434364	480,0963809	161,2919037	0,116760646	FALSE	481,7039559	0,076587304	481,7039559	458,5240175	178,5953417	0,129286759	FALSE	33,2%	396,7820249	228,5810553	0,165471862	FALSE	28,7%
5874	2	1381,389272	Empty	680,4244385	442,1025874	161,2919037	0,116760646	FALSE	459,7353669	0,076587304	459,7353669	424,7991495	178,5953417	0,129286759	FALSE	30,8%	514,3470693	228,5810553	0,165471862	FALSE	37,2%
5874	3	1381,389272	Empty	734,3852886	459,1903306	161,2919037	0,116760646	FALSE	439,9499491	0,076587304	439,9499491	498,066105	178,5953417	0,129286759	FALSE	36,1%	470,2601777	228,5810553	0,165471862	FALSE	34,0%
5875	1	737,8571521	Non-Empty	679,8381275	290,9481324	0	0	TRUE	271,5939773	0	271,6669494	261,9568081	0	0	TRUE	35,5%	280,7065253	0	0	TRUE	38,0%
5875	2	737,8571521	Non-Empty	552,5453821	195,8886809	0	0	TRUE	208,7678197	0	220,800088	212,9080715	0	0	TRUE	28,9%	208,5248473	0	0	TRUE	28,3%
5875	3	737,8571521	Non-Empty	614,0811625	251,0203388	0	0	TRUE	257,4953551	0	245,3901147	262,9922725	0	0	TRUE	35,6%	248,6257795	0	0	TRUE	33,7%
5876	1	1154,136134	Empty	562,3064154	389,8093935	124,8634333	0,108187786	FALSE	398,0424264	0,043055736	398,0424264	362,6184871	152,0543398	0,131747318	FALSE	31,4%	341,5300804	173,1427464	0,150019345	FALSE	29,6%
5876	2	1154,136134	Empty	566,9116646	382,6255396	124,8634333	0,108187786	FALSE	379,0694691	0,043055736	379,0694691	365,5883065	152,0543398	0,131747318	FALSE	31,7%	388,6376777				

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5891	1	1393,189941	Empty	723,2039787	463,8068365	157,339026	0,112934368	FALSE	471,2601996	0,049802659	471,2601996	442,9301963	174,6742134	0,125377171	FALSE	31,8%	329,5718139	288,0325958	0,206743235	FALSE	23,7%
5891	2	1393,189941	Empty	765,1941414	479,8954573	157,339026	0,112934368	FALSE	461,4472784	0,049802659	461,4472784	468,647299	174,6742134	0,125377171	FALSE	33,6%	599,2214798	288,0325958	0,206743235	FALSE	43,0%
5891	3	1393,189941	Empty	705,3433362	449,4876468	157,339026	0,112934368	FALSE	460,4824626	0,049802659	460,4824626	481,6124453	174,6742134	0,125377171	FALSE	34,6%	464,3966469	288,0325958	0,206743235	FALSE	33,3%
5892	1	623,5331377	Non-Empty	547,4195587	194,9291657	0	0	TRUE	187,0698585	0	205,9423188	207,3537312	0	0	TRUE	33,3%	165,8332813	0	0	TRUE	26,6%
5892	2	623,5331377	Non-Empty	537,6616323	193,2323586	0	0	TRUE	193,4341706	0	202,271332	203,6575855	0	0	TRUE	32,7%	212,2666001	0	0	TRUE	34,0%
5892	3	623,5331377	Non-Empty	572,3452039	235,3716134	0	0	TRUE	243,0291086	0	215,3194868	212,5218209	0	0	TRUE	34,1%	245,4332563	0	0	TRUE	39,4%
5893	1	659,2691774	Non-Empty	577,5649915	227,5951829	0	0	TRUE	220,8669136	0	225,4423893	208,9058987	0	0	TRUE	31,7%	194,3109154	0	0	TRUE	29,5%
5893	2	659,2691774	Non-Empty	586,9406609	251,272771	0	0	TRUE	258,8464205	0	229,1020179	212,2970888	0	0	TRUE	32,2%	222,0696177	0	0	TRUE	33,7%
5893	3	659,2691774	Non-Empty	524,4881431	180,4012235	0	0	TRUE	179,5558433	0	204,7247702	238,0661899	0	0	TRUE	36,1%	242,8886443	0	0	TRUE	36,8%
5894	1	923,2062085	Non-Empty	813,6445795	318,9561272	0	0	TRUE	341,1394353	0	303,6442728	289,8519233	0	0	TRUE	31,4%	382,7928182	0	0	TRUE	41,5%
5894	2	923,2062085	Non-Empty	858,1639215	316,764571	0	0	TRUE	292,2369808	0	320,2584599	305,7114487	0	0	TRUE	33,1%	270,2066952	0	0	TRUE	29,3%
5894	3	923,2062085	Non-Empty	802,0129885	287,4855103	0	0	TRUE	289,8297924	0	299,3034758	327,6428365	0	0	TRUE	35,5%	270,2066952	0	0	TRUE	29,3%
5895	1	928,581874	Empty	446,3705871	296,1559468	111,2369146	0,119792253	FALSE	313,3844413	0,096907638	313,3844413	280,4496133	126,9432481	0,136706576	FALSE	30,2%	287,1902703	125,1078693	0,134730036	FALSE	30,9%
5895	2	928,581874	Empty	493,9177027	322,3821437	111,2369146	0,119792253	FALSE	318,2897195	0,096907638	318,2897195	310,3229306	126,9432481	0,136706576	FALSE	33,4%	287,1902703	125,1078693	0,134730036	FALSE	30,9%
5895	3	928,581874	Empty	490,6229887	310,0437835	111,2369146	0,119792253	FALSE	296,9077132	0,096907638	296,9077132	337,8093301	126,9432481	0,136706576	FALSE	36,4%	354,2013334	125,1078693	0,134730036	FALSE	38,1%
5896	1	648,6701192	Non-Empty	516,7404263	181,2205022	0	0	TRUE	185,0778602	0	201,1001191	187,0509654	0	0	TRUE	28,8%	192,4625628	0	0	TRUE	29,7%
5896	2	648,6701192	Non-Empty	629,5796527	289,7150064	0	0	TRUE	289,2276422	0	245,0138149	227,8967851	0	0	TRUE	35,1%	199,5908059	0	0	TRUE	30,8%
5896	3	648,6701192	Non-Empty	520,4818867	177,7346106	0	0	TRUE	174,3646167	0	202,5561851	233,7223686	0	0	TRUE	36,0%	256,6167504	0	0	TRUE	39,6%
5897	1	700,4961434	Non-Empty	510,4971404	217,1848523	0	0	TRUE	243,2891737	0	215,5853181	207,0635386	0	0	TRUE	29,6%	186,2078356	0	0	TRUE	26,6%
5897	2	700,4961434	Non-Empty	585,6805288	238,371641	0	0	TRUE	210,4793629	0	247,3356129	237,5587896	0	0	TRUE	33,9%	230,5430345	0	0	TRUE	32,9%
5897	3	700,4961434	Non-Empty	562,5683031	244,9396501	0	0	TRUE	246,7276068	0	237,5752124	255,8738152	0	0	TRUE	36,5%	283,7452733	0	0	TRUE	40,5%
5898	1	673,161442	Non-Empty	611,6150911	215,3207361	0	0	TRUE	223,4608261	0	218,2472218	216,0180908	0	0	TRUE	32,1%	229,0136865	0	0	TRUE	34,0%
5898	2	673,161442	Non-Empty	640,4611262	228,8126342	0	0	TRUE	221,5985874	0	228,5405699	226,2063048	0	0	TRUE	33,6%	208,1942604	0	0	TRUE	30,9%
5898	3	673,161442	Non-Empty	634,3885601	229,0280717	0	0	TRUE	228,1020285	0	226,3736504	230,9370464	0	0	TRUE	34,3%	235,9534951	0	0	TRUE	35,1%
5899	1	678,6880199	Non-Empty	570,9935305	253,7778137	0	0	TRUE	262,5549763	0	233,9193988	221,9583111	0	0	TRUE	32,7%	167,6758637	0	0	TRUE	24,7%
5899	2	678,6880199	Non-Empty	546,888019	202,5096248	0	0	TRUE	184,12411	0	224,040736	212,5879446	0	0	TRUE	31,3%	279,4597729	0	0	TRUE	41,2%
5899	3	678,6880199	Non-Empty	538,7851085	222,4005814	0	0	TRUE	232,0089336	0	220,7245475	244,1417642	0	0	TRUE	36,0%	231,5523833	0	0	TRUE	34,1%
5900	1	758,6593217	Non-Empty	690,9025411	280,0325279	0	0	TRUE	271,1003704	0	266,8194895	250,2510716	0	0	TRUE	33,0%	226,8156735	0	0	TRUE	29,9%
5900	2	758,6593217	Non-Empty	649,287692	260,5002579	0	0	TRUE	273,6506795	0	250,7482607	235,1778015	0	0	TRUE	31,0%	250,2793639	0	0	TRUE	33,0%
5900	3	758,6593217	Non-Empty	624,2826554	181,1265358	0	0	TRUE	213,9082718	0	241,0915715	273,2304487	0	0	TRUE	36,0%	281,5642843	0	0	TRUE	37,1%
5901	1	809,4580464	Non-Empty	689,9845411	245,7217992	0	0	TRUE	263,9283569	0	254,2319617	251,7243704	0	0	TRUE	31,1%	301,3939534	0	0	TRUE	37,2%
5901	2	809,4580464	Non-Empty	756,9946835	276,6081339	0	0	TRUE	258,6908838	0	278,9225438	276,1714194	0	0	TRUE	34,1%	232,5039069	0	0	TRUE	28,7%
5901	3	809,4580464	Non-Empty	749,8867202	287,1281132	0	0	TRUE	286,8388057	0	276,303541	281,5622566	0	0	TRUE	34,8%	275,560186	0	0	TRUE	34,0%
5902	1	1673,458001	Empty	873,3843137	560,5553181	200,7268718	0,119947362	FALSE	572,9025237	0,05046917	572,9025237	539,8461317	221,4360583	0,132322447	FALSE	32,3%	487,4149516	273,8672383	0,163653488	FALSE	29,1%
5902	2	1673,458001	Empty	886,9759538	562,1514414	200,7268718	0,119947362	FALSE	562,5030757	0,05046917	562,5030757	548,2472379	221,4360583	0,132322447	FALSE	32,8%	649,8866022	273,8672383	0,163653488	FALSE	38,8%
5902	3	1673,458001	Empty	888,6263367	550,7512684	200,7268718	0,119947362	FALSE	538,0524013	0,05046917	538,0524013	585,3646311	221,4360583	0,132322447	FALSE	35,0%	536,1564468	273,8672383	0,163653488	FALSE	32,0%
5903	1	787,2760055	Non-Empty	610,9071961	207,7503778	0	0	TRUE	223,2841443	0	235,3748033	246,5704804	0	0	TRUE	31,3%	286,2821838	0	0	TRUE	36,4%
5903	2	787,2760055	Non-Empty	659,606856	237,9913783	0	0	TRUE	235,0664855	0	254,1381653	266,2263277	0	0	TRUE	33,8%	277,3358656	0	0	TRUE	35,2%
5903	3	787,2760055	Non-Empty	772,8337078	341,5342494	0	0	TRUE	328,9253757	0	297,7630369	274,4791974	0	0	TRUE	34,9%	223,6579561	0	0	TRUE	28,4%
5904	1	675,0039406	Non-Empty	603,1056582	267,729551	0	0	TRUE	249,069109	0	250,4990071	241,6996917	0	0	TRUE	35,8%	229,7885755	0	0	TRUE	34,0%
5904	2	675,0039406	Non-Empty	437,5561741	166,7586994	0	0	TRUE	212,6768899	0	181,7382836	175,3543362	0	0	TRUE	26,0%	215,4267896	0	0	TRUE	31,9%
5904	3	675,0039406	Non-Empty	584,4891037	240,5156902	0	0	TRUE	213,2579417	0	242,7666499	257,9499128	0	0	TRUE	38,2%	229,7885755	0	0	TRUE	34,0%
5905	1	1090,308729	Empty	560,851996	349,1888764	121,5686722	0,111499311	FALSE	346,3890815	0,034175349	346,3890815	369,3414064	149,9100262	0,137493191	FALSE	33,9%	278,3766969	181,8308502	0,166770058	FALSE	25,5%
5905	2	1090,308729	Empty	527,7974886	326,6843705	121,5686722	0,111499311	FALSE	334,4345771	0,034175349	334,4345771	347,5738129	149,9100262	0,137493191	FALSE	31,9%	371,1689291	181,8308502	0,166770058	FALSE	34,0%
5905	3	1090,308729	Empty	628,2492189	414,4354825	121,5686722	0,111499311	FALSE	409,4850707	0,034175349	409,4850707	373,3935101	149,9100262	0,137493191	FALSE	34,2%	440,7631033	181,8308502	0,166770058	FALSE	40,4%
5906	1	798,5469065	Non-Empty	676,3188484	234,6280305	0	0	TRUE	246,5254403	0	250,1131967	251,2866566	0	0	TRUE	31,5%	275,688813	0	0	TRUE	34,5%
5906	2	798,5469065	Non-Empty	731,9967201	268,1820863	0	0	TRUE	257,95568	0	270,7037369	271,9738018	0	0	TRUE	34,1%	256,6757914	0	0	TRUE	32,1%
5906	3	798,5469065	Non-Empty	750,9960208	295,7367897	0	0	TRUE	294,0657862	0	277,7299729	275,2864481	0	0	TRUE	34,5%	266,1823022	0	0	TRUE	33,3%
5907	1	1729,100885	Empty	849,7659893	578,8769337	234,5091999	0,135624938	FALSE	585,1358217	0,024107779	585,1358217	546,3241136	267,06202	0,154451381	FALSE	31,6%	534,7734696	278,612664	0,161131526	FALSE	30,9%
5907	2	1729,100885	Empty	890,871269	602,843342	234,5091999	0,135624938	FALSE	591,9633586	0,024107779	591,9633586	572,7511604	267,06202	0,154451381	FALSE	33,1%	659,5539459	278,612664	0,161131526	FALSE	38,1%
5907	3	1729,100885	Empty	819,9074575	547,3806094	234,5091999	0,135624938	FALSE	552,0017049	0,024107779	552,0017049	610,0256112	267,06202	0,154451381	FALSE	35,3%	534,7734696	278,612664	0,161131526	FALSE	30,9%
5908	1	1502,90284	Empty	762,6640949	485,3085794																

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5922	1	818,6954103	Non-Empty	578,5961863	273,3230799	0	0	TRUE	286,6259262	0	266,9566222	255,2672721	0	0	TRUE	31,2%	299,1387076	0	0	TRUE	36,5%
5922	2	818,6954103	Non-Empty	611,3251348	279,3758559	0	0	TRUE	266,0025297	0	282,0573259	269,7067545	0	0	TRUE	32,9%	236,1621376	0	0	TRUE	28,8%
5922	3	818,6954103	Non-Empty	584,5019473	265,9964745	0	0	TRUE	266,0669544	0	269,6814622	293,7213837	0	0	TRUE	35,9%	283,3945651	0	0	TRUE	34,6%
5923	1	661,0526064	Non-Empty	563,8282682	230,252506	0	0	TRUE	227,4848133	0	225,41601	207,362797	0	0	TRUE	31,4%	201,7950062	0	0	TRUE	30,5%
5923	2	661,0526064	Non-Empty	589,8657217	250,4252359	0	0	TRUE	241,7928197	0	235,825667	216,9387609	0	0	TRUE	32,8%	208,7534546	0	0	TRUE	31,6%
5923	3	661,0526064	Non-Empty	499,7828252	180,3748645	0	0	TRUE	191,7749734	0	199,8109294	236,7510484	0	0	TRUE	35,8%	250,5041456	0	0	TRUE	37,9%
5924	1	768,2474636	Non-Empty	466,7810843	218,8686158	0	0	TRUE	226,9576023	0	233,4274742	243,1047417	0	0	TRUE	31,6%	212,9794948	0	0	TRUE	27,7%
5924	2	768,2474636	Non-Empty	496,1162751	232,6139683	0	0	TRUE	225,1131165	0	248,0973906	258,382833	0	0	TRUE	33,6%	266,2243686	0	0	TRUE	34,7%
5924	3	768,2474636	Non-Empty	573,3544691	316,7648794	0	0	TRUE	316,1767448	0	286,7225987	266,7598889	0	0	TRUE	34,7%	289,0436001	0	0	TRUE	37,6%
5925	1	741,7381297	Non-Empty	713,075365	316,9725237	0	0	TRUE	301,0684732	0	280,9889459	258,3396991	0	0	TRUE	34,8%	257,3377185	0	0	TRUE	34,7%
5925	2	741,7381297	Non-Empty	618,9499184	224,1700269	0	0	TRUE	209,5889263	0	243,8986027	224,2390405	0	0	TRUE	30,2%	249,768962	0	0	TRUE	33,7%
5925	3	741,7381297	Non-Empty	550,3092189	200,5955791	0	0	TRUE	231,0807302	0	216,8505812	259,1593901	0	0	TRUE	34,9%	234,6314492	0	0	TRUE	31,6%
5926	1	811,49198	Non-Empty	728,8016456	269,8782243	0	0	TRUE	260,8073921	0	273,6710208	268,6749391	0	0	TRUE	33,1%	279,2230469	0	0	TRUE	34,4%
5926	2	811,49198	Non-Empty	699,0421438	265,0358352	0	0	TRUE	280,8821157	0	262,4960828	257,7040084	0	0	TRUE	31,8%	261,7716064	0	0	TRUE	32,3%
5926	3	811,49198	Non-Empty	733,205958	276,5779206	0	0	TRUE	269,8024722	0	275,3248764	285,1130324	0	0	TRUE	35,1%	270,4973267	0	0	TRUE	33,3%
5927	1	1259,274996	Empty	644,3737538	425,7312471	168,03272	0,133436081	FALSE	414,9679368	0,053845855	414,9679368	441,9812122	166,7412877	0,132410544	FALSE	35,1%	475,7261097	189,6818799	0,150627846	FALSE	37,8%
5927	2	1259,274996	Empty	543,5111992	357,4558256	168,03272	0,133436081	FALSE	379,2796484	0,053845855	379,2796484	372,7987635	166,7412877	0,132410544	FALSE	29,6%	335,8066657	189,6818799	0,150627846	FALSE	26,7%
5927	3	1259,274996	Empty	695,0276326	476,0879236	168,03272	0,133436081	FALSE	465,027411	0,053845855	465,027411	444,4950205	166,7412877	0,132410544	FALSE	35,3%	447,7422209	189,6818799	0,150627846	FALSE	35,6%
5928	1	947,7138907	Non-Empty	710,9250795	365,7303152	0	0	TRUE	367,8450977	0	338,6304638	312,0282316	0	0	TRUE	32,9%	337,7990106	0	0	TRUE	35,6%
5928	2	947,7138907	Non-Empty	675,7563623	306,3488754	0	0	TRUE	284,2509352	0	321,8787703	296,5925226	0	0	TRUE	31,3%	290,8824813	0	0	TRUE	30,7%
5928	3	947,7138907	Non-Empty	602,9610892	275,6347002	0	0	TRUE	295,6178579	0	287,2046566	339,0931366	0	0	TRUE	35,8%	319,0323989	0	0	TRUE	33,7%
5929	1	778,774876	Non-Empty	591,665206	228,7358591	0	0	TRUE	264,851131	0	233,1959923	220,9207856	0	0	TRUE	28,4%	282,4128671	0	0	TRUE	36,3%
5929	2	778,774876	Non-Empty	716,0224999	304,8481052	0	0	TRUE	292,7183293	0	282,2095598	267,3543274	0	0	TRUE	34,3%	265,2969358	0	0	TRUE	34,1%
5929	3	778,774876	Non-Empty	668,2210263	245,1909117	0	0	TRUE	221,2054157	0	263,3693239	290,4997629	0	0	TRUE	37,3%	231,0650731	0	0	TRUE	29,7%
5930	1	902,7097739	Non-Empty	557,7082039	262,0711354	0	0	TRUE	280,9113172	0	272,655319	262,7277834	0	0	TRUE	29,1%	309,7533538	2,940290383	0,003257182	FALSE	34,3%
5930	2	902,7097739	Non-Empty	651,3276155	337,6293416	0	0	TRUE	338,516318	0	318,4244691	306,8304527	0	0	TRUE	34,0%	247,802683	2,940290383	0,003257182	FALSE	27,5%
5930	3	902,7097739	Non-Empty	637,4297055	303,0632969	0	0	TRUE	283,2821388	0	311,6299858	333,1515378	0	0	TRUE	36,9%	345,1537371	2,940290383	0,003257182	FALSE	38,2%
5931	1	855,1485715	Non-Empty	682,9299739	246,3832142	0	0	TRUE	269,446162	0	261,4200639	262,1071232	0	0	TRUE	30,7%	308,2512293	0	0	TRUE	36,0%
5931	2	855,1485715	Non-Empty	760,1612564	284,1999208	0	0	TRUE	267,8482926	0	290,9835735	291,748331	0	0	TRUE	34,1%	228,7025249	0	0	TRUE	26,7%
5931	3	855,1485715	Non-Empty	790,8864638	324,5654366	0	0	TRUE	317,8541169	0	302,7449341	301,2931172	0	0	TRUE	35,2%	318,1948173	0	0	TRUE	37,2%
5932	1	1087,020472	Empty	542,3005907	359,4131252	99,59505576	0,091622061	FALSE	370,3337526	0,07592621	370,3337526	329,1537535	129,8544274	0,119459045	FALSE	30,3%	351,0170273	107,9911536	0,099346016	FALSE	32,3%
5932	2	1087,020472	Empty	601,7368368	386,5817738	99,59505576	0,091622061	FALSE	365,2348038	0,07592621	365,2348038	365,2290665	129,8544274	0,119459045	FALSE	33,6%	362,3401572	107,9911536	0,099346016	FALSE	33,3%
5932	3	1087,020472	Empty	524,407323	341,0255276	99,59505576	0,091622061	FALSE	351,4519152	0,07592621	351,4519152	392,6376516	129,8544274	0,119459045	FALSE	36,1%	373,6632871	107,9911536	0,099346016	FALSE	34,4%
5933	1	748,0536816	Non-Empty	639,1526424	234,0527962	0	0	TRUE	231,5160106	0	244,470015	238,3488907	0	0	TRUE	31,9%	233,7667755	0	0	TRUE	31,3%
5933	2	748,0536816	Non-Empty	667,9717578	259,8336003	0	0	TRUE	254,2585033	0	255,493062	249,0959388	0	0	TRUE	33,3%	271,1694596	0	0	TRUE	36,3%
5933	3	748,0536816	Non-Empty	648,6184632	254,1672851	0	0	TRUE	262,2791677	0	248,0906046	260,6088522	0	0	TRUE	34,8%	243,1174465	0	0	TRUE	32,5%
5934	1	1429,674314	Empty	740,7766654	494,9478342	169,2674948	0,118395842	FALSE	501,381072	0,044843534	501,381072	470,2975459	193,9177831	0,135637733	FALSE	32,9%	552,3741667	252,2249413	0,176421258	FALSE	38,6%
5934	2	1429,674314	Empty	709,534411	460,1639518	169,2674948	0,118395842	FALSE	463,0555618	0,044843534	463,0555618	450,4627479	193,9177831	0,135637733	FALSE	31,5%	373,6648775	252,2249413	0,176421258	FALSE	26,1%
5934	3	1429,674314	Empty	736,1494446	474,5625277	169,2674948	0,118395842	FALSE	465,2376799	0,044843534	465,2376799	508,9140199	193,9177831	0,135637733	FALSE	35,6%	503,6352696	252,2249413	0,176421258	FALSE	35,2%
5935	1	757,2731465	Non-Empty	725,7446458	267,4155552	0	0	TRUE	252,5433105	0	263,2570565	248,5733498	0	0	TRUE	32,8%	238,2432371	0	0	TRUE	31,5%
5935	2	757,2731465	Non-Empty	736,7578321	274,190608	0	0	TRUE	255,0802299	0	267,2519865	252,3454542	0	0	TRUE	33,3%	238,2432371	0	0	TRUE	31,5%
5935	3	757,2731465	Non-Empty	625,1412066	215,6669833	0	0	TRUE	249,649606	0	226,7641035	256,3543424	0	0	TRUE	33,9%	280,7866723	0	0	TRUE	37,1%
5936	1	647,1985403	Non-Empty	527,1407783	190,1941422	0	0	TRUE	190,1675203	0	205,7739836	193,4158374	0	0	TRUE	29,9%	228,4230142	0	0	TRUE	35,3%
5936	2	647,1985403	Non-Empty	592,8634719	263,8465229	0	0	TRUE	271,749588	0	231,4294082	217,5304768	0	0	TRUE	33,6%	213,1948133	0	0	TRUE	32,9%
5936	3	647,1985403	Non-Empty	537,9543326	193,1578753	0	0	TRUE	185,2814321	0	209,9951485	236,2522262	0	0	TRUE	36,5%	205,5807128	0	0	TRUE	31,8%
5937	1	833,5352159	Non-Empty	657,3297155	265,0173994	0	0	TRUE	290,1978282	0	262,6576862	250,3344449	0	0	TRUE	30,0%	360,1695377	0	0	TRUE	43,2%
5937	2	833,5352159	Non-Empty	720,3443015	300,3789911	0	0	TRUE	297,9064257	0	287,8372346	274,3326319	0	0	TRUE	32,9%	236,6828391	0	0	TRUE	28,4%
5937	3	833,5352159	Non-Empty	708,3394336	268,1388254	0	0	TRUE	245,430962	0	283,0402951	308,8681391	0	0	TRUE	37,1%	236,6828391	0	0	TRUE	28,4%
5938	1	1352,346858	Empty	753,4436518	513,8032487	174,0331184	0,128689705	FALSE	504,8255283	0,051397047	504,8255283	473,0934884	192,3893676	0,14226333	FALSE	35,0%	455,6820936	207,041298	0,153097777	FALSE	33,7%
5938	2	1352,346858	Empty	625,8770307	411,3496032	174,0331184	0,128689705	FALSE	427,4848583	0,051397047	427,4848583	392,993354	192,3893676	0,14226333	FALSE	29,1%	455,6820936	207,041298	0,153097777	FALSE	33,7%
5938	3	1352,346858	Empty	665,0142236	427,1940064	174,0331184	0,128689705	FALSE	420,0364718	0,051397047	420,0364718	486,2600159	192,3893676	0,14226333	FALSE	36,0%	440,9826712	207,041298	0,153097777	FALSE	32,6%
5939	1	472,5184444	Non-Empty	397,4647407	141,8912014	0	0	TRUE	149,9610879	0	148,6482338	147,3393817	0	0	TRUE	31,2%	181,7378632	0	0	TRUE	38,5%
593																					

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5953	1	751,9198952	Non-Empty	623,0070249	272,380149	0	0	TRUE	288,1837882	0	253,0512542	242,7046251	0	0	TRUE	32,3%	212,3067939	0	0	TRUE	28,2%
5953	2	751,9198952	Non-Empty	613,3003821	226,1643303	0	0	TRUE	205,4587936	0	249,1086372	238,9232117	0	0	TRUE	31,8%	318,4601909	0	0	TRUE	42,4%
5953	3	751,9198952	Non-Empty	614,9040334	253,3754159	0	0	TRUE	258,2773134	0	249,7600038	270,2920584	0	0	TRUE	35,9%	221,1529104	0	0	TRUE	29,4%
5954	1	978,893611	Empty	483,9420942	317,9245596	131,875577	0,134719009	FALSE	306,5791305	0,148660172	306,5791305	307,4906443	176,5203338	0,180326372	FALSE	31,4%	295,707445	119,9507339	0,122537049	FALSE	30,2%
5954	2	978,893611	Empty	484,1310178	352,2554408	131,875577	0,134719009	FALSE	375,0519694	0,148660172	375,0519694	307,610684	176,5203338	0,180326372	FALSE	31,4%	377,2819126	119,9507339	0,122537049	FALSE	38,5%
5954	3	978,893611	Empty	474,8368155	308,7136106	131,875577	0,134719009	FALSE	297,2625112	0,148660172	297,2625112	363,7922828	176,5203338	0,180326372	FALSE	37,2%	305,9042535	119,9507339	0,122537049	FALSE	31,3%
5955	1	905,8586103	Non-Empty	834,0184041	308,3919294	0	0	TRUE	307,6526541	0	304,5743187	297,9776212	0	0	TRUE	32,9%	234,8522323	0	0	TRUE	25,9%
5955	2	905,8586103	Non-Empty	825,1117922	299,8614969	0	0	TRUE	299,498401	0	301,3217223	294,7954719	0	0	TRUE	32,5%	313,1363097	0	0	TRUE	34,6%
5955	3	905,8586103	Non-Empty	821,390012	297,6051839	0	0	TRUE	298,7075552	0	299,9625693	313,0855172	0	0	TRUE	34,6%	357,8700683	0	0	TRUE	39,5%
5956	1	1211,202133	Empty	615,2887263	394,718563	151,0597144	0,124718831	FALSE	390,626867	0,038234399	390,626867	386,7816825	175,552607	0,144940801	FALSE	31,9%	384,7347952	167,5777769	0,138356573	FALSE	31,8%
5956	2	1211,202133	Empty	638,3414366	425,765928	151,0597144	0,124718831	FALSE	429,6688866	0,038234399	429,6688866	401,2730354	175,552607	0,144940801	FALSE	33,1%	455,9819795	167,5777769	0,138356573	FALSE	37,6%
5956	3	1211,202133	Empty	607,0073717	390,7176421	151,0597144	0,124718831	FALSE	390,9063795	0,038234399	390,9063795	423,1474152	175,552607	0,144940801	FALSE	34,9%	370,4853584	167,5777769	0,138356573	FALSE	30,6%
5957	1	719,591201	Non-Empty	608,0561514	230,6458839	0	0	TRUE	215,8949936	0	242,0664305	234,1337299	0	0	TRUE	32,5%	279,0251596	0	0	TRUE	38,8%
5957	2	719,591201	Non-Empty	601,7572619	244,3309676	0	0	TRUE	249,5640506	0	239,5588501	231,7083248	0	0	TRUE	32,2%	249,6540901	0	0	TRUE	34,7%
5957	3	719,591201	Non-Empty	597,7559195	244,6143495	0	0	TRUE	254,1321568	0	237,9659204	253,7491463	0	0	TRUE	35,3%	190,9119513	0	0	TRUE	26,5%
5958	1	664,2920167	Non-Empty	624,2996527	225,2137229	0	0	TRUE	264,5212764	0	246,93306	237,1432784	0	0	TRUE	35,7%	267,2439148	0	0	TRUE	40,2%
5958	2	664,2920167	Non-Empty	498,2643778	170,6813831	0	0	TRUE	181,4918717	0	197,0815568	189,2681624	0	0	TRUE	28,5%	213,7951318	0	0	TRUE	32,2%
5958	3	664,2920167	Non-Empty	556,9084362	218,3969107	0	0	TRUE	218,2788686	0	220,2773999	237,8805758	0	0	TRUE	35,8%	183,2529701	0	0	TRUE	27,6%
5959	1	1472,519677	Empty	806,6969477	519,6429175	170,3057675	0,115656022	FALSE	498,339455	0,059328765	498,339455	508,1669611	174,9805673	0,118830716	FALSE	34,5%	496,1751086	195,9993976	0,133104773	FALSE	33,7%
5959	2	1472,519677	Empty	719,3933653	462,1450674	170,3057675	0,115656022	FALSE	470,647337	0,059328765	470,647337	453,1713443	174,9805673	0,118830716	FALSE	30,8%	432,152514	195,9993976	0,133104773	FALSE	29,3%
5959	3	1472,519677	Empty	743,681067	490,7316923	170,3057675	0,115656022	FALSE	503,5328852	0,059328765	503,5328852	511,1813719	174,9805673	0,118830716	FALSE	34,7%	544,1920546	195,9993976	0,133104773	FALSE	37,0%
5960	1	854,3529427	Empty	490,7574255	318,8651441	73,46226226	0,085985848	FALSE	310,3329174	0,007047898	310,3329174	281,212476	91,84805885	0,10750599	FALSE	32,9%	314,2447605	78,641662	0,092048213	FALSE	36,8%
5960	2	854,3529427	Empty	460,1873011	294,6248284	73,46226226	0,085985848	FALSE	292,4224104	0,007047898	292,4224104	263,695267	91,84805885	0,10750599	FALSE	30,9%	304,4246118	78,641662	0,092048213	FALSE	35,6%
5960	3	854,3529427	Empty	393,4883799	240,8629701	73,46226226	0,085985848	FALSE	251,5976149	0,007047898	251,5976149	309,4451997	91,84805885	0,10750599	FALSE	36,2%	235,6835704	78,641662	0,092048213	FALSE	27,6%
5961	1	1383,343874	Empty	713,3190921	482,3791889	174,2234065	0,125943671	FALSE	478,9763749	0,011633365	478,9763749	436,0399862	210,4712233	0,152146713	FALSE	31,5%	526,9881427	249,7711832	0,180556106	FALSE	38,1%
5961	2	1383,343874	Empty	737,807676	503,7337503	174,2234065	0,125943671	FALSE	497,1969137	0,011633365	497,1969137	451,0094464	210,4712233	0,152146713	FALSE	32,6%	411,7094865	249,7711832	0,180556106	FALSE	29,8%
5961	3	1383,343874	Empty	614,8283739	397,2309353	174,2234065	0,125943671	FALSE	407,1705858	0,011633365	407,1705858	496,2944418	210,4712233	0,152146713	FALSE	35,9%	444,6462454	249,7711832	0,180556106	FALSE	32,1%
5962	1	850,045469	Non-Empty	808,3256665	306,8809774	0	0	TRUE	287,8408623	0	299,1014567	281,4483861	0	0	TRUE	33,1%	286,3311054	0	0	TRUE	33,7%
5962	2	850,045469	Non-Empty	793,2170718	301,2674533	0	0	TRUE	291,7224087	0	293,5108849	276,1877718	0	0	TRUE	32,5%	295,2789524	0	0	TRUE	34,7%
5962	3	850,045469	Non-Empty	695,7164524	241,8970382	0	0	TRUE	270,482198	0	257,4331275	292,4093112	0	0	TRUE	34,4%	268,4354113	0	0	TRUE	31,6%
5963	1	738,1303944	Empty	398,9573028	257,2236124	67,36633893	0,091266177	FALSE	249,28241	0,114058613	249,28241	245,0687014	86,62669295	0,117359607	FALSE	33,2%	311,6550554	105,0836788	0,142364655	FALSE	42,2%
5963	2	738,1303944	Empty	350,4822056	234,5521117	67,36633893	0,091266177	FALSE	252,4145059	0,114058613	252,4145059	215,2917577	86,62669295	0,117359607	FALSE	29,2%	196,8347719	105,0836788	0,142364655	FALSE	26,7%
5963	3	738,1303944	Empty	390,0683501	246,3546703	67,36633893	0,091266177	FALSE	236,4334786	0,114058613	236,4334786	277,7699354	86,62669295	0,117359607	FALSE	37,6%	229,6405672	105,0836788	0,142364655	FALSE	31,1%
5964	1	1607,699523	Empty	816,1988245	549,5766695	234,6931508	0,145980731	FALSE	552,6856673	0,033849984	552,6856673	538,4294472	239,0221642	0,148673406	FALSE	33,5%	507,6945861	269,7570254	0,167790698	FALSE	31,6%
5964	2	1607,699523	Empty	771,4254322	511,6214861	234,6931508	0,145980731	FALSE	521,5486928	0,033849984	521,5486928	508,8933684	239,0221642	0,148673406	FALSE	31,7%	592,3103505	269,7570254	0,167790698	FALSE	36,8%
5964	3	1607,699523	Empty	829,2687243	546,5013671	234,6931508	0,145980731	FALSE	533,4651626	0,033849984	533,4651626	560,3767071	239,0221642	0,148673406	FALSE	34,9%	507,6945861	269,7570254	0,167790698	FALSE	31,6%
5965	1	1492,493674	Empty	771,6312036	526,6672892	189,4266279	0,126919552	FALSE	539,8694251	0,063385081	539,8694251	485,3469033	230,7470138	0,15460502	FALSE	32,5%	567,1475963	199,8695162	0,133916491	FALSE	38,0%
5965	2	1492,493674	Empty	756,3412796	489,7031761	189,4266279	0,126919552	FALSE	481,2311229	0,063385081	481,2311229	475,7297219	230,7470138	0,15460502	FALSE	31,9%	477,5979758	199,8695162	0,133916491	FALSE	32,0%
5965	3	1492,493674	Empty	739,0193422	476,1232092	189,4266279	0,126919552	FALSE	471,3931265	0,063385081	471,3931265	531,4170493	230,7470138	0,15460502	FALSE	35,6%	447,7481023	199,8695162	0,133916491	FALSE	30,0%
5966	1	846,3849635	Non-Empty	699,1971966	248,432684	0	0	TRUE	249,5531861	0	268,7462497	250,325148	0	0	TRUE	29,6%	322,432367	0	0	TRUE	38,1%
5966	2	846,3849635	Non-Empty	824,6533443	364,4410461	0	0	TRUE	356,1137627	0	316,9670797	295,240701	0	0	TRUE	34,9%	211,5962409	0	0	TRUE	25,0%
5966	3	846,3849635	Non-Empty	678,1894667	233,5112333	0	0	TRUE	240,7180147	0	260,671634	300,8191145	0	0	TRUE	35,5%	312,3563556	0	0	TRUE	36,9%
5967	1	565,5489443	Non-Empty	506,0072313	178,4787585	0	0	TRUE	176,2494414	0	185,6515111	179,1507482	0	0	TRUE	31,7%	209,0072185	0	0	TRUE	37,0%
5967	2	565,5489443	Non-Empty	532,2641505	209,0877806	0	0	TRUE	211,2105663	0	195,280428	188,4469528	0	0	TRUE	33,3%	178,2708629	0	0	TRUE	31,5%
5967	3	565,5489443	Non-Empty	503,1750292	177,9824051	0	0	TRUE	178,0889366	0	184,6123904	197,9512433	0	0	TRUE	35,0%	178,2708629	0	0	TRUE	31,5%
5968	1	823,5613856	Non-Empty	696,9943208	306,5443334	0	0	TRUE	334,7581973	0	276,0293319	261,2513319	0	0	TRUE	31,7%	228,2158057	0	0	TRUE	27,7%
5968	2	823,5613856	Non-Empty	678,935071	256,4981489	0	0	TRUE	252,7250781	0	268,8773617	254,4822624	0	0	TRUE	30,9%	228,2158057	0	0	TRUE	27,7%
5968	3	823,5613856	Non-Empty	703,6235476	260,5189033	0	0	TRUE	236,0781102	0	278,654692	307,8277913	0	0	TRUE	37,4%	367,1297743	0	0	TRUE	44,6%
5969	1	1378,939831	Empty	637,1787575	425,6663959	184,5198483	0,133812835	FALSE	443,5914075												

Instance	Player	Total Cost Grand coalition	Core of the instance	Stand-alone cost	Shapley value	Shapley Epsilon Core	Shapley Epsilon Core % Total Cost	Shapley in the core	Nucleolus	f	EPM core	Cost Proportional	Cost Proportional Epsilon Core	Cost Proportional Epsilon Core in % of Total Cost	Cost Proportional in the core	Alpha Cost	Demand Proportional	Demand Proportional Epsilon Core	Demand Proportional Epsilon Core in % of Total Cost	Demand Proportional in the core	Alpha Demand
5984	1	1492,316093	Empty	675,4798674	445,792264	200,1902744	0,134147367	FALSE	454,2119725	0,045242895	454,2119725	467,7858088	233,3295308	0,15635396	FALSE	31,3%	436,7754419	293,49001	0,196667456	FALSE	29,3%
5984	2	1492,316093	Empty	735,5638451	489,4333956	200,1902744	0,134147367	FALSE	481,410258	0,045242895	481,410258	509,3953866	233,3295308	0,15635396	FALSE	34,1%	600,5662327	293,49001	0,196667456	FALSE	40,2%
5984	3	1492,316093	Empty	795,5943164	557,0904336	200,1902744	0,134147367	FALSE	556,6938628	0,045242895	556,6938628	515,1348979	233,3295308	0,15635396	FALSE	34,5%	454,9744187	293,49001	0,196667456	FALSE	30,5%
5985	1	743,0207766	Non-Empty	696,2273122	275,1614999	0	0	TRUE	269,1967414	0	260,1745864	246,0627073	0	0	TRUE	33,1%	236,0183643	0	0	TRUE	31,8%
5985	2	743,0207766	Non-Empty	679,7127172	252,3656789	0	0	TRUE	240,1196943	0	254,0032142	240,2260705	0	0	TRUE	32,3%	218,5355225	0	0	TRUE	29,4%
5985	3	743,0207766	Non-Empty	612,3839085	215,4935978	0	0	TRUE	233,7043408	0	228,842976	256,7319989	0	0	TRUE	34,6%	288,4668897	0	0	TRUE	38,8%
5986	1	1180,006454	Empty	516,6647847	368,7959294	172,5607013	0,146237083	FALSE	406,9862963	0,171442737	406,9862963	343,9528685	197,4037622	0,167290409	FALSE	29,1%	385,0547377	159,8491022	0,1354646	FALSE	32,6%
5986	2	1180,006454	Empty	608,3443953	398,5964732	172,5607013	0,146237083	FALSE	374,9077733	0,171442737	374,9077733	404,9856038	197,4037622	0,167290409	FALSE	34,3%	422,3180995	159,8491022	0,1354646	FALSE	35,8%
5986	3	1180,006454	Empty	613,1749409	412,6140518	172,5607013	0,146237083	FALSE	398,1123849	0,171442737	398,1123849	431,067982	197,4037622	0,167290409	FALSE	36,5%	372,6336172	159,8491022	0,1354646	FALSE	31,6%
5987	1	645,8017415	Non-Empty	631,4539724	266,1013069	0	0	TRUE	264,984429	0	234,5653951	222,6865486	0	0	TRUE	34,5%	200,1985399	0	0	TRUE	31,0%
5987	2	645,8017415	Non-Empty	562,0644036	193,0229003	0	0	TRUE	188,2171845	0	208,7893413	198,2158441	0	0	TRUE	30,7%	200,1985399	0	0	TRUE	31,0%
5987	3	645,8017415	Non-Empty	544,9907283	186,6775343	0	0	TRUE	192,6001279	0	202,4470051	224,8993488	0	0	TRUE	34,8%	245,4046618	0	0	TRUE	38,0%
5988	1	939,9392402	Empty	512,0259685	307,4918246	89,62799458	0,095355094	FALSE	305,1121794	0,022960409	305,1121794	302,0727895	93,96559688	0,099969863	FALSE	32,1%	313,3130801	95,96282918	0,102094715	FALSE	33,3%
5988	2	939,9392402	Empty	534,4641214	328,8822684	89,62799458	0,095355094	FALSE	325,4549141	0,022960409	325,4549141	315,3103124	93,96559688	0,099969863	FALSE	33,5%	313,3130801	95,96282918	0,102094715	FALSE	33,3%
5988	3	939,9392402	Empty	499,9126464	303,5651472	89,62799458	0,095355094	FALSE	309,3721467	0,022960409	309,3721467	322,5561383	93,96559688	0,099969863	FALSE	34,3%	313,3130801	95,96282918	0,102094715	FALSE	33,3%
5989	1	1042,74932	Non-Empty	966,6002392	367,9314246	0	0	TRUE	376,7138995	0	351,7924751	345,3171179	0	0	TRUE	33,1%	386,6373883	0	0	TRUE	37,1%
5989	2	1042,74932	Non-Empty	935,5611748	326,1632051	0	0	TRUE	324,2165249	0	340,4958616	334,2284384	0	0	TRUE	32,1%	281,1908279	0	0	TRUE	27,0%
5989	3	1042,74932	Non-Empty	962,9417745	348,6546903	0	0	TRUE	341,8188956	0	350,4609833	363,2037638	0	0	TRUE	34,8%	374,9211038	0	0	TRUE	36,0%
5990	1	795,2299778	Non-Empty	726,5425647	275,1614999	0	0	TRUE	269,1967414	0	270,5264931	269,7194929	0	0	TRUE	33,9%	246,1426122	0	0	TRUE	31,0%
5990	2	795,2299778	Non-Empty	675,2047401	233,6186463	0	0	TRUE	238,8620495	0	251,4109693	250,6609921	0	0	TRUE	31,5%	331,3458241	0	0	TRUE	41,7%
5990	3	795,2299778	Non-Empty	733,971164	287,2667834	0	0	TRUE	287,3918999	0	273,2925154	274,8494928	0	0	TRUE	34,6%	217,7415415	0	0	TRUE	27,4%
5991	1	685,7770863	Non-Empty	628,6508348	213,5910479	0	0	TRUE	216,4101438	0	222,2910615	221,7260844	0	0	TRUE	32,3%	197,0623811	0	0	TRUE	28,7%
5991	2	685,7770863	Non-Empty	653,4650459	235,8730501	0	0	TRUE	236,1599371	0	231,0653715	230,4780935	0	0	TRUE	33,6%	260,1223431	0	0	TRUE	37,9%
5991	3	685,7770863	Non-Empty	657,2978541	236,3129883	0	0	TRUE	233,2070054	0	232,4206533	233,5729084	0	0	TRUE	34,1%	228,5923621	0	0	TRUE	33,3%
5992	1	1546,44383	Empty	790,2523345	515,7675297	211,0032665	0,136444184	FALSE	510,0965373	0,034894563	510,0965373	505,5148855	204,3087284	0,132115195	FALSE	32,7%	629,3666748	286,6300843	0,185347879	FALSE	40,7%
5992	2	1546,44383	Empty	798,996892	523,4837623	211,0032665	0,136444184	FALSE	516,784445	0,034894563	516,784445	511,1086735	204,3087284	0,132115195	FALSE	33,1%	485,5114349	286,6300843	0,185347879	FALSE	31,4%
5992	3	1546,44383	Empty	763,6360405	507,1925377	211,0032665	0,136444184	FALSE	519,5628473	0,034894563	519,5628473	529,8202706	204,3087284	0,132115195	FALSE	34,3%	431,5657199	286,6300843	0,185347879	FALSE	27,9%
5993	1	1472,453791	Empty	667,8993199	473,2261528	207,0476666	0,140614033	FALSE	474,3278549	0,103366642	474,3278549	477,3903365	230,9797029	0,1568672	FALSE	32,4%	376,6742256	291,2250943	0,197782162	FALSE	25,6%
5993	2	1472,453791	Empty	668,165545	457,812772	207,0476666	0,140614033	FALSE	443,2348683	0,103366642	443,2348683	477,5806245	230,9797029	0,1568672	FALSE	32,4%	496,5251156	291,2250943	0,197782162	FALSE	33,7%
5993	3	1472,453791	Empty	723,7135341	541,4148664	207,0476666	0,140614033	FALSE	554,8910679	0,103366642	554,8910679	517,4828301	230,9797029	0,1568672	FALSE	35,1%	599,2544499	291,2250943	0,197782162	FALSE	40,7%
5994	1	926,2483742	Empty	521,3420427	348,4951715	112,7737104	0,121753207	FALSE	335,7862097	0,060040886	335,7862097	330,0783277	121,9290403	0,131637522	FALSE	35,6%	258,9511584	171,5936367	0,185256613	FALSE	28,0%
5994	2	926,2483742	Empty	412,3502522	270,2274678	112,7737104	0,121753207	FALSE	288,2425928	0,060040886	288,2425928	261,0721379	121,9290403	0,131637522	FALSE	28,2%	338,6284379	171,5936367	0,185256613	FALSE	36,6%
5994	3	926,2483742	Empty	472,9698075	307,5257349	112,7737104	0,121753207	FALSE	302,2195716	0,060040886	302,2195716	335,0979086	121,9290403	0,131637522	FALSE	36,2%	328,6687779	171,5936367	0,185256613	FALSE	35,5%
5995	1	1000,95102	Non-Empty	934,1194746	346,5120295	0	0	TRUE	337,4077951	0	341,6851036	339,5977099	0	0	TRUE	33,9%	302,9193878	0	0	TRUE	30,3%
5995	2	1000,95102	Non-Empty	881,3662723	303,844195	0	0	TRUE	304,8253284	0	322,3888744	320,4193637	0	0	TRUE	32,0%	381,9418368	0	0	TRUE	38,2%
5995	3	1000,95102	Non-Empty	920,9749054	350,5947959	0	0	TRUE	358,717897	0	336,8770425	340,9339469	0	0	TRUE	34,1%	316,0897959	0	0	TRUE	31,6%
5996	1	733,3409234	Non-Empty	508,4179447	215,7491746	0	0	TRUE	208,4535554	0	234,5724943	228,1418492	0	0	TRUE	31,1%	251,6365913	0	0	TRUE	34,3%
5996	2	733,3409234	Non-Empty	527,3017627	261,904293	0	0	TRUE	281,8799742	0	243,2850591	236,615565	0	0	TRUE	32,3%	266,0158251	0	0	TRUE	36,3%
5996	3	733,3409234	Non-Empty	553,7406686	255,6874558	0	0	TRUE	243,0073938	0	255,4833699	268,5835091	0	0	TRUE	36,6%	215,6885069	0	0	TRUE	29,4%
5997	1	748,9415549	Non-Empty	632,8915454	221,4520584	0	0	TRUE	221,9751116	0	238,8108679	249,1348233	0	0	TRUE	33,3%	217,7155683	0	0	TRUE	29,1%
5997	2	748,9415549	Non-Empty	615,2789765	210,1757234	0	0	TRUE	217,0350105	0	232,1650644	242,2017172	0	0	TRUE	32,3%	287,3845501	0	0	TRUE	38,4%
5997	3	748,9415549	Non-Empty	736,6586539	317,3137732	0	0	TRUE	309,9314328	0	277,9656226	257,6050145	0	0	TRUE	34,4%	243,8414365	0	0	TRUE	32,6%
5998	1	719,183534	Non-Empty	652,696311	224,782548	0	0	TRUE	225,7841205	0	234,0104326	238,84351	0	0	TRUE	33,2%	231,9946884	0	0	TRUE	32,3%
5998	2	719,183534	Non-Empty	638,3843872	217,3176459	0	0	TRUE	225,16624	0	228,8791956	233,6062962	0	0	TRUE	32,5%	247,4610009	0	0	TRUE	34,4%
5998	3	719,183534	Non-Empty	714,8488421	277,0833401	0	0	TRUE	268,2331735	0	256,2939057	246,7337277	0	0	TRUE	34,3%	239,7278447	0	0	TRUE	33,3%
5999	1	818,8894145	Non-Empty	690,717843	247,1486039	0	0	TRUE	236,4538203	0	267,1159934	268,4081534	0	0	TRUE	32,8%	258,128185	0	0	TRUE	31,5%
5999	2	818,8894145	Non-Empty	659,7082371	256,3716428	0	0	TRUE	285,9095038	0	255,1238873	256,3580361	0	0	TRUE	31,3%	258,128185	0	0	TRUE	31,5%
5999	3	818,8894145	Non-Empty	767,0867006	315,3691678	0	0	TRUE	296,5260904	0	296,6495338	294,123225	0	0	TRUE	35,9%	302,6330445	0	0	TRUE	37,0%
6000	1	1401,505438	Empty	733,043925	507,15561	180,1669746	0,128552462	FALSE	491,8515523	0,078970099	491,8515523	480,4641718	171,57164	0,122419532	FALSE	34,3%	420,4516313	231,5841805	0,165239588	FALSE	30,0%
6000	2	1401,505438	Empty	646,7532182	431,4903035	180,1669746	0,128552462	FALSE	426,811646	0,078970099	426,811646	423,9060427	171,57164	0,122419532	FALSE	30,2%	498,3130445	231,5841805	0,1		