Zhao-Di Yang,[†‡] Rhitankar Pal,[§] Gia L. Hoang,[‡] Xiao Cheng Zeng,[‡] and James M. Takacs*[‡]*

[†] Key Laboratory of Green Chemical Engineering and Technology of College of Heilongjiang Province, College of Chemical and Environmental Engineering, Harbin University of Science and Technology, Harbin 150040, P. R. China

[‡] Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588, United States

[§] Department of Chemistry, Yale University, New Haven, CT 06518, United States

Email: jtakacs1@unl.edu; xzeng1@unl.edu

General procedures. The reaction was carried out in a dry nitrogen atmosphere. Tetrahydrofuran (THF) was freshly distilled from sodium metal and benzophenone. HPLC solvents were filtered through Millipore filter paper. When indicated in the following procedures, THF was degassed by freezing under reduced pressure followed by a dry nitrogen atmosphere thaw (3–4 times). 4,4,6-Trimethyl-1,3,2-dioxaborinane (tmdBH) was distilled immediately before use. The synthesized compound was purified with flash chromatography using EMD Silica Gel 60 Geduran®. Thin Layer Chromatography analysis was performed on Analtech Silica Gel HLF (0.25 mm) precoated analytical plates and visualized with use of handheld short wavelength UV light, Iodine stain (I_2 and EMD Silica Gel 60 Geduran®) and Vanillin stain (Ethanol, H_2SO_4, and vanillin). HPLC analysis was performed with use of an ISCO model 2360 HPLC and Chiral Technologies, Inc. chiral HPLC column (Chiralpak-IC; column: 4.6 x 250 mm). NMR spectra were recorded on 400 MHz Bruker Advance NMR spectrometers using residue $CHCl_3$ (δ 7.27 ppm) or $CDCl_3$ (δ 77.0 ppm) for reference unless otherwise specified. Peaks are expressed as m (unresolved multiplet), q (quartet), t (triplet), d (doublet) or s (singlet). IR spectrum was recorded using an Avatar 360 FT-IR. Optical rotation was measured as solutions, 1.0 g/100 mL in chloroform unless indicated otherwise, and recorded using an Autopol III automatic polarimeter. HRMS analysis was performed by the Nebraska Center for Mass Spectrometry.
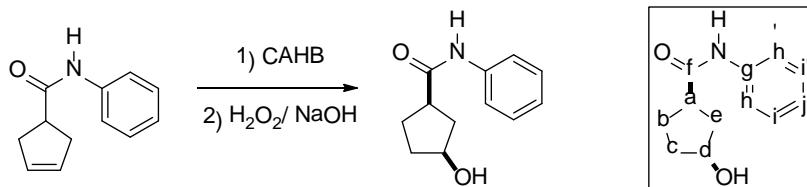

Preparation of (1*R*,3*S*)-3-hydroxycyclopentanecarboxylic acid phenyl amide. To a yellow solution of Rh(nbd)$_2$BF$_4$ (2.0 mg, 0.0053 mmol) and (*R*,*R*)-**L1** (4.7 mg, 0.011 mmol) in THF (2.0 mL)

was added γ,δ-unsaturated amide **1** (99 mg, 0.53 mmol) as a solution in THF (2.0 mL). To the resulting solution was slowly added (i.e., dropwise over the course of 0.5 h) a solution of 4,4,6-trimethyl-1,3,2-dioxaborinane (tmdBH, **7**, 135 mg, 1.10 mmol) in THF (1.0 mL). The mixture was then stirred at 40 °C for 20 h. After cooling to room temperature, the resultant mixture was diluted with THF (10 mL) followed by addition of methanol (8 mL), sodium hydroxide (6 mL of a 3.0 M soln.), and the slow addition of H_2O_2 (1.0 mL of a 30% solution). The resulting mixture stirred (2 h) and then extracted with dichloromethane (3 x 15 mL). The combined organic extracts were dried (anhyd. Na_2SO_4) and concentrated under reduced pressure. Flash chromatography on silica gel (80–40:20–60 hexanes:ethyl acetate) affords the title compound (86.6 mg, 80%) as a white solid: mp 100.0–101.5 °C; TLC analysis R_f 0.4 (50:50 hexanes:ethyl acetate); $[\alpha]_D^{20} = -0.14°$ (*c* 1.0, CHCl$_3$); Chiral HPLC analysis (Chiralpak-IC, 80:20 hexanes:isopropanol, flow rate = 1.0 mL/min) showed peaks at 56 minutes (3.0% (1*S*,3*R*)) and 64 minutes (97.0% (1*R*,3*S*) (see traces for racemate and enriched below); ^{1}H NMR (400 MHz, CDCl$_3$) δ 8.84 (1H, br s, NH), 7.54 (2H, d, *J* = 7.9 Hz, h,h'), 7.31 (2H, t, *J* = 7.8 Hz, i,i'), 7.11 (1H, t, *J* = 7.3 Hz, j), 4.56 (1H, d, *J* = 6.6 Hz, d), 4.40 (1H, br s, OH), 3.05–2.90 (1H, m, a), 2.20–1.90 (5H, m, b,c,e), 1.80–1.65 (1H, m, c); ^{13}C NMR (100 MHz, CDCl$_3$) δ 177.41 (f), 138.18 (a), 128.93 (i,i'), 124.32 (j), 120.11 (h,h'), 73.89 (d), 45.28 (a), 38.94 (e), 36.50 (b), 29.20 (c); IR (neat) 3677 (N-H stretch, O-H stretch), 2907, 2803, 1728 (C=O stretch), 1663, 1597 (N-H bend), 1565, 1389 (C-N stretch), 1238 (C-OH bend), 1050 (C-OH stretch) cm^{-1}; HRMS (ESI) calcd. for $C_{12}H_{15}NNaO_2$ (M+Na): 228.1000, found 228.1002 *m/z*.

Chiral HPLC:

racemate

CAHB product

8.840

7.554
7.534
7.327
7.308
7.288
7.123
7.105
7.087

4.571
4.554
4.403

2.972

2.047
1.739

ppm

0.94

0.97
2.03
0.97

1.00
0.97

1.00

5.05
0.99
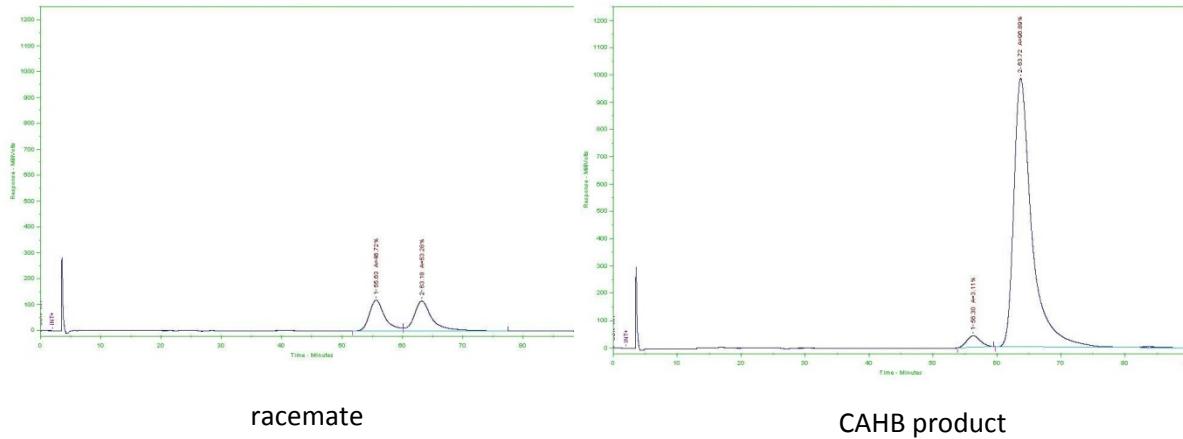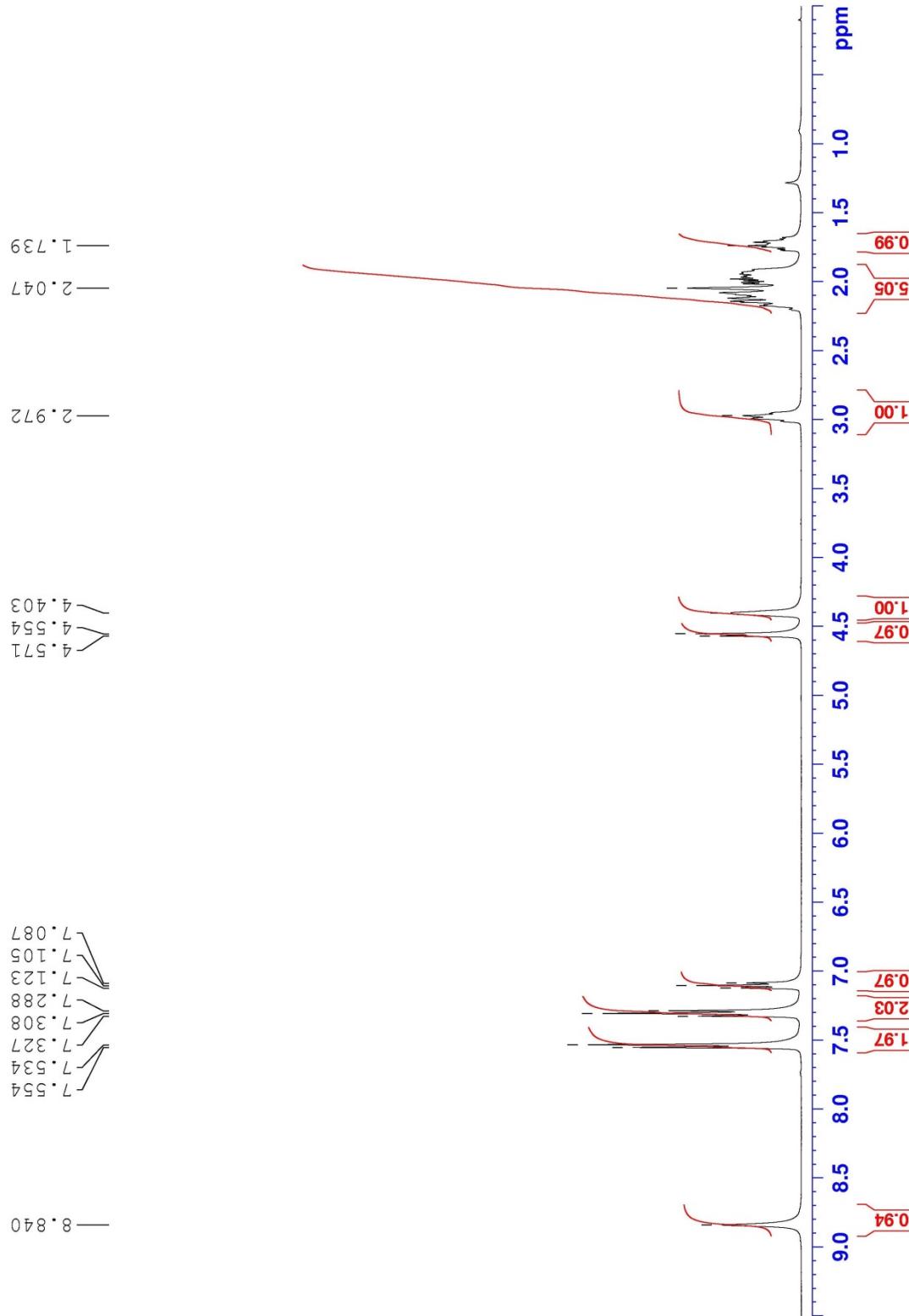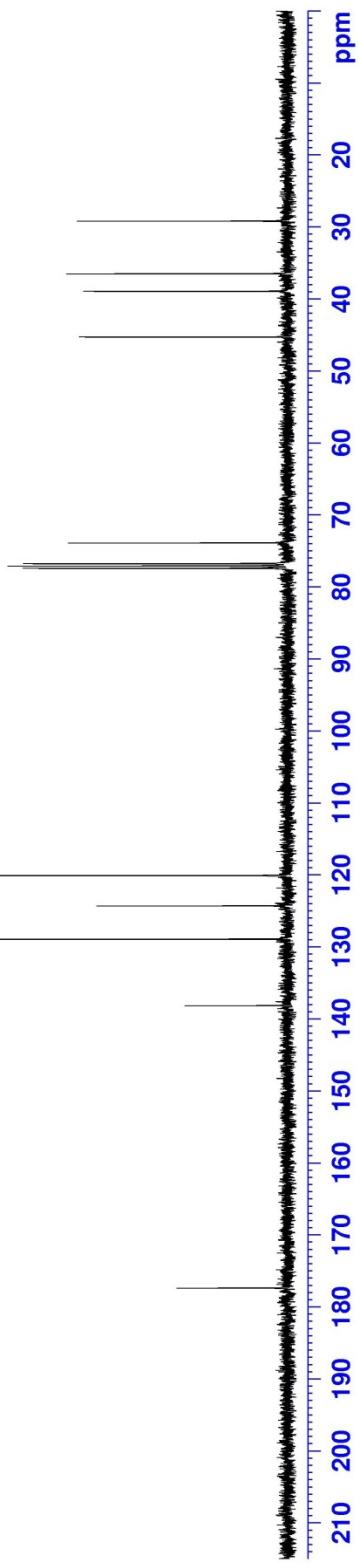
Table S-1 Relative Free Energies after correction according formula (1) and Relative Energies before correction

	After correction ΔG/kcal/mol	Before correction ΔE/ kcal/mol
Reactants= $[RhL_2S_2]^+$ + Substrate + PinBH	0	0
Im0+PinBH+2THF	-10.59	1.46
TS1+2THF	17.19	18.75
Im1+2THF	5.17	7.81
TS2+2THF	6.40	9.98
Im2+2THF	1.96	2.20
TS3+THF	21.23	4.31
Im3+THF	20.82	2.57
TS4+THF	41.83	22.34
Im4+THF	-3.78	-20.61
TS5+2THF	9.70	8.58
Im5+2THF	4.19	3.80
TS6+2THF	20.94	18.53
Im6+2THF	-2.19	-2.58
TS7+2THF	28.50	27.31
Im7+2THF	-1.63	-2.49
TS8+2THF	23.30	25.06
Im8+2THF	8.75	13.05
TS9+2THF	15.99	18.78
Im9+2THF	6.53	6.24
TS10+2THF	25.94	27.27
Im10+2THF	-0.61	-1.74
Products =Major product +$[RhL_2S_2]^+$	-5.67	-24.42

Note: The data with red color show that dramatic relative energy difference was observed in the elementary process that involves either the formation of adduct or the release of product.

Cartesian coordinates of all studied molecules calculated by 6-31+G**/LANL2DZ basis set using B3LYP functional with DFT in model reaction.

Substrate
```
8    0    0.654143    1.463297   -0.000359
6    0    0.732958    0.238681   -0.001490
7    0   -0.362413   -0.596558   -0.001884
1    0   -0.158613   -1.586015   -0.003190
6    0    2.081035   -0.476514   -0.002208
1    0    1.935774   -1.563987   -0.005788
6    0    2.952415   -0.107348    1.237072
1    0    2.662119    0.873727    1.636211
1    0    2.836634   -0.835464    2.048664
6    0    2.955553   -0.099541   -1.236773
1    0    2.666164    0.884052   -1.630315
1    0    2.841845   -0.822464   -2.053288
```

6	0	4.354712	-0.055309	-0.666386
6	0	4.353026	-0.059616	0.670539
1	0	5.236178	0.015715	1.298050
1	0	5.239472	0.023982	-1.291139
6	0	-1.738795	-0.274669	-0.000813
6	0	-2.647447	-1.347222	-0.002450
6	0	-2.224683	1.042696	0.001882
6	0	-4.020447	-1.111117	-0.001363
1	0	-2.275582	-2.369757	-0.004582
6	0	-3.604737	1.262097	0.002940
1	0	-1.527656	1.868572	0.003032
6	0	-4.509616	0.198575	0.001355
1	0	-4.706654	-1.953029	-0.002662
1	0	-3.970654	2.284912	0.005038
1	0	-5.579119	0.385003	0.002203

PinBH

8	0	-1.084283	1.203226	-0.370068
8	0	1.084828	1.203310	0.369197
6	0	-0.789672	-0.192089	-0.045848
6	0	0.789542	-0.192499	0.045820
6	0	1.376622	-1.075178	1.145197
1	0	1.010678	-0.790311	2.133367
1	0	1.131465	-2.128384	0.970161
1	0	2.466065	-0.976584	1.147596
6	0	1.483031	-0.485652	-1.291089
1	0	1.359962	-1.532492	-1.585327
1	0	1.094935	0.149250	-2.092641
1	0	2.552153	-0.280460	-1.186044
6	0	-1.377077	-1.075621	-1.144509
1	0	-1.132162	-2.128726	-0.968600
1	0	-2.466491	-0.976701	-1.146920
1	0	-1.011153	-0.791613	-2.132935
6	0	-1.483145	-0.484341	1.291338
1	0	-2.552191	-0.278673	1.186367
1	0	-1.360483	-1.531084	1.586030
1	0	-1.094601	0.150818	2.092478
5	0	0.000264	1.951283	-0.000194
1	0	0.000331	3.138537	-0.001046

THF

8	0	-0.000185	-1.252863	-0.000013
6	0	-1.171077	-0.429237	0.131164
6	0	1.170947	-0.429563	-0.131150
6	0	-0.734625	0.997030	-0.225453
1	0	-1.948396	-0.824792	-0.531255
1	0	-1.536138	-0.487728	1.167112
6	0	0.734916	0.996835	0.225445
1	0	1.948140	-0.825312	0.531300
1	0	1.536051	-0.488151	-1.167079
1	0	-1.341747	1.760404	0.270349

1	0	-0.801367	1.159138	-1.307639
1	0	0.801691	1.158920	1.307632
1	0	1.342272	1.760030	-0.270351

$[RhL_2S_2]^+$

15	0	1.562043	-1.010790	-0.005684
8	0	1.194060	-2.598410	-0.039513
8	0	2.617407	-0.879125	-1.256056
8	0	2.588399	-0.926729	1.273031
6	0	2.326369	-3.519093	-0.047831
6	0	3.732053	-1.823981	-1.249593
6	0	3.698937	-1.876303	1.260965
6	0	3.645129	-2.732282	-0.013641
1	0	2.242265	-4.124451	-0.955378
1	0	2.220733	-4.166346	0.827950
1	0	3.672427	-2.399735	-2.178095
1	0	4.655680	-1.236769	-1.252756
1	0	4.624083	-1.294226	1.315522
1	0	3.609513	-2.489674	2.162627
1	0	4.487117	-3.433821	-0.017096
15	0	-1.645615	-0.957659	-0.007137
8	0	-1.755535	-1.956472	-1.293064
8	0	-1.738768	-1.990359	1.253403
8	0	-3.149623	-0.290420	0.011937
6	0	-2.871620	-2.895717	-1.281447
6	0	-2.850226	-2.934872	1.226663
6	0	-4.256320	-1.246661	0.010936
6	0	-3.718961	-2.687215	-0.016551
1	0	-2.447467	-3.903785	-1.319814
1	0	-3.452624	-2.717330	-2.191407
1	0	-2.421273	-3.941678	1.223688
1	0	-3.417299	-2.790531	2.151264
1	0	-4.847596	-1.057656	0.912217
1	0	-4.868047	-1.031099	-0.870535
1	0	-4.561694	-3.387836	-0.020320
8	0	1.530419	2.073835	0.024665
6	0	2.262967	2.499929	1.215598
6	0	2.166883	2.575159	-1.188411
6	0	3.547815	3.134272	0.682130
1	0	1.633499	3.221370	1.748168
1	0	2.426593	1.621014	1.841811
6	0	3.121667	3.661863	-0.699469
1	0	2.686048	1.740613	-1.670557
1	0	1.375675	2.940282	-1.847480
1	0	4.333383	2.378039	0.577915
1	0	3.920840	3.920825	1.343112
1	0	3.964217	3.803863	-1.381149
1	0	2.598036	4.618865	-0.601076
45	0	-0.017661	0.525885	0.005413
8	0	-1.401742	2.213020	0.010600
6	0	-2.082004	2.664221	1.224645

6	0	-2.125896	2.656334	-1.172552
6	0	-3.308671	3.445507	0.740656
1	0	-2.335814	1.787940	1.824828
1	0	-1.370509	3.289283	1.773294
6	0	-2.921137	3.864109	-0.689353
1	0	-1.382884	2.879398	-1.941233
1	0	-2.776432	1.843169	-1.511252
1	0	-3.531030	4.297337	1.388227
1	0	-4.188666	2.795286	0.719746
1	0	-2.290293	4.759431	-0.677326
1	0	-3.788995	4.065825	-1.322642

Major product

8	0	0.997108	-0.141485	0.539458
6	0	1.534075	0.898752	0.165197
7	0	2.884268	1.004580	-0.087305
1	0	3.200238	1.915051	-0.390090
6	0	0.735723	2.175700	-0.081321
1	0	1.424906	3.004822	-0.282885
6	0	3.897075	0.022977	-0.005282
6	0	5.199525	0.414605	-0.361156
6	0	3.662828	-1.298325	0.408467
6	0	6.252290	-0.496218	-0.307394
1	0	5.386186	1.437231	-0.682401
6	0	4.729564	-2.199550	0.456705
1	0	2.662492	-1.600622	0.683398
6	0	6.023850	-1.813230	0.102475
1	0	7.251188	-0.174284	-0.587178
1	0	4.537542	-3.219395	0.778013
1	0	6.842486	-2.525034	0.144802
6	0	-0.240635	2.015026	-1.301510
1	0	-0.036118	2.812236	-2.024695
1	0	-0.098978	1.063425	-1.821210
6	0	-1.678595	2.164523	-0.723865
1	0	-2.318523	2.657969	-1.470538
6	0	-1.473010	3.068251	0.510589
1	0	-2.308690	3.030868	1.215962
1	0	-1.345718	4.114294	0.198811
6	0	-0.169790	2.535634	1.129476
1	0	-0.381261	1.624494	1.697724
1	0	0.313248	3.249669	1.804921
5	0	-2.366463	0.776092	-0.408951
8	0	-2.944336	0.450805	0.794137
8	0	-2.487344	-0.223884	-1.344953
6	0	-3.651443	-0.815363	0.631986
6	0	-2.973269	-1.420190	-0.663505
6	0	-5.134228	-0.466544	0.444845
6	0	-3.462045	-1.637189	1.905517
6	0	-1.742186	-2.286218	-0.366777
6	0	-3.922382	-2.159993	-1.604767
1	0	-5.752161	-1.366227	0.362844

1	0	-5.474465	0.106664	1.312195
1	0	-5.292459	0.145444	-0.448041
1	0	-3.936304	-1.121588	2.746108
1	0	-3.928505	-2.623506	1.805810
1	0	-2.405391	-1.771528	2.143144
1	0	-1.020090	-1.758720	0.261542
1	0	-2.022443	-3.227257	0.117491
1	0	-1.246063	-2.523505	-1.312589
1	0	-4.354552	-3.036765	-1.109924
1	0	-4.734873	-1.519302	-1.953312
1	0	-3.366770	-2.506333	-2.481238

Im0

45	0	-0.482945	-0.649202	-0.000252
8	0	1.676515	-0.835796	0.000279
6	0	2.311879	-1.916846	0.002965
7	0	3.657449	-1.963704	0.002187
1	0	4.051000	-2.895719	0.004348
6	0	1.583369	-3.245706	0.007050
1	0	2.301771	-4.069676	0.009501
6	0	0.629614	-3.323416	-1.223830
1	0	0.995128	-2.763218	-2.090247
1	0	0.514101	-4.368315	-1.543271
6	0	0.629620	-3.316124	1.238359
1	0	0.995164	-2.750993	2.101547
1	0	0.513929	-4.359151	1.563806
6	0	-0.695448	-2.823357	0.697683
6	0	-0.695444	-2.827473	-0.686037
1	0	-1.584921	-2.819705	-1.306761
1	0	-1.584849	-2.811934	1.318487
6	0	4.631527	-0.923343	-0.001737
6	0	5.973822	-1.333119	-0.004108
6	0	4.306278	0.439047	-0.003028
6	0	6.994142	-0.384690	-0.007827
1	0	6.221578	-2.392503	-0.003108
6	0	5.344083	1.375713	-0.006740
1	0	3.274184	0.760013	-0.001026
6	0	6.682516	0.978267	-0.009173
1	0	8.029165	-0.711761	-0.009666
1	0	5.096365	2.433135	-0.007708
1	0	7.475128	1.719777	-0.012058
15	0	-2.690168	-0.437927	-0.002568
8	0	-3.443317	-1.165127	-1.265472
8	0	-3.446019	-1.152981	1.265461
8	0	-3.371661	1.042420	-0.010591
6	0	-4.903455	-1.106641	-1.256252
6	0	-4.905973	-1.090186	1.255181
6	0	-4.831872	1.073195	-0.014571
6	0	-5.390528	-0.357773	-0.005877
1	0	-5.268701	-2.137969	-1.275672
1	0	-5.211342	-0.600505	-2.176012

1	0	-5.273961	-2.120116	1.289202
1	0	-5.212757	-0.570075	2.167510
1	0	-5.142811	1.632501	0.872880
1	0	-5.138585	1.620115	-0.911188
1	0	-6.485780	-0.320132	-0.007247
15	0	-0.175083	1.654991	0.001746
8	0	-0.793054	2.469948	1.274535
8	0	1.380831	2.168607	0.008359
8	0	-0.782922	2.471777	-1.274692
6	0	-0.599105	3.916405	1.256177
6	0	1.560999	3.618875	0.013439
6	0	-0.583425	3.917488	-1.255930
6	0	0.195158	4.324535	0.005210
1	0	-0.068719	4.182100	2.175518
1	0	-1.592230	4.375909	1.269388
1	0	2.135532	3.868955	0.910636
1	0	2.148270	3.873142	-0.874252
1	0	-0.039485	4.180025	-2.168260
1	0	-1.574607	4.380437	-1.283347
1	0	0.347041	5.409816	0.006602

Im1

45	0	-0.270711	-0.139737	-0.693605
1	0	-0.367729	0.746609	-1.992649
5	0	-2.312942	0.010279	-0.753451
8	0	-3.055965	-0.697338	-1.668608
8	0	-3.083544	0.769542	0.085217
6	0	-4.670599	2.026339	-1.219191
1	0	-3.984627	2.087560	-2.068654
1	0	-5.696278	2.102699	-1.592736
1	0	-4.480212	2.885301	-0.569492
6	0	-5.403647	0.714490	0.790837
1	0	-6.446767	0.633618	0.466890
1	0	-5.180428	-0.116625	1.462178
1	0	-5.297296	1.645118	1.355686
6	0	-4.832609	-1.840552	-0.514317
1	0	-5.888631	-1.845938	-0.227951
1	0	-4.649416	-2.711581	-1.150476
1	0	-4.221216	-1.943114	0.386164
6	0	-5.297015	-0.486265	-2.577122
1	0	-5.206712	-1.423588	-3.133841
1	0	-6.356808	-0.334279	-2.345884
1	0	-4.962508	0.326550	-3.224346
8	0	2.068141	-0.302567	-0.804936
6	0	2.697893	-1.081052	-1.542266
7	0	4.052879	-1.111028	-1.582908
1	0	4.456179	-1.793127	-2.211114
6	0	1.977552	-2.063893	-2.453392
1	0	2.706532	-2.655812	-3.013829
6	0	1.010528	-1.312074	-3.418198
1	0	1.342439	-0.300670	-3.666564

1	0	0.926408	-1.865512	-4.363545
6	0	1.036580	-2.981617	-1.615550
1	0	1.394761	-3.153098	-0.598229
1	0	0.950109	-3.962972	-2.102301
6	0	-0.315077	-2.293855	-1.693305
6	0	-0.333195	-1.369721	-2.719312
1	0	-1.242905	-1.015854	-3.186952
1	0	-1.213768	-2.736410	-1.279242
6	0	5.006584	-0.349913	-0.851130
6	0	6.353289	-0.710680	-1.015768
6	0	4.662442	0.717446	-0.008989
6	0	7.354360	-0.014441	-0.341613
1	0	6.618411	-1.537556	-1.671305
6	0	5.680107	1.402598	0.661611
1	0	3.627304	1.004376	0.113463
6	0	7.021417	1.047410	0.504724
1	0	8.391861	-0.303564	-0.478048
1	0	5.413667	2.228192	1.315288
1	0	7.799023	1.590812	1.032227
15	0	-0.164769	1.965409	0.160928
8	0	-0.796283	2.294534	1.622028
8	0	1.372063	2.499787	0.328368
8	0	-0.820076	3.131479	-0.776567
6	0	-0.597263	3.654374	2.107352
6	0	1.504811	3.889383	0.758521
6	0	-0.713360	4.489465	-0.253361
6	0	0.119050	4.493852	1.038440
1	0	-0.010608	3.588412	3.029238
1	0	-1.587261	4.057772	2.340370
1	0	2.128342	3.886418	1.657660
1	0	2.026269	4.428415	-0.038614
1	0	-0.245964	5.093956	-1.036222
1	0	-1.730090	4.854520	-0.077192
1	0	0.235072	5.523262	1.395889
15	0	-0.327796	-1.371554	1.380308
8	0	-1.666964	-2.295456	1.612425
8	0	0.860607	-2.484532	1.628975
8	0	-0.261623	-0.519088	2.772801
6	0	-1.704746	-3.066412	2.850617
6	0	0.802255	-3.210531	2.893714
6	0	-0.361744	-1.288537	4.006391
6	0	-0.444705	-2.788775	3.686041
1	0	-1.778385	-4.123048	2.574213
1	0	-2.612615	-2.773040	3.386519
1	0	0.782001	-4.277872	2.651896
1	0	1.722258	-2.985608	3.442368
1	0	0.524224	-1.054422	4.604511
1	0	-1.253840	-0.939639	4.536117
1	0	-0.494016	-3.360438	4.619666
6	0	-4.464406	0.738384	-0.412332
6	0	-4.472269	-0.571188	-1.295318

Im2

5	0	-2.267022	-0.026966	-0.623515
8	0	-2.936108	-0.251682	-1.801354
8	0	-3.081664	0.392506	0.391349
6	0	-4.378229	-0.166389	-1.518992
6	0	-4.405267	0.672536	-0.179579
6	0	-4.475476	2.187831	-0.403780
1	0	-3.706331	2.528720	-1.102053
1	0	-5.455600	2.487415	-0.786847
1	0	-4.313382	2.692253	0.553156
6	0	-5.461753	0.241198	0.834455
1	0	-6.469360	0.384336	0.429745
1	0	-5.346395	-0.805805	1.120560
1	0	-5.371371	0.852216	1.737271
6	0	-4.873659	-1.607760	-1.351815
1	0	-5.953563	-1.639211	-1.178288
1	0	-4.660902	-2.165664	-2.268384
1	0	-4.371598	-2.111918	-0.521105
6	0	-5.060594	0.493626	-2.713928
1	0	-4.962052	-0.148229	-3.594250
1	0	-6.129261	0.633955	-2.519268
1	0	-4.619120	1.463584	-2.950164
8	0	2.089203	-0.362730	-0.727830
6	0	2.737015	-1.072128	-1.520845
7	0	4.091533	-1.102520	-1.525757
1	0	4.510967	-1.732907	-2.196185
6	0	2.040518	-1.937199	-2.559021
1	0	2.775489	-2.560359	-3.077986
6	0	5.025587	-0.407065	-0.707170
6	0	6.368602	-0.799831	-0.818371
6	0	4.666372	0.633716	0.161249
6	0	7.351643	-0.160297	-0.065763
1	0	6.644888	-1.606937	-1.493595
6	0	5.665527	1.261644	0.910864
1	0	3.634921	0.946902	0.243824
6	0	7.003319	0.874918	0.806888
1	0	8.386836	-0.473022	-0.161572
1	0	5.387270	2.067211	1.584239
1	0	7.766638	1.374010	1.395536
15	0	-0.040842	1.982658	0.284341
8	0	-0.594894	2.373240	1.770600
8	0	1.490519	2.576798	0.341539
8	0	-0.783717	3.109854	-0.655711
6	0	-0.463818	3.771657	2.156978
6	0	1.617881	3.964744	0.771059
6	0	-0.617847	4.498056	-0.240464
6	0	0.229544	4.567248	1.039908
1	0	0.114545	3.796789	3.085898
1	0	-1.471619	4.150737	2.354460
1	0	2.236694	3.972121	1.674152

1	0	2.142016	4.501896	-0.025558
1	0	-0.139165	5.030646	-1.068306
1	0	-1.618794	4.911151	-0.080982
1	0	0.339281	5.612941	1.348891
15	0	-0.540256	-1.486969	1.257865
8	0	-1.795664	-2.536685	1.248782
8	0	0.715511	-2.497809	1.556509
8	0	-0.717442	-0.737743	2.688953
6	0	-1.886161	-3.419547	2.409105
6	0	0.596033	-3.300331	2.772222
6	0	-0.915035	-1.607297	3.843683
6	0	-0.780166	-3.077587	3.419701
1	0	-1.795754	-4.447381	2.043773
1	0	-2.881252	-3.278319	2.841138
1	0	0.737227	-4.344671	2.478147
1	0	1.409198	-3.003347	3.441802
1	0	-0.158387	-1.328747	4.582792
1	0	-1.909345	-1.392042	4.246970
1	0	-0.877893	-3.723658	4.299506
45	0	-0.231018	-0.253860	-0.561697
6	0	0.930239	-2.797584	-1.905575
1	0	0.729719	-3.656911	-2.560990
1	0	1.212119	-3.196120	-0.927033
6	0	-0.302393	-1.898084	-1.871654
1	0	-1.262414	-2.406400	-1.835211
6	0	-0.128723	-0.826673	-2.915813
1	0	-0.117605	0.237285	-2.439617
1	0	-0.974660	-0.719818	-3.597731
6	0	1.248478	-1.058789	-3.570954
1	0	1.766914	-0.134927	-3.842622
1	0	1.101980	-1.636577	-4.489999

Im3

5	0	-2.298773	0.002843	-0.461161
8	0	-2.982597	0.226338	-1.632656
8	0	-3.127431	-0.029398	0.633653
6	0	-4.419949	0.128719	-1.348241
6	0	-4.467815	0.383983	0.209626
6	0	-4.613508	1.862863	0.590263
1	0	-3.873747	2.486317	0.080372
1	0	-5.612179	2.241154	0.351608
1	0	-4.456491	1.966364	1.667732
6	0	-5.492497	-0.453516	0.971730
1	0	-6.510314	-0.208602	0.649569
1	0	-5.331107	-1.523458	0.827703
1	0	-5.416804	-0.238251	2.041631
6	0	-4.847340	-1.286848	-1.755435
1	0	-5.923403	-1.433401	-1.621368
1	0	-4.612193	-1.437153	-2.812932
1	0	-4.315822	-2.048909	-1.178456
6	0	-5.153288	1.162891	-2.199241

1	0	-5.034089	0.918255	-3.258840
1	0	-6.224952	1.159293	-1.972991
1	0	-4.770153	2.172389	-2.037786
8	0	2.062797	-0.342949	-0.735328
6	0	2.668883	-1.021285	-1.587358
7	0	4.019876	-1.160734	-1.563109
1	0	4.406902	-1.725403	-2.307397
6	0	1.951725	-1.736374	-2.721780
1	0	2.661415	-2.394894	-3.233417
6	0	4.984931	-0.651739	-0.652596
6	0	6.325895	-0.971129	-0.921999
6	0	4.662749	0.123694	0.471302
6	0	7.340079	-0.523931	-0.078000
1	0	6.575657	-1.571874	-1.794026
6	0	5.693565	0.563718	1.307301
1	0	3.633657	0.375540	0.684909
6	0	7.028242	0.248135	1.045173
1	0	8.371723	-0.779772	-0.299373
1	0	5.441613	1.162043	2.178262
1	0	7.815996	0.597725	1.705102
15	0	0.006506	1.457181	1.419698
8	0	-0.559187	1.165417	2.927595
8	0	1.572405	1.871068	1.745492
8	0	-0.638366	2.947626	1.118818
6	0	-0.358263	2.214630	3.915037
6	0	1.770531	2.885540	2.772988
6	0	-0.401146	3.970528	2.128871
6	0	0.413772	3.386929	3.292970
1	0	0.192416	1.771367	4.750910
1	0	-1.347232	2.526948	4.266047
1	0	2.360459	2.430397	3.575368
1	0	2.351272	3.696752	2.321773
1	0	0.131376	4.794657	1.642177
1	0	-1.378966	4.328779	2.466287
1	0	0.576669	4.162735	4.049718
15	0	-0.606357	-1.948562	0.828723
8	0	-1.639787	-3.096545	0.292027
8	0	0.740706	-2.837136	1.119150
8	0	-1.139884	-1.673979	2.335333
6	0	-1.723306	-4.301019	1.112212
6	0	0.570804	-3.939510	2.061975
6	0	-1.418746	-2.857548	3.137165
6	0	-0.917327	-4.112878	2.406906
1	0	-1.338998	-5.133819	0.514377
1	0	-2.784024	-4.468144	1.320016
1	0	0.978413	-4.832381	1.578682
1	0	1.167381	-3.709235	2.950401
1	0	-0.908373	-2.714853	4.093970
1	0	-2.499563	-2.892295	3.308180
1	0	-1.045673	-4.991209	3.049495
45	0	-0.257808	-0.193034	-0.456762

6	0	0.748742	-2.538814	-2.173657
1	0	0.502613	-3.317732	-2.911287
1	0	0.976174	-3.048821	-1.236150
6	0	-0.410365	-1.529742	-2.128860
1	0	-1.378002	-2.025923	-2.068104
6	0	-0.230045	-0.784776	-3.460690
1	0	-0.696723	0.198444	-3.492216
1	0	-0.718350	-1.383235	-4.243961
6	0	1.298183	-0.730091	-3.728376
1	0	1.694628	0.278653	-3.594739
1	0	1.535461	-1.027142	-4.754037
8	0	0.059330	1.742870	-1.738215
6	0	1.329113	2.471564	-1.743079
6	0	-1.016972	2.625636	-2.179656
6	0	0.977121	3.916910	-2.097404
1	0	1.805005	2.351560	-0.769586
1	0	1.968992	2.014189	-2.503242
6	0	-0.313236	3.758484	-2.917106
1	0	-1.699339	2.032147	-2.787217
1	0	-1.544955	2.989259	-1.292077
1	0	1.783032	4.407700	-2.649924
1	0	0.780825	4.499634	-1.191177
1	0	-0.084868	3.466964	-3.948477
1	0	-0.918582	4.668725	-2.947127

Im4

15	0	0.801107	2.419492	0.672352
8	0	0.131956	3.847749	0.238301
8	0	1.321658	2.755941	2.197803
8	0	2.217876	2.449560	-0.152572
6	0	0.967466	5.029618	0.403334
6	0	2.148611	3.950781	2.335640
6	0	3.024336	3.654523	0.001898
6	0	2.337088	4.629191	0.969887
1	0	0.436175	5.710299	1.075860
1	0	1.062471	5.500996	-0.579968
1	0	1.643779	4.613480	3.045484
1	0	3.107136	3.636247	2.760946
1	0	4.004891	3.342394	0.375253
1	0	3.145620	4.095217	-0.992742
1	0	2.958792	5.523544	1.091627
15	0	-1.331464	1.249568	-1.375896
8	0	-1.869385	-0.004702	-2.288285
8	0	-2.666322	2.189355	-1.294367
8	0	-0.408409	2.060174	-2.455397
6	0	-2.530315	0.360731	-3.536971
6	0	-3.271463	2.553798	-2.570317
6	0	-1.050341	2.379333	-3.725460
6	0	-2.505925	1.885890	-3.722844
1	0	-3.555537	-0.019618	-3.487124
1	0	-1.996395	-0.150135	-4.344237

1	0	-4.314959	2.226299	-2.536900
1	0	-3.240627	3.645393	-2.645404
1	0	-0.995910	3.465243	-3.850266
1	0	-0.463900	1.898580	-4.514785
1	0	-2.980148	2.144197	-4.676559
8	0	0.240315	-0.142359	2.474452
6	0	-0.526409	0.178379	3.678233
6	0	1.611492	-0.478074	2.833440
6	0	0.383135	-0.195655	4.861007
1	0	-0.780331	1.241242	3.655194
1	0	-1.442195	-0.416135	3.628262
6	0	1.470794	-1.083670	4.224526
1	0	1.994526	-1.151384	2.064900
1	0	2.207606	0.441192	2.849396
1	0	-0.169457	-0.706823	5.653330
1	0	0.833608	0.703353	5.292966
1	0	1.136874	-2.124477	4.155548
1	0	2.411319	-1.063671	4.781698
45	0	-0.466302	0.631787	0.559159
8	0	-1.944365	-0.960733	0.636422
6	0	-2.118007	-2.127201	0.220237
7	0	-3.366764	-2.634177	0.084046
6	0	-0.987440	-3.090689	-0.090198
1	0	-3.404988	-3.595856	-0.226992
6	0	-4.640613	-2.047114	0.317647
1	0	-1.400031	-3.958423	-0.622638
6	0	0.171781	-2.514331	-0.924761
6	0	-0.275139	-3.585800	1.195590
6	0	-5.754367	-2.876216	0.105056
6	0	-4.827400	-0.720113	0.732459
1	0	-0.089500	-2.384421	-1.978342
1	0	0.432964	-1.521137	-0.532232
6	0	1.333057	-3.531036	-0.713593
6	0	1.076393	-4.155197	0.698105
1	0	-0.115137	-2.724565	1.852075
1	0	-0.871361	-4.318786	1.748828
6	0	-7.044092	-2.386719	0.300187
1	0	-5.611113	-3.906691	-0.213249
6	0	-6.128093	-0.244583	0.924221
1	0	-3.977099	-0.076229	0.901285
1	0	1.228160	-4.314909	-1.474030
5	0	2.740267	-2.850201	-0.913616
1	0	1.876262	-3.917748	1.405767
1	0	1.034243	-5.246762	0.625892
6	0	-7.238150	-1.064584	0.711948
1	0	-7.894754	-3.040220	0.132885
1	0	-6.266678	0.782926	1.247709
8	0	3.395819	-2.151638	0.076045
8	0	3.420542	-2.853389	-2.103183
1	0	-8.241744	-0.681603	0.867798
6	0	4.730158	-1.812115	-0.424093

6	0	4.539639	-1.919912	-1.990444
6	0	5.692836	-2.858297	0.151802
6	0	5.096711	-0.419818	0.086418
6	0	4.085073	-0.608621	-2.646551
6	0	5.730426	-2.499918	-2.750616
1	0	6.729206	-2.646959	-0.128401
1	0	5.624250	-2.842263	1.243490
1	0	5.442090	-3.867270	-0.188074
1	0	5.201551	-0.445719	1.175730
1	0	6.054394	-0.094634	-0.334249
1	0	4.331013	0.316237	-0.167276
1	0	3.229211	-0.167014	-2.127880
1	0	4.894281	0.128161	-2.667796
1	0	3.787841	-0.818259	-3.678122
1	0	6.611707	-1.858667	-2.641628
1	0	5.984001	-3.503773	-2.405289
1	0	5.487902	-2.562028	-3.815424

Im5

5	0	0.679248	-0.712387	1.236237
8	0	-0.252403	-1.511251	1.836219
8	0	1.626061	-0.218309	2.086538
6	0	0.205367	-1.753205	3.216699
6	0	1.198740	-0.545900	3.456425
6	0	0.520863	0.711586	4.012744
1	0	-0.358486	0.990240	3.425536
1	0	0.218171	0.570661	5.054766
1	0	1.232567	1.541221	3.972304
6	0	2.441959	-0.883222	4.274631
1	0	2.164725	-1.194815	5.287306
1	0	3.029002	-1.679385	3.813337
1	0	3.076011	0.004193	4.357708
6	0	0.891601	-3.123778	3.216555
1	0	1.221231	-3.402018	4.222062
1	0	0.179723	-3.879360	2.872435
1	0	1.758696	-3.143134	2.550092
6	0	-1.020175	-1.773999	4.125346
1	0	-1.658361	-2.622064	3.861192
1	0	-0.720870	-1.890870	5.172427
1	0	-1.611526	-0.861729	4.030453
8	0	-1.641687	-0.677514	-0.829840
6	0	-2.237073	-1.463573	-1.603284
7	0	-3.584866	-1.533480	-1.629472
1	0	-3.967103	-2.178924	-2.308766
6	0	-1.499266	-2.426166	-2.519442
1	0	-2.110103	-2.622059	-3.407700
6	0	-4.564221	-0.853903	-0.850513
6	0	-5.901283	-1.031622	-1.238947
6	0	-4.255297	-0.062404	0.264817
6	0	-6.928072	-0.424543	-0.518736
1	0	-6.139239	-1.646047	-2.104577

6	0	-5.298063	0.538039	0.976513
1	0	-3.228387	0.078617	0.569931
6	0	-6.630565	0.365380	0.595763
1	0	-7.958030	-0.571259	-0.828782
1	0	-5.058146	1.141838	1.847038
1	0	-7.428745	0.835877	1.161230
15	0	-0.188466	2.011667	-0.233377
8	0	0.867532	3.221219	0.082183
8	0	-1.013267	2.625172	-1.515030
8	0	-1.280771	2.207133	0.980756
6	0	0.287439	4.548884	0.246238
6	0	-1.569620	3.961721	-1.339849
6	0	-1.839878	3.547552	1.123131
6	0	-1.238075	4.487741	0.066282
1	0	0.753516	5.199867	-0.500010
1	0	0.559752	4.899850	1.246577
1	0	-1.138864	4.598913	-2.118559
1	0	-2.650214	3.886029	-1.496118
1	0	-2.925104	3.460683	1.009550
1	0	-1.610782	3.888364	2.137787
1	0	-1.660637	5.491345	0.189668
15	0	2.704966	-0.032438	-0.838801
8	0	3.646114	-1.248439	-0.292367
8	0	3.192687	0.083071	-2.398430
8	0	3.389330	1.279737	-0.172306
6	0	5.079381	-1.082776	-0.518740
6	0	4.630423	0.265146	-2.591454
6	0	4.830325	1.407475	-0.362780
6	0	5.350163	0.251437	-1.231947
1	0	5.411556	-1.935627	-1.118729
1	0	5.566265	-1.121054	0.460203
1	0	4.972654	-0.549554	-3.236583
1	0	4.770264	1.217497	-3.111816
1	0	5.003918	2.378777	-0.835335
1	0	5.289483	1.403607	0.630464
1	0	6.428349	0.368390	-1.389483
45	0	0.502106	-0.290773	-0.737770
1	0	-0.096454	-0.854903	-3.204398
6	0	0.751070	-2.188039	-1.612850
1	0	1.792805	-2.397800	-1.852144
6	0	0.075744	-3.384519	-0.897253
1	0	-0.219815	-3.134054	0.123095
1	0	0.759624	-4.237624	-0.829315
6	0	-1.171375	-3.736442	-1.746586
1	0	-2.009337	-4.102219	-1.144698
1	0	-0.938812	-4.509558	-2.487144
6	0	-0.093872	-1.907275	-2.876502
1	0	0.290055	-2.477345	-3.732909

Im6

5	0	-3.513299	1.349063	-0.352507

8	0	-4.654086	2.057151	-0.092089
8	0	-3.200585	0.436800	0.621411
6	0	-5.304067	1.446521	1.071481
6	0	-4.107256	0.666044	1.752888
6	0	-3.326484	1.504218	2.772362
1	0	-3.030886	2.471982	2.356607
1	0	-3.916259	1.684006	3.676029
1	0	-2.419259	0.963806	3.057134
6	0	-4.473358	-0.687074	2.357308
1	0	-5.186204	-0.562791	3.179335
1	0	-4.912664	-1.357265	1.615839
1	0	-3.573060	-1.162446	2.757678
6	0	-6.405088	0.530254	0.522274
1	0	-6.984469	0.071387	1.329070
1	0	-7.086309	1.125305	-0.092225
1	0	-5.993214	-0.266438	-0.104760
6	0	-5.919411	2.557810	1.918280
1	0	-6.708752	3.056467	1.348653
1	0	-6.368207	2.147144	2.829001
1	0	-5.181522	3.310670	2.201576
8	0	1.364727	1.421386	-0.487261
6	0	0.840004	2.294106	-1.225381
7	0	1.230532	3.577525	-1.157338
1	0	0.754494	4.207793	-1.787656
6	0	-0.209487	1.890410	-2.260947
1	0	0.379694	1.394362	-3.043635
6	0	2.208166	4.206084	-0.331906
6	0	2.353095	5.592583	-0.497320
6	0	2.997452	3.521052	0.602783
6	0	3.280324	6.296958	0.267338
1	0	1.740049	6.121371	-1.224167
6	0	3.921068	4.244909	1.362760
1	0	2.893227	2.453405	0.732914
6	0	4.069820	5.624116	1.204703
1	0	3.383149	7.368879	0.130367
1	0	4.529315	3.715865	2.090483
1	0	4.791632	6.170139	1.803856
15	0	2.532471	-1.373347	0.311938
8	0	2.506213	-2.582209	1.406410
8	0	3.568453	-1.942590	-0.811710
8	0	3.441440	-0.246329	1.069244
6	0	3.812436	-3.007271	1.904459
6	0	4.852490	-2.419837	-0.303547
6	0	4.749597	-0.708038	1.530306
6	0	4.926617	-2.202646	1.216225
1	0	3.901773	-4.077532	1.695930
1	0	3.810600	-2.850809	2.987416
1	0	4.930744	-3.479481	-0.565294
1	0	5.632088	-1.861553	-0.830132
1	0	5.504697	-0.099372	1.023614
1	0	4.793942	-0.515863	2.606429

1	0	5.901438	-2.538955	1.587431
15	0	-0.307914	-2.583871	-0.465743
8	0	-1.005753	-3.140069	0.899874
8	0	-1.558795	-2.629103	-1.525737
8	0	0.578569	-3.869121	-0.946406
6	0	-1.681650	-4.428772	0.786821
6	0	-2.279473	-3.897785	-1.593950
6	0	-0.151113	-5.126936	-1.073821
6	0	-1.619157	-4.929336	-0.664860
1	0	-2.713567	-4.279093	1.117916
1	0	-1.181975	-5.119688	1.472928
1	0	-3.315585	-3.700292	-1.302297
1	0	-2.255774	-4.223292	-2.638267
1	0	-0.061772	-5.448614	-2.116004
1	0	0.349625	-5.855767	-0.429401
1	0	-2.151398	-5.883956	-0.745783
45	0	0.626981	-0.580706	-0.431506
6	0	-1.240619	0.872701	-1.660505
1	0	-1.284518	-0.042104	-2.255179
1	0	-1.014867	0.613774	-0.596542
6	0	-2.634188	1.585300	-1.643315
1	0	-3.207027	1.214133	-2.505371
6	0	-2.308765	3.075747	-1.921886
1	0	-2.039170	3.598661	-0.994371
1	0	-3.158931	3.608853	-2.354962
6	0	-1.097834	3.004753	-2.862227
1	0	-0.596989	3.966992	-3.020343
1	0	-1.424006	2.679785	-3.856892

Im7

5	0	-2.661705	-2.521923	0.105246
8	0	-3.778701	-1.859038	-0.333074
8	0	-2.708631	-2.852374	1.432653
6	0	-4.779437	-1.929236	0.737153
6	0	-3.889137	-2.207910	2.014207
6	0	-3.391814	-0.934360	2.710557
1	0	-2.934109	-0.235447	2.004834
1	0	-4.207078	-0.420753	3.229723
1	0	-2.637717	-1.212337	3.452522
6	0	-4.503624	-3.160918	3.036529
1	0	-5.424278	-2.740146	3.454964
1	0	-4.732597	-4.134684	2.600009
1	0	-3.799895	-3.316583	3.859351
6	0	-5.721263	-3.084925	0.376553
1	0	-6.542470	-3.172398	1.094282
1	0	-6.149534	-2.898225	-0.612414
1	0	-5.191881	-4.041547	0.340786
6	0	-5.549400	-0.611359	0.764052
1	0	-6.114479	-0.499075	-0.166305
1	0	-6.262348	-0.596525	1.595134
1	0	-4.875815	0.241727	0.865375

8	0	1.992659	-0.975724	-0.654826
6	0	2.138265	-2.201354	-0.876868
7	0	3.357932	-2.775687	-0.811171
1	0	3.373401	-3.773669	-0.975022
6	0	0.979604	-3.097850	-1.257865
1	0	1.362931	-4.099884	-1.474137
6	0	4.631197	-2.205237	-0.520607
6	0	5.660793	-3.103235	-0.201261
6	0	4.892552	-0.829685	-0.586153
6	0	6.947499	-2.632291	0.054020
1	0	5.455618	-4.170194	-0.150935
6	0	6.188864	-0.374074	-0.330250
1	0	4.105169	-0.132689	-0.835309
6	0	7.217912	-1.262238	-0.009035
1	0	7.736051	-3.336756	0.299620
1	0	6.393788	0.690533	-0.397142
1	0	8.220584	-0.893655	0.183379
15	0	-1.296574	1.839960	-0.995277
8	0	-2.463060	2.060051	0.127257
8	0	-0.832964	3.371694	-1.314858
8	0	-2.175499	1.471140	-2.324927
6	0	-3.491486	3.038092	-0.219285
6	0	-1.901557	4.287632	-1.702454
6	0	-3.264312	2.394507	-2.636382
6	0	-3.257796	3.567495	-1.642800
1	0	-3.441031	3.840983	0.522767
1	0	-4.456456	2.530089	-0.133515
1	0	-1.864862	5.133784	-1.009816
1	0	-1.675321	4.641331	-2.713029
1	0	-3.107946	2.735801	-3.663815
1	0	-4.197597	1.825876	-2.583541
1	0	-4.056162	4.270684	-1.905920
15	0	1.378945	1.622115	0.750472
8	0	0.589877	2.826526	1.514669
8	0	1.985726	0.766044	1.998811
8	0	2.706351	2.383344	0.180586
6	0	1.368164	3.541422	2.524736
6	0	2.808296	1.525260	2.938880
6	0	3.443390	3.179136	1.160988
6	0	2.811598	3.012987	2.551772
1	0	0.865257	3.392650	3.485126
1	0	1.332916	4.602097	2.259696
1	0	2.379670	1.367350	3.932751
1	0	3.815248	1.097848	2.909657
1	0	4.478528	2.826186	1.145200
1	0	3.412982	4.219631	0.823535
1	0	3.392612	3.580557	3.287594
45	0	0.301577	0.348786	-0.679618
6	0	-0.104361	-3.167022	-0.128820
1	0	-0.069723	-4.118428	0.407454
1	0	0.072057	-2.377650	0.611006

6	0	-1.458244	-2.926556	-0.834892
1	0	-1.762580	-3.869757	-1.321216
6	0	-1.085384	-1.969492	-1.979228
1	0	-0.968788	-0.929128	-1.572058
1	0	-1.857050	-1.849633	-2.743700
6	0	0.236166	-2.535432	-2.516213
1	0	0.831799	-1.812314	-3.080756
1	0	0.012599	-3.366193	-3.193594

Im8

45	0	-0.040350	-0.714661	-0.703299
8	0	0.375991	1.504217	-0.391742
6	0	0.419341	2.358070	-1.297066
7	0	0.640691	3.669597	-1.041402
1	0	0.645693	4.276096	-1.850410
6	0	0.235995	1.983078	-2.762043
1	0	0.349282	2.872846	-3.387551
6	0	-1.149383	1.312245	-2.993503
1	0	-1.931274	1.683969	-2.329476
1	0	-1.472382	1.494425	-4.028043
6	0	1.252489	0.878385	-3.172911
1	0	2.203964	0.946857	-2.640848
1	0	1.471125	0.963876	-4.246597
6	0	0.492913	-0.418488	-2.946879
6	0	-0.866520	-0.173011	-2.846779
1	0	-1.616947	-0.923144	-3.068185
1	0	0.909423	-1.378597	-3.230243
6	0	0.858741	4.340269	0.194129
6	0	0.980351	5.737538	0.132119
6	0	0.965503	3.680571	1.426986
6	0	1.207174	6.475239	1.292035
1	0	0.896353	6.248649	-0.824654
6	0	1.193869	4.436457	2.580489
1	0	0.875056	2.605083	1.478870
6	0	1.314905	5.826389	2.525761
1	0	1.298309	7.555232	1.229721
1	0	1.278846	3.924160	3.534435
1	0	1.491583	6.398516	3.431078
15	0	-0.263408	-1.202458	1.508055
8	0	0.004870	-2.762569	1.885549
8	0	0.810022	-0.408380	2.450908
8	0	-1.662343	-0.904732	2.298283
6	0	0.014641	-3.076741	3.309655
6	0	0.776650	-0.749704	3.869282
6	0	-1.673058	-1.264622	3.714911
6	0	-0.299684	-1.815287	4.129609
1	0	1.006757	-3.473251	3.546200
1	0	-0.733053	-3.859091	3.469865
1	0	1.774223	-1.111920	4.135873
1	0	0.570242	0.172839	4.420678
1	0	-1.931110	-0.359371	4.272499

1	0	-2.462297	-2.009997	3.852809
1	0	-0.314706	-2.066471	5.196180
15	0	2.363099	-1.330455	-0.648994
8	0	2.798513	-2.367962	-1.849374
8	0	3.490080	-0.145098	-0.841672
8	0	2.937965	-2.109586	0.673968
6	0	4.199078	-2.774374	-1.873640
6	0	4.883303	-0.581100	-0.853234
6	0	4.330651	-2.536242	0.618338
6	0	4.960550	-2.109956	-0.715993
1	0	4.607079	-2.478797	-2.845454
1	0	4.221174	-3.865597	-1.794686
1	0	5.321703	-0.240656	-1.796667
1	0	5.388298	-0.077233	-0.023177
1	0	4.843965	-2.076057	1.468515
1	0	4.342364	-3.624239	0.737753
1	0	6.009792	-2.425133	-0.741425
5	0	-2.149101	-0.594788	-0.630599
8	0	-2.843480	0.576567	-0.479710
8	0	-2.962178	-1.690107	-0.747993
6	0	-4.271105	0.260249	-0.322035
6	0	-4.352377	-1.234426	-0.849588
6	0	-5.071700	1.277752	-1.134486
6	0	-4.600796	0.416935	1.165836
6	0	-5.218855	-2.172051	-0.010352
6	0	-4.744711	-1.355976	-2.327658
1	0	-6.143599	1.061267	-1.076728
1	0	-4.909749	2.278828	-0.724086
1	0	-4.780274	1.290289	-2.186733
1	0	-4.370308	1.441117	1.473373
1	0	-5.662705	0.232852	1.355127
1	0	-4.005570	-0.260982	1.779018
1	0	-4.882158	-2.215865	1.026874
1	0	-6.266173	-1.852236	-0.025307
1	0	-5.168156	-3.182556	-0.425837
1	0	-5.792899	-1.086216	-2.487820
1	0	-4.128495	-0.719828	-2.969689
1	0	-4.606542	-2.393092	-2.646111
1	0	-0.369127	-2.192353	-0.957405

Im9

45	0	0.220460	-0.848890	-0.426050
8	0	-0.261418	1.330959	-0.806967
6	0	-0.496200	1.895253	-1.894499
7	0	-0.694646	3.233682	-1.973355
1	0	-0.856083	3.591578	-2.905402
6	0	-0.625385	1.130117	-3.202027
1	0	-0.570419	1.836894	-4.037086
6	0	-1.966927	0.334772	-3.245288
1	0	-2.739351	0.817625	-2.636755
1	0	-2.344265	0.323483	-4.271519

6	0	0.444291	0.029560	-3.326695
1	0	1.442028	0.376250	-3.047577
1	0	0.495227	-0.268996	-4.384330
6	0	-0.099438	-1.148780	-2.503085
1	0	0.359419	-2.096223	-2.783774
6	0	-0.712818	4.225834	-0.953986
6	0	-0.805038	5.559545	-1.383054
6	0	-0.664767	3.931829	0.416353
6	0	-0.850655	6.596082	-0.453139
1	0	-0.841669	5.786757	-2.446352
6	0	-0.712531	4.984499	1.335051
1	0	-0.593890	2.908229	0.755489
6	0	-0.804517	6.312863	0.915167
1	0	-0.922774	7.622515	-0.799301
1	0	-0.681350	4.755430	2.396391
1	0	-0.841792	7.118011	1.642201
15	0	0.522485	-0.330122	1.997010
8	0	0.215307	-1.525229	3.086185
8	0	2.019035	0.158016	2.464171
8	0	-0.402549	0.891206	2.603968
6	0	0.430670	-1.191528	4.489437
6	0	2.179820	0.498684	3.870916
6	0	-0.226192	1.187011	4.020313
6	0	0.857850	0.278805	4.622010
1	0	1.199943	-1.869789	4.871905
1	0	-0.508930	-1.385345	5.016663
1	0	2.976377	-0.137675	4.269702
1	0	2.499662	1.544580	3.920006
1	0	0.050782	2.243052	4.099013
1	0	-1.193832	1.036253	4.510362
1	0	0.993523	0.524873	5.681220
15	0	2.382251	-1.020221	-0.788200
8	0	2.845738	-1.843965	-2.119777
8	0	3.203996	0.378707	-0.960166
8	0	3.214338	-1.790769	0.378827
6	0	4.289926	-1.975827	-2.301444
6	0	4.642596	0.243729	-1.180802
6	0	4.658370	-1.865220	0.178646
6	0	5.035035	-1.241733	-1.174698
1	0	4.528157	-1.555089	-3.282869
1	0	4.517517	-3.045921	-2.304919
1	0	4.869161	0.718046	-2.140603
1	0	5.141452	0.797402	-0.380028
1	0	5.128788	-1.333731	1.011587
1	0	4.931136	-2.923468	0.225908
1	0	6.115629	-1.334788	-1.331652
5	0	-2.494877	-1.548729	-1.551818
8	0	-3.699095	-2.171453	-1.572732
8	0	-2.061029	-1.248494	-0.260138
6	0	-4.259912	-2.139537	-0.220737
6	0	-2.977253	-1.954732	0.685566

6	0	-5.021470	-3.441489	0.012933
6	0	-5.221239	-0.945204	-0.177426
6	0	-3.205862	-1.083668	1.913895
6	0	-2.299790	-3.271838	1.067237
1	0	-5.401431	-3.489528	1.038776
1	0	-5.877086	-3.487294	-0.666371
1	0	-4.397010	-4.317259	-0.171487
1	0	-5.963241	-1.063622	-0.971621
1	0	-5.750064	-0.890441	0.778303
1	0	-4.699487	0.003045	-0.337805
1	0	-3.493335	-0.065931	1.645880
1	0	-3.999051	-1.520510	2.530132
1	0	-2.300176	-1.038632	2.519583
1	0	-2.918565	-3.829515	1.776193
1	0	-2.122597	-3.905208	0.193556
1	0	-1.341100	-3.064903	1.548455
1	0	0.419363	-2.361706	-0.212851
6	0	-1.625119	-1.127996	-2.778048
1	0	-1.840756	-1.813401	-3.608916

Im10

45	0	0.846203	-0.181943	0.568149
8	0	-1.224584	-0.694601	0.881191
6	0	-2.031142	-0.438729	1.805971
7	0	-3.246368	-1.027563	1.849001
1	0	-3.821113	-0.758476	2.637451
6	0	-1.775823	0.566451	2.926431
1	0	-2.202627	0.146274	3.844580
6	0	-2.428209	1.947913	2.606059
1	0	-3.348674	1.857493	2.022745
1	0	-2.693474	2.422812	3.555818
6	0	-0.293504	0.924114	3.127796
1	0	0.377785	0.058488	3.088220
1	0	-0.188593	1.359070	4.128197
6	0	0.008824	2.020064	2.082883
1	0	0.830552	2.668810	2.389913
6	0	-3.886049	-1.928329	0.951983
6	0	-5.148992	-2.399199	1.345581
6	0	-3.333628	-2.336473	-0.270074
6	0	-5.861997	-3.269423	0.524068
1	0	-5.575498	-2.083588	2.295325
6	0	-4.065099	-3.207568	-1.083393
1	0	-2.358188	-1.988392	-0.577361
6	0	-5.322681	-3.677637	-0.699477
1	0	-6.837846	-3.624573	0.840317
1	0	-3.642132	-3.513589	-2.036036
1	0	-5.877731	-4.351577	-1.344362
15	0	1.209795	-2.097169	-0.439970
8	0	-0.027677	-2.559064	-1.404262
8	0	2.489507	-2.260157	-1.436879
8	0	1.370379	-3.388158	0.544973

6	0	0.141725	-3.852713	-2.063599
6	0	2.637195	-3.573071	-2.060693
6	0	1.495648	-4.683282	-0.120294
6	0	1.476187	-4.490483	-1.644442
1	0	0.103127	-3.671836	-3.142157
1	0	-0.709072	-4.475399	-1.771035
1	0	2.655662	-3.410691	-3.142352
1	0	3.602641	-3.976486	-1.740383
1	0	2.435665	-5.127949	0.219452
1	0	0.660959	-5.303720	0.219621
1	0	1.585513	-5.462796	-2.138209
15	0	2.944738	0.456870	0.334234
8	0	3.271582	1.760482	1.271980
8	0	4.125902	-0.576087	0.785200
8	0	3.458907	0.959283	-1.129050
6	0	4.634383	2.278981	1.172063
6	0	5.484107	-0.043893	0.732156
6	0	4.837208	1.438339	-1.185813
6	0	5.463034	1.404044	0.217402
1	0	5.051610	2.277730	2.183442
1	0	4.563858	3.310408	0.813361
1	0	5.895279	-0.106942	1.744284
1	0	6.060135	-0.697008	0.069697
1	0	5.377414	0.791438	-1.883918
1	0	4.805723	2.454558	-1.589698
1	0	6.487996	1.789185	0.169965
5	0	-1.661425	3.082463	0.341962
8	0	-2.929356	3.113027	-0.172215
8	0	-0.688455	3.352156	-0.583313
6	0	-2.817768	3.241406	-1.629793
6	0	-1.353653	3.816106	-1.805692
6	0	-3.937151	4.156297	-2.120018
6	0	-2.997493	1.830619	-2.203975
6	0	-0.583897	3.272663	-3.007017
6	0	-1.287363	5.348112	-1.782552
1	0	-3.856323	4.322231	-3.199568
1	0	-4.905504	3.687291	-1.922857
1	0	-3.922924	5.124568	-1.616450
1	0	-3.967935	1.439235	-1.885657
1	0	-2.975558	1.840165	-3.297893
1	0	-2.221814	1.146477	-1.847561
1	0	-0.479998	2.186810	-2.965691
1	0	-1.085670	3.542752	-3.942262
1	0	0.419532	3.707917	-3.025017
1	0	-1.715951	5.780016	-2.691755
1	0	-1.817153	5.763750	-0.920385
1	0	-0.240063	5.656693	-1.718033
1	0	0.348537	1.648867	1.078360
6	0	-1.337323	2.777148	1.860379
1	0	-1.252434	3.758740	2.347762

Im11

5	0	0.530195	-0.343069	1.089618
8	0	-0.722732	-0.639482	1.527440
8	0	1.464909	-0.201649	2.068471
6	0	-0.622671	-0.907143	2.980271
6	0	0.747176	-0.207437	3.358588
6	0	0.597863	1.257797	3.780015
1	0	0.022980	1.832527	3.049811
1	0	0.110946	1.338540	4.756423
1	0	1.593318	1.704597	3.856694
6	0	1.602656	-0.965218	4.369647
1	0	1.084141	-1.042535	5.331145
1	0	1.849255	-1.971015	4.024803
1	0	2.537513	-0.422146	4.534926
6	0	-0.601283	-2.430645	3.139490
1	0	-0.569637	-2.715913	4.195123
1	0	-1.513344	-2.849602	2.705436
1	0	0.257898	-2.880350	2.633509
6	0	-1.858883	-0.316835	3.650619
1	0	-2.752555	-0.844079	3.305540
1	0	-1.797211	-0.433675	4.737908
1	0	-1.980799	0.742012	3.417389
8	0	-3.172008	0.630635	-0.974191
6	0	-3.454891	-0.522044	-1.292979
7	0	-4.704507	-1.068609	-1.194755
1	0	-4.794657	-2.026041	-1.508098
6	0	-2.389729	-1.489944	-1.827092
1	0	-2.770009	-1.980099	-2.734058
6	0	-5.906622	-0.496490	-0.703301
6	0	-7.049227	-1.313234	-0.716003
6	0	-5.994011	0.817055	-0.218410
6	0	-8.268240	-0.826086	-0.248361
1	0	-6.983966	-2.331779	-1.093427
6	0	-7.224444	1.290214	0.247040
1	0	-5.116538	1.448014	-0.211758
6	0	-8.362861	0.481510	0.237656
1	0	-9.142682	-1.469634	-0.265574
1	0	-7.286830	2.308729	0.619346
1	0	-9.311654	0.863387	0.601283
6	0	0.045083	-1.729440	-1.941007
1	0	0.739316	-1.913869	-2.764089
45	0	0.858245	-0.097708	-0.904604
1	0	-1.048470	0.162972	-1.512885
6	0	-1.082703	-0.767283	-2.209872
1	0	-1.088789	-0.315953	-3.205204
15	0	1.264621	2.208292	-0.458271
8	0	0.922654	3.038111	-1.830466
8	0	0.382653	3.019011	0.655555
8	0	2.779895	2.721457	-0.129464
6	0	1.136862	4.482426	-1.770390
6	0	0.570133	4.468340	0.678091

6	0	2.952221	4.170635	-0.060950
6	0	1.621698	4.879000	-0.366063
1	0	0.183477	4.958209	-2.018004
1	0	1.874927	4.734073	-2.538033
1	0	-0.403605	4.922166	0.471118
1	0	0.884370	4.736286	1.691313
1	0	3.312030	4.406120	0.945325
1	0	3.724839	4.435705	-0.788848
1	0	1.769592	5.964048	-0.325102
15	0	2.817219	-1.126872	-0.640212
8	0	2.816393	-2.582065	0.100950
8	0	3.470743	-1.495899	-2.094082
8	0	4.034109	-0.346158	0.095620
6	0	4.102841	-3.280052	0.102278
6	0	4.781014	-2.147083	-2.039294
6	0	5.297547	-1.076026	0.172545
6	0	5.175151	-2.412098	-0.576420
1	0	3.955211	-4.227279	-0.425108
1	0	4.354104	-3.484524	1.146954
1	0	4.695683	-3.076163	-2.610022
1	0	5.495580	-1.483900	-2.535721
1	0	6.062240	-0.431502	-0.270048
1	0	5.521606	-1.224981	1.233085
1	0	6.137115	-2.936272	-0.548677
6	0	-1.941953	-2.573027	-0.808149
1	0	-2.631772	-3.421435	-0.769207
1	0	-1.890878	-2.126630	0.186818
6	0	-0.532125	-2.983488	-1.281733
1	0	0.094631	-3.373490	-0.475108
1	0	-0.601951	-3.775469	-2.041333

Im12

5	0	0.036612	-0.181715	0.959665
8	0	-0.946932	-1.083385	1.240493
8	0	0.498032	0.506669	2.041663
6	0	-1.054601	-1.161866	2.714424
6	0	-0.409762	0.209327	3.165043
6	0	-1.410995	1.367286	3.233910
1	0	-1.996704	1.453350	2.314807
1	0	-2.097985	1.247628	4.076880
1	0	-0.861188	2.302109	3.372470
6	0	0.421435	0.142714	4.442222
1	0	-0.205142	-0.139787	5.294894
1	0	1.240167	-0.574047	4.357536
1	0	0.850774	1.126522	4.651566
6	0	-0.250659	-2.393508	3.142691
1	0	-0.314744	-2.550673	4.223471
1	0	-0.662152	-3.277761	2.647446
1	0	0.802289	-2.306752	2.861307
6	0	-2.527371	-1.329878	3.073396
1	0	-2.887985	-2.298955	2.716262

1	0	-2.660032	-1.305500	4.160266
1	0	-3.147719	-0.550230	2.628328
8	0	-2.768560	0.603396	-1.742484
6	0	-2.999631	-0.601996	-1.694407
7	0	-4.174993	-1.142635	-1.249225
1	0	-4.229123	-2.152340	-1.252446
6	0	-1.990244	-1.646524	-2.196242
1	0	-2.399793	-2.006108	-3.155852
6	0	-5.345359	-0.494287	-0.777785
6	0	-6.399782	-1.319856	-0.353098
6	0	-5.490591	0.900589	-0.729244
6	0	-7.588304	-0.761397	0.113451
1	0	-6.291378	-2.401885	-0.393604
6	0	-6.689320	1.444628	-0.258255
1	0	-4.682482	1.537949	-1.059099
6	0	-7.739997	0.627719	0.164532
1	0	-8.395228	-1.413530	0.434017
1	0	-6.797520	2.525040	-0.228098
1	0	-8.665904	1.064831	0.524925
6	0	0.363900	-2.024798	-2.195116
1	0	1.346046	-2.051395	-2.657195
45	0	0.783375	0.024012	-0.917284
1	0	-0.610167	0.717456	-1.175001
6	0	-0.612555	-1.117877	-2.534620
1	0	-0.490028	-0.321854	-3.263702
15	0	1.254174	2.165392	-0.428554
8	0	1.612997	2.894805	-1.845287
8	0	0.075077	3.113974	0.164899
8	0	2.533808	2.561294	0.490772
6	0	1.937742	4.318363	-1.748288
6	0	0.394410	4.539298	0.224584
6	0	2.815060	3.992461	0.584830
6	0	1.824450	4.782236	-0.286145
1	0	1.235597	4.849951	-2.396839
1	0	2.953251	4.445466	-2.134752
1	0	-0.348937	5.057921	-0.387822
1	0	0.282337	4.849881	1.267533
1	0	2.732802	4.268493	1.640388
1	0	3.848164	4.135496	0.254903
1	0	2.055991	5.851637	-0.224882
15	0	2.881162	-1.082869	-0.368679
8	0	2.751036	-2.373922	0.638777
8	0	3.660923	-1.755938	-1.651224
8	0	4.082236	-0.230224	0.333687
6	0	3.991935	-3.100595	0.900406
6	0	4.911698	-2.447008	-1.346875
6	0	5.298294	-0.972710	0.648208
6	0	5.165199	-2.426975	0.169658
1	0	3.842666	-4.129613	0.559038
1	0	4.142722	-3.100711	1.984073
1	0	4.814100	-3.468931	-1.725579

1	0	5.709186	-1.936507	-1.895271
1	0	6.125703	-0.458747	0.149985
1	0	5.441846	-0.915754	1.731635
1	0	6.090506	-2.970677	0.391039
6	0	-1.709171	-2.863998	-1.263240
1	0	-2.381694	-3.703403	-1.463215
1	0	-1.833151	-2.557392	-0.224654
6	0	-0.228335	-3.247229	-1.521236
1	0	0.297954	-3.540035	-0.608195
1	0	-0.146723	-4.090543	-2.221207

Im13

5	0	2.146957	0.125784	-0.792672
8	0	2.536411	0.089932	-2.108368
8	0	3.124608	0.555224	0.058320
6	0	3.836758	0.776882	-2.199071
6	0	4.370512	0.665555	-0.715152
6	0	5.170082	-0.614076	-0.443996
1	0	4.626161	-1.505981	-0.766844
1	0	6.139342	-0.591959	-0.951028
1	0	5.350173	-0.696795	0.631658
6	0	5.137208	1.884544	-0.209847
1	0	6.051119	2.035933	-0.794185
1	0	4.535202	2.793449	-0.262061
1	0	5.426182	1.727853	0.833414
6	0	3.539775	2.213599	-2.642599
1	0	4.461803	2.787652	-2.775236
1	0	3.015425	2.187143	-3.602263
1	0	2.901030	2.732674	-1.922726
6	0	4.681315	0.059823	-3.248385
1	0	4.215137	0.168747	-4.231893
1	0	5.683138	0.499229	-3.301382
1	0	4.779776	-1.006252	-3.035175
8	0	-2.161429	-0.492950	-0.512198
6	0	-2.731098	-0.802329	-1.575173
7	0	-4.068144	-0.679629	-1.755064
1	0	-4.417295	-0.985347	-2.654240
6	0	-1.953434	-1.401522	-2.745076
1	0	-2.428919	-1.127882	-3.692857
6	0	-5.076552	-0.255668	-0.843797
6	0	-6.407314	-0.474136	-1.232303
6	0	-4.793869	0.369599	0.378876
6	0	-7.454197	-0.075174	-0.403178
1	0	-6.624518	-0.959485	-2.181440
6	0	-5.855988	0.759546	1.199722
1	0	-3.770056	0.550641	0.674122
6	0	-7.182697	0.542331	0.821310
1	0	-8.479412	-0.250595	-0.714251
1	0	-5.636285	1.240485	2.148531
1	0	-7.996271	0.850647	1.470358
15	0	0.945937	-1.538830	1.276002

8	0	1.454307	-0.782464	2.618938
8	0	-0.200112	-2.547127	1.862055
8	0	2.168189	-2.579407	0.967295
6	0	1.908844	-1.649666	3.701170
6	0	0.209541	-3.361848	3.004989
6	0	2.543113	-3.452199	2.078232
6	0	1.696096	-3.122331	3.317422
1	0	1.333220	-1.375694	4.590037
1	0	2.965863	-1.425322	3.874098
1	0	-0.429744	-3.083860	3.848434
1	0	0.016624	-4.404873	2.737238
1	0	2.389331	-4.483534	1.746071
1	0	3.608736	-3.290752	2.265713
1	0	2.001936	-3.766006	4.150019
15	0	-0.070853	1.880610	0.570407
8	0	0.520280	3.104846	-0.356969
8	0	-1.628906	2.360190	0.771889
8	0	0.568666	2.231305	2.032142
6	0	0.289709	4.455158	0.145181
6	0	-1.816386	3.710202	1.291891
6	0	0.379211	3.597978	2.501996
6	0	-0.455086	4.396862	1.488022
1	0	-0.289562	4.990853	-0.613495
1	0	1.268512	4.933328	0.251022
1	0	-2.438494	4.249277	0.570778
1	0	-2.359969	3.623857	2.238130
1	0	-0.120520	3.537813	3.473771
1	0	1.373364	4.035421	2.637984
1	0	-0.610585	5.414631	1.863396
45	0	0.197694	-0.318734	-0.393839
6	0	-0.470093	-0.970597	-2.691789
1	0	-0.377140	0.115392	-2.375890
6	0	0.203488	-1.936625	-1.727755
1	0	1.224793	-2.208082	-1.985361
6	0	-0.743898	-3.127899	-1.506210
1	0	-1.175359	-3.129517	-0.501050
1	0	-0.219530	-4.080751	-1.629732
6	0	-1.855655	-2.943799	-2.565400
1	0	-2.806156	-3.405462	-2.279238
1	0	-1.551673	-3.380665	-3.523480
1	0	0.011925	-0.953049	-3.674848

Im14

5	0	1.992417	0.387590	-1.025589
8	0	2.528701	-0.131411	-2.179638
8	0	2.844300	1.231300	-0.368137
6	0	3.786241	0.583703	-2.448332
6	0	4.157888	1.144503	-1.019225
6	0	4.997545	0.176573	-0.176686
1	0	4.547509	-0.819762	-0.143164
1	0	6.016287	0.088624	-0.566065

1	0	5.053937	0.559013	0.846521
6	0	4.789004	2.534222	-1.012828
1	0	5.747262	2.526702	-1.543352
1	0	4.139231	3.277500	-1.478316
1	0	4.978230	2.844915	0.018857
6	0	3.455606	1.675328	-3.473158
1	0	4.352356	2.226474	-3.772130
1	0	3.032310	1.207143	-4.366512
1	0	2.723461	2.388450	-3.083607
6	0	4.786109	-0.408116	-3.036321
1	0	4.426064	-0.761525	-4.006954
1	0	5.757859	0.072106	-3.193358
1	0	4.927781	-1.276176	-2.389725
8	0	-2.167500	-0.750680	-0.309081
6	0	-2.655147	-1.088260	-1.402167
7	0	-3.954726	-0.891526	-1.728768
1	0	-4.233881	-1.233619	-2.638970
6	0	-1.817348	-1.848544	-2.432416
1	0	-2.249420	-1.730363	-3.431934
6	0	-5.013651	-0.324739	-0.964830
6	0	-6.295423	-0.378103	-1.534301
6	0	-4.825545	0.272606	0.289725
6	0	-7.387522	0.158800	-0.855268
1	0	-6.439707	-0.841740	-2.507905
6	0	-5.932905	0.802772	0.958221
1	0	-3.837631	0.324060	0.724866
6	0	-7.211434	0.751233	0.398768
1	0	-8.373981	0.110148	-1.305953
1	0	-5.787491	1.259586	1.932925
1	0	-8.061313	1.165889	0.931666
15	0	0.964132	-1.471798	1.396112
8	0	1.540466	-0.680385	2.702558
8	0	-0.073691	-2.540194	2.090113
8	0	2.230530	-2.458030	1.027279
6	0	2.087093	-1.508928	3.769302
6	0	0.464334	-3.332436	3.191181
6	0	2.736595	-3.282180	2.119972
6	0	1.948171	-2.995485	3.407789
1	0	1.535414	-1.263990	4.682114
1	0	3.135659	-1.222383	3.897268
1	0	-0.133787	-3.104314	4.078868
1	0	0.325386	-4.386139	2.929370
1	0	2.636576	-4.327921	1.812104
1	0	3.798312	-3.045399	2.239913
1	0	2.346637	-3.609734	4.223126
15	0	-0.109561	1.834347	0.583813
8	0	0.188315	3.146533	-0.338548
8	0	-1.643804	2.109584	1.071579
8	0	0.735437	2.146391	1.935679
6	0	-0.013158	4.433429	0.320132
6	0	-1.878480	3.424554	1.666400

6	0	0.465038	3.433463	2.567166
6	0	-0.563438	4.218474	1.738781
1	0	-0.710843	5.001793	-0.301954
1	0	0.953351	4.946458	0.337464
1	0	-2.622148	3.932394	1.044726
1	0	-2.298602	3.253577	2.661973
1	0	0.098704	3.227458	3.577716
1	0	1.419797	3.963722	2.632046
1	0	-0.750145	5.190072	2.210031
45	0	0.109487	-0.157746	-0.445343
6	0	-0.343502	-1.433517	-2.421567
1	0	-0.325128	0.800819	-1.618269
6	0	0.397137	-2.308467	-1.666614
1	0	1.480183	-2.324006	-1.667599
6	0	-0.442884	-3.476882	-1.177668
1	0	-0.645373	-3.439191	-0.104268
1	0	0.080435	-4.419892	-1.370769
6	0	-1.742234	-3.355196	-2.012572
1	0	-2.631725	-3.688675	-1.470406
1	0	-1.661000	-3.961134	-2.920632
1	0	0.074374	-0.745568	-3.144163

TS1

45	0	0.283832	0.257818	-0.496086
1	0	0.713398	-1.254323	-1.434783
5	0	1.970859	-1.234105	-1.227748
8	0	2.818389	-0.793202	-2.210184
8	0	2.547712	-2.095939	-0.341051
6	0	3.791054	-3.765811	-1.541930
1	0	3.102381	-3.731079	-2.390883
1	0	4.767922	-4.103960	-1.900294
1	0	3.413539	-4.505055	-0.830020
6	0	4.840043	-2.496775	0.354659
1	0	5.870491	-2.655495	0.019409
1	0	4.805476	-1.594695	0.968039
1	0	4.556789	-3.346220	0.982876
6	0	4.821530	0.012956	-1.146476
1	0	5.857172	-0.195294	-0.861840
1	0	4.822771	0.851710	-1.848441
1	0	4.264389	0.320337	-0.257524
6	0	4.942687	-1.569299	-3.093968
1	0	5.059608	-0.681211	-3.721768
1	0	5.943083	-1.939933	-2.846674
1	0	4.423577	-2.331637	-3.677488
8	0	-2.167926	-0.098194	-0.959170
6	0	-2.776415	0.526735	-1.838698
7	0	-4.132724	0.537704	-1.944174
1	0	-4.507819	1.042464	-2.735928
6	0	-2.024494	1.358372	-2.868943
1	0	-2.715074	1.716420	-3.637792
6	0	-0.870622	0.525424	-3.506221

1	0	-1.036425	-0.553601	-3.440089
1	0	-0.770142	0.767478	-4.573008
6	0	-1.308697	2.563472	-2.171883
1	0	-1.753460	2.837215	-1.210935
1	0	-1.359604	3.454842	-2.811672
6	0	0.138010	2.130119	-2.065745
6	0	0.380673	0.997908	-2.798042
1	0	1.369195	0.650316	-3.075130
1	0	0.917892	2.806574	-1.737076
6	0	-5.111552	-0.091815	-1.127894
6	0	-6.423777	-0.124674	-1.624695
6	0	-4.825079	-0.638406	0.131249
6	0	-7.446111	-0.699368	-0.871807
1	0	-6.644819	0.297238	-2.602706
6	0	-5.861983	-1.211586	0.872894
1	0	-3.814763	-0.610575	0.514941
6	0	-7.169480	-1.248565	0.383588
1	0	-8.456529	-0.718429	-1.268434
1	0	-5.641505	-1.630365	1.850792
1	0	-7.963804	-1.697019	0.971894
15	0	-0.115958	-1.062281	1.288630
8	0	1.041664	-1.410761	2.372902
8	0	-1.341780	-0.562956	2.244730
8	0	-0.626369	-2.536054	0.821496
6	0	0.677483	-2.410904	3.370297
6	0	-1.636730	-1.443553	3.373387
6	0	-1.094853	-3.402857	1.898740
6	0	-0.819763	-2.741205	3.258819
1	0	0.925047	-1.984232	4.346558
1	0	1.299990	-3.293897	3.194082
1	0	-1.397536	-0.895715	4.290474
1	0	-2.712054	-1.641079	3.344102
1	0	-2.164013	-3.575366	1.740377
1	0	-0.557708	-4.349843	1.795754
1	0	-1.106346	-3.426506	4.064507
15	0	0.967322	1.939559	0.813647
8	0	2.362722	2.661913	0.323189
8	0	-0.018696	3.251653	0.953960
8	0	1.301550	1.624597	2.383771
6	0	2.788644	3.824024	1.097567
6	0	0.443289	4.313979	1.840173
6	0	1.867083	2.725166	3.155127
6	0	1.871992	4.012096	2.316471
1	0	2.758035	4.694374	0.433582
1	0	3.824769	3.641630	1.397545
1	0	0.397553	5.247940	1.271698
1	0	-0.257126	4.373178	2.679641
1	0	1.249671	2.833794	4.051683
1	0	2.879927	2.432546	3.450126
1	0	2.240370	4.844839	2.926297
6	0	3.894229	-2.406710	-0.839963

6	0	4.177743	-1.202089	-1.825268

TS2

45	0	-0.274849	-0.197441	-0.652888
1	0	-0.314050	0.527270	-2.092320
5	0	-2.317469	-0.022843	-0.695796
8	0	-3.066146	-0.700861	-1.629628
8	0	-3.076703	0.749345	0.138894
6	0	-4.620543	2.050648	-1.174267
1	0	-3.927394	2.099110	-2.018776
1	0	-5.641349	2.154807	-1.554437
1	0	-4.412369	2.901080	-0.518977
6	0	-5.404650	0.745296	0.820741
1	0	-6.445855	0.688069	0.485682
1	0	-5.205429	-0.092728	1.490835
1	0	-5.284335	1.671330	1.390296
6	0	-4.868854	-1.815300	-0.488579
1	0	-5.926831	-1.804492	-0.209676
1	0	-4.695375	-2.687618	-1.125730
1	0	-4.265737	-1.927745	0.416321
6	0	-5.299845	-0.443240	-2.547685
1	0	-5.224932	-1.379529	-3.108519
1	0	-6.357526	-0.272832	-2.319809
1	0	-4.948490	0.366667	-3.189776
8	0	2.060286	-0.345569	-0.754311
6	0	2.684083	-0.998096	-1.610215
7	0	4.037859	-1.003022	-1.677126
1	0	4.438527	-1.591644	-2.395225
6	0	1.954552	-1.838465	-2.647306
1	0	2.677710	-2.383009	-3.261202
6	0	1.035177	-0.950693	-3.539254
1	0	1.431340	0.052607	-3.716622
1	0	0.912139	-1.430444	-4.519076
6	0	0.959915	-2.811513	-1.950615
1	0	1.302246	-3.153534	-0.971107
1	0	0.827716	-3.702851	-2.579621
6	0	-0.353962	-2.046658	-1.913383
6	0	-0.319950	-0.982673	-2.845233
1	0	-1.216253	-0.659359	-3.363771
1	0	-1.283242	-2.548389	-1.669756
6	0	4.993830	-0.336189	-0.859923
6	0	6.338327	-0.690351	-1.052960
6	0	4.652312	0.641245	0.086022
6	0	7.340394	-0.075461	-0.304879
1	0	6.601106	-1.448343	-1.787818
6	0	5.670683	1.245055	0.829621
1	0	3.618989	0.923810	0.232329
6	0	7.010152	0.896361	0.644357
1	0	8.376460	-0.358040	-0.464010
1	0	5.405967	2.000874	1.563426
1	0	7.788560	1.375736	1.229616

15	0	-0.139803	1.938234	0.225356
8	0	-0.781070	2.277324	1.685586
8	0	1.398943	2.474307	0.407469
8	0	-0.780776	3.115505	-0.716656
6	0	-0.603767	3.642954	2.159599
6	0	1.533637	3.853861	0.863101
6	0	-0.652129	4.474985	-0.205425
6	0	0.147382	4.472452	1.106908
1	0	-0.048598	3.590749	3.101690
1	0	-1.601421	4.048715	2.354319
1	0	2.127771	3.833136	1.782045
1	0	2.086603	4.398532	0.091283
1	0	-0.150737	5.062424	-0.980670
1	0	-1.663517	4.866870	-0.057724
1	0	0.264821	5.501299	1.465625
15	0	-0.364416	-1.429636	1.346060
8	0	-1.830447	-1.968491	1.841233
8	0	0.499904	-2.829136	1.351079
8	0	0.203513	-0.697866	2.692316
6	0	-1.837818	-2.757093	3.069334
6	0	0.489313	-3.579320	2.603042
6	0	0.143507	-1.474935	3.923594
6	0	-0.411979	-2.877415	3.631176
1	0	-2.256399	-3.737985	2.823006
1	0	-2.504251	-2.249555	3.773342
1	0	0.126564	-4.585616	2.371664
1	0	1.523956	-3.643394	2.954404
1	0	1.160081	-1.520520	4.326047
1	0	-0.495639	-0.926797	4.622934
1	0	-0.434018	-3.463313	4.557019
6	0	-4.452802	0.753951	-0.372613
6	0	-4.482468	-0.549498	-1.263082

TS3

45	0	0.291120	0.329176	-0.433450
1	0	-0.002020	-0.814088	-2.653089
5	0	2.265416	-0.191545	-0.492664
8	0	2.675759	-0.956475	-1.557732
8	0	3.273155	0.080349	0.393399
6	0	4.431324	-1.961513	0.922575
1	0	3.519855	-2.549955	0.789497
1	0	5.299079	-2.600504	0.732834
1	0	4.469715	-1.631960	1.964874
6	0	5.696617	0.103750	0.264833
1	0	6.590430	-0.440578	-0.058474
1	0	5.664370	1.060699	-0.259363
1	0	5.794562	0.304521	1.335742
6	0	4.683104	0.003970	-2.476622
1	0	5.775254	-0.029481	-2.535015
1	0	4.283339	-0.196204	-3.474874
1	0	4.382008	1.014424	-2.185375

6	0	4.552243	-2.447593	-1.959495
1	0	4.270068	-2.589040	-3.007001
1	0	5.637399	-2.575953	-1.884743
1	0	4.069486	-3.227140	-1.367403
8	0	-2.003597	0.531055	-0.734184
6	0	-2.614829	1.088230	-1.667029
7	0	-3.965366	1.222213	-1.662859
1	0	-4.353043	1.695963	-2.467829
6	0	-1.904183	1.633453	-2.895791
1	0	-2.594395	2.268857	-3.461152
6	0	-1.349736	0.485198	-3.788297
1	0	-2.020533	-0.378109	-3.838369
1	0	-1.249175	0.873628	-4.807448
6	0	-0.621218	2.397958	-2.510474
1	0	-0.764920	3.076062	-1.666017
1	0	-0.329929	3.014819	-3.373042
6	0	0.442109	1.310882	-2.291576
6	0	0.044021	0.137399	-3.205381
1	0	0.793280	-0.026193	-3.987935
1	0	1.454061	1.681426	-2.447176
6	0	-4.933155	0.810588	-0.706512
6	0	-6.265723	1.160757	-0.978426
6	0	-4.621952	0.088447	0.454920
6	0	-7.283198	0.795321	-0.099735
1	0	-6.506463	1.720997	-1.879501
6	0	-5.655763	-0.269318	1.325660
1	0	-3.599427	-0.187086	0.670288
6	0	-6.982403	0.076211	1.060918
1	0	-8.308542	1.073355	-0.323394
1	0	-5.413220	-0.828460	2.224804
1	0	-7.772666	-0.209864	1.747841
15	0	-0.096040	-1.089945	1.565166
8	0	0.062013	-0.336281	3.016634
8	0	-1.598126	-1.753616	1.734442
8	0	0.857568	-2.413794	1.789286
6	0	-0.167197	-1.145126	4.202317
6	0	-1.819364	-2.542126	2.939043
6	0	0.602633	-3.199387	2.988094
6	0	-0.545676	-2.577041	3.797134
1	0	-0.968259	-0.666741	4.775489
1	0	0.753550	-1.126659	4.794886
1	0	-2.651491	-2.082935	3.482825
1	0	-2.114690	-3.548013	2.622169
1	0	0.357756	-4.217301	2.666708
1	0	1.531735	-3.222898	3.566732
1	0	-0.727110	-3.178377	4.695208
15	0	0.957966	2.165219	0.539290
8	0	2.019572	3.107630	-0.270818
8	0	-0.273547	3.215285	0.793144
8	0	1.625455	2.064058	2.012365
6	0	2.401764	4.344888	0.403829

6	0	0.103997	4.486365	1.407362
6	0	1.950558	3.332298	2.652501
6	0	1.610440	4.498742	1.712486
1	0	2.194602	5.164031	-0.291435
1	0	3.479163	4.295525	0.589415
1	0	-0.170727	5.280493	0.705746
1	0	-0.492886	4.590838	2.318189
1	0	1.375255	3.381522	3.582286
1	0	3.018074	3.304018	2.890813
1	0	1.878259	5.447166	2.191926
6	0	4.439352	-0.725688	0.014753
6	0	4.142702	-1.050017	-1.502774
8	0	-0.450015	-2.433924	-1.208166
6	0	-1.810565	-2.898858	-1.376239
6	0	0.479349	-3.527747	-1.432088
6	0	-1.735121	-4.423018	-1.291882
1	0	-2.419014	-2.434928	-0.598381
1	0	-2.178418	-2.577080	-2.361157
6	0	-0.364744	-4.706669	-1.928990
1	0	1.235490	-3.192214	-2.145910
1	0	0.971576	-3.746401	-0.477620
1	0	-2.564318	-4.913902	-1.809187
1	0	-1.747365	-4.747851	-0.244869
1	0	-0.444628	-4.692567	-3.021911
1	0	0.057857	-5.672096	-1.636476

TS4

5	0	-1.871547	-1.134972	-1.018710
8	0	-2.809107	-0.484153	-1.812115
8	0	-2.488977	-2.011510	-0.127951
6	0	-4.113698	-1.102531	-1.586726
6	0	-3.927528	-1.771489	-0.168686
6	0	-4.284922	-0.840038	0.997775
1	0	-3.801423	0.135027	0.904137
1	0	-5.367589	-0.691922	1.063972
1	0	-3.941140	-1.296341	1.929656
6	0	-4.636359	-3.114603	0.007225
1	0	-5.721041	-2.998797	-0.092603
1	0	-4.296545	-3.854261	-0.720422
1	0	-4.432154	-3.506590	1.008055
6	0	-4.328552	-2.115230	-2.720545
1	0	-5.315270	-2.583851	-2.657188
1	0	-4.258980	-1.595521	-3.680474
1	0	-3.574819	-2.908092	-2.707583
6	0	-5.182232	-0.012853	-1.655054
1	0	-5.222074	0.400487	-2.667572
1	0	-6.170809	-0.423098	-1.422595
1	0	-4.971038	0.803030	-0.961352
8	0	2.295479	-0.008377	-0.888718
6	0	2.811925	-0.896234	-1.582349
7	0	4.147449	-1.172877	-1.556653

1	0	4.456567	-1.893862	-2.194484
6	0	1.973631	-1.760501	-2.513631
1	0	2.620615	-2.495119	-3.004796
6	0	5.185027	-0.574944	-0.793675
6	0	6.501130	-0.947836	-1.112003
6	0	4.950699	0.332748	0.250312
6	0	7.574829	-0.420495	-0.396970
1	0	6.684788	-1.649911	-1.922522
6	0	6.038806	0.854306	0.956088
1	0	3.938521	0.619812	0.496984
6	0	7.349214	0.486689	0.642839
1	0	8.586609	-0.717817	-0.655483
1	0	5.852179	1.557508	1.762815
1	0	8.184355	0.900404	1.199339
15	0	-0.712939	1.813029	1.097607
8	0	-2.283516	2.286567	1.034768
8	0	-0.461855	1.713699	2.710405
8	0	0.042977	3.232525	0.749447
6	0	-2.628755	3.482448	1.797416
6	0	-0.905273	2.852334	3.504964
6	0	-0.289829	4.365993	1.606024
6	0	-1.406430	3.975252	2.585417
1	0	-3.453489	3.208769	2.462228
1	0	-2.979775	4.236767	1.085617
1	0	-1.696907	2.498885	4.173805
1	0	-0.047568	3.174934	4.102790
1	0	0.623913	4.658965	2.132831
1	0	-0.600421	5.184677	0.949338
1	0	-1.686149	4.845941	3.189307
15	0	-0.032801	-1.240230	1.503074
8	0	0.150357	-2.847606	1.275722
8	0	1.302491	-0.900222	2.381579
8	0	-1.208830	-1.197589	2.629718
6	0	0.182497	-3.648448	2.495393
6	0	1.575157	-1.812715	3.486187
6	0	-0.896794	-1.868500	3.884661
6	0	0.363784	-2.730618	3.714985
1	0	1.018179	-4.345014	2.385425
1	0	-0.754201	-4.212694	2.547472
1	0	2.475162	-2.383668	3.235058
1	0	1.779594	-1.189969	4.361733
1	0	-0.758686	-1.098174	4.650881
1	0	-1.770258	-2.476421	4.136970
1	0	0.522491	-3.336756	4.613938
45	0	-0.217514	0.091299	-0.278389
6	0	0.862228	-2.507577	-1.722012
1	0	0.749359	-3.498308	-2.180327
1	0	1.124358	-2.687713	-0.682785
6	0	-0.471621	-1.731871	-1.954982
1	0	-1.215743	-2.539310	-2.017418
6	0	-0.288904	-1.164557	-3.383790

1	0	-0.890652	-0.277632	-3.577102
1	0	-0.617404	-1.927892	-4.101811
6	0	1.220730	-0.899049	-3.574046
1	0	1.442287	0.156604	-3.416618
1	0	1.549338	-1.149265	-4.586865
8	0	-0.263087	1.620986	-1.927136
6	0	0.886645	2.517977	-2.120975
6	0	-1.484892	2.264775	-2.419350
6	0	0.297845	3.830316	-2.632335
1	0	1.417665	2.603405	-1.174852
1	0	1.541428	2.049694	-2.859830
6	0	-0.989242	3.374254	-3.338288
1	0	-2.086585	1.493445	-2.895958
1	0	-2.037273	2.656527	-1.559371
1	0	0.990889	4.354188	-3.296242
1	0	0.060232	4.493020	-1.793978
1	0	-0.766141	2.979541	-4.335770
1	0	-1.726736	4.174329	-3.447923

TS5

5	0	1.643121	0.310045	1.162831
8	0	1.421890	0.359609	2.510137
8	0	2.766096	0.970988	0.756397
6	0	2.624493	0.948318	3.129583
6	0	3.274807	1.723744	1.915069
6	0	2.764495	3.160743	1.759139
1	0	1.671872	3.202139	1.770699
1	0	3.148371	3.806387	2.554789
1	0	3.112188	3.554761	0.799851
6	0	4.799666	1.694434	1.869529
1	0	5.221221	2.192471	2.749074
1	0	5.185340	0.674281	1.828327
1	0	5.149399	2.228164	0.981032
6	0	3.470578	-0.224712	3.636518
1	0	4.363346	0.128389	4.161332
1	0	2.875502	-0.815617	4.338439
1	0	3.785411	-0.880410	2.819532
6	0	2.175561	1.824824	4.294479
1	0	1.715182	1.201916	5.066681
1	0	3.033228	2.337763	4.742642
1	0	1.444420	2.572460	3.982035
8	0	-2.052541	-0.880287	0.327302
6	0	-2.682977	-1.932790	0.581810
7	0	-4.034021	-1.976421	0.578132
1	0	-4.432761	-2.874811	0.818506
6	0	-1.983270	-3.228283	0.955433
1	0	-2.670652	-4.068631	0.810452
6	0	-4.997379	-0.953933	0.347832
6	0	-6.325204	-1.260370	0.683603
6	0	-4.681555	0.293019	-0.208016
6	0	-7.336561	-0.325694	0.471074

1	0	-6.567404	-2.229399	1.114485
6	0	-5.708727	1.218827	-0.412547
1	0	-3.662762	0.527645	-0.482199
6	0	-7.031661	0.923337	-0.077438
1	0	-8.359530	-0.574283	0.735959
1	0	-5.467994	2.185245	-0.846161
1	0	-7.816766	1.654182	-0.243681
15	0	-0.384401	1.633222	-0.810157
8	0	0.662673	2.475529	-1.742405
8	0	-1.741393	1.659313	-1.738179
8	0	-0.761912	2.743024	0.341054
6	0	0.226617	3.801435	-2.158890
6	0	-2.136410	2.967383	-2.249060
6	0	-1.256998	4.025577	-0.146917
6	0	-1.212318	4.057795	-1.683593
1	0	0.300914	3.835351	-3.250198
1	0	0.926382	4.526692	-1.731002
1	0	-2.085267	2.923532	-3.341654
1	0	-3.175974	3.128652	-1.947692
1	0	-2.277359	4.148681	0.229916
1	0	-0.620048	4.802023	0.287753
1	0	-1.546365	5.039404	-2.038295
15	0	1.847107	-1.155542	-1.300916
8	0	3.185486	-1.856341	-0.685915
8	0	1.353573	-2.290641	-2.374550
8	0	2.449755	-0.010833	-2.278689
6	0	4.139131	-2.358371	-1.672761
6	0	2.337045	-2.646495	-3.397691
6	0	3.521268	-0.444875	-3.170043
6	0	3.683456	-1.970965	-3.088318
1	0	4.196676	-3.444439	-1.549176
1	0	5.108615	-1.916038	-1.426935
1	0	2.420404	-3.736984	-3.387037
1	0	1.937172	-2.325722	-4.364621
1	0	3.241427	-0.120788	-4.176251
1	0	4.433340	0.076395	-2.863266
1	0	4.433427	-2.300239	-3.816414
45	0	0.210442	-0.604482	0.036494
6	0	-0.671637	-3.418495	0.167531
1	0	-0.374551	-4.472348	0.259604
1	0	-0.772933	-3.217762	-0.903898
6	0	0.359646	-2.523808	0.887652
1	0	1.367222	-2.935318	0.843689
6	0	-0.155274	-2.355337	2.340026
1	0	-0.333252	-1.304849	2.596638
1	0	0.585455	-2.705471	3.066582
6	0	-1.474272	-3.156715	2.422667
1	0	-2.200224	-2.714807	3.112599
1	0	-1.284760	-4.181865	2.759426

TS6

5	0	0.974273	-1.722971	0.352245
8	0	0.125471	-2.129793	1.356159
8	0	2.278741	-2.104151	0.573760
6	0	0.884769	-2.948915	2.305998
6	0	2.383283	-2.570136	1.959758
6	0	2.927765	-1.402144	2.791889
1	0	2.266946	-0.532841	2.755405
1	0	3.068023	-1.695634	3.836593
1	0	3.896175	-1.098253	2.387075
6	0	3.370221	-3.735614	1.993520
1	0	3.434691	-4.159194	3.001344
1	0	3.089876	-4.529810	1.299273
1	0	4.366182	-3.379061	1.714993
6	0	0.535310	-4.416324	2.025331
1	0	1.013131	-5.080976	2.751511
1	0	-0.547485	-4.546778	2.109664
1	0	0.839515	-4.730148	1.023793
6	0	0.430868	-2.574961	3.715924
1	0	-0.620327	-2.848806	3.844497
1	0	1.014919	-3.115451	4.468330
1	0	0.525290	-1.503749	3.901246
8	0	-1.834305	-0.430162	-0.642872
6	0	-2.393166	-0.991290	-1.615124
7	0	-3.738536	-1.045204	-1.708188
1	0	-4.095278	-1.501108	-2.538462
6	0	-1.625188	-1.703987	-2.725930
1	0	-2.133196	-1.531519	-3.681903
6	0	-4.746461	-0.578972	-0.816047
6	0	-6.068643	-0.642313	-1.282698
6	0	-4.477142	-0.102783	0.475039
6	0	-7.120950	-0.234800	-0.465251
1	0	-6.274934	-1.010666	-2.285324
6	0	-5.545574	0.298809	1.282282
1	0	-3.460881	-0.048265	0.838759
6	0	-6.863693	0.238069	0.824987
1	0	-8.139341	-0.289804	-0.837144
1	0	-5.337574	0.654893	2.287155
1	0	-7.682090	0.550862	1.465741
15	0	-0.288726	2.014992	0.498037
8	0	0.845308	2.881482	1.293953
8	0	-1.006798	3.159008	-0.424334
8	0	-1.406404	1.773726	1.666526
6	0	0.353678	4.064061	1.995965
6	0	-1.458025	4.354451	0.281337
6	0	-1.884330	2.979343	2.337752
6	0	-1.161096	4.217030	1.782793
1	0	0.902887	4.923967	1.600604
1	0	0.600101	3.936338	3.054453
1	0	-0.932474	5.208113	-0.157631
1	0	-2.530473	4.456270	0.090019
1	0	-2.964236	3.037588	2.169849

1	0	-1.693423	2.847611	3.407162
1	0	-1.513623	5.111256	2.309195
15	0	2.375627	0.728261	-0.849519
8	0	3.409679	0.936320	0.387927
8	0	3.225585	-0.217320	-1.874634
8	0	2.461038	2.176143	-1.608739
6	0	4.716256	1.481484	0.033379
6	0	4.599406	0.208903	-2.124987
6	0	3.799488	2.587602	-2.022358
6	0	4.842763	1.589561	-1.494036
1	0	5.465264	0.803206	0.452381
1	0	4.805800	2.459202	0.517317
1	0	5.262490	-0.551499	-1.700527
1	0	4.728051	0.233492	-3.210810
1	0	3.805455	2.636659	-3.115862
1	0	3.962147	3.590829	-1.617881
1	0	5.848370	1.938457	-1.754742
45	0	0.282331	0.066383	-0.545843
6	0	-0.150333	-1.284418	-2.773816
1	0	0.297571	-1.710597	-3.679808
1	0	-0.018399	-0.197363	-2.866311
6	0	0.518703	-1.989884	-1.532511
1	0	1.540996	-2.253394	-1.796948
6	0	-0.385383	-3.260764	-1.328844
1	0	-0.847988	-3.270382	-0.342519
1	0	0.219654	-4.168901	-1.407724
6	0	-1.491238	-3.214447	-2.406566
1	0	-2.421265	-3.679918	-2.065303
1	0	-1.184843	-3.726758	-3.324902

TS7

5	0	-2.340739	-1.196396	-0.622979
8	0	-3.278552	-0.547900	-1.398089
8	0	-2.872917	-1.811155	0.481665
6	0	-4.602618	-0.948923	-0.912062
6	0	-4.292065	-1.427133	0.564144
6	0	-4.406734	-0.307576	1.602591
1	0	-3.819645	0.569947	1.323915
1	0	-5.450530	-0.010018	1.740382
1	0	-4.025919	-0.670980	2.560252
6	0	-5.080329	-2.651398	1.026072
1	0	-6.153963	-2.436099	1.039839
1	0	-4.907379	-3.517921	0.385141
1	0	-4.778343	-2.918608	2.042913
6	0	-5.083648	-2.077042	-1.835016
1	0	-6.095382	-2.401658	-1.574520
1	0	-5.098010	-1.712127	-2.865850
1	0	-4.427201	-2.951936	-1.790821
6	0	-5.538395	0.251683	-1.025194
1	0	-5.659614	0.520743	-2.078449
1	0	-6.528069	0.011532	-0.622477

1	0	-5.146345	1.121932	-0.496380
8	0	2.135253	-0.443151	-1.445903
6	0	2.349998	-1.655777	-1.550649
7	0	3.513004	-2.253955	-1.159136
1	0	3.581732	-3.246496	-1.339342
6	0	1.282240	-2.596957	-2.105872
1	0	1.738583	-3.555548	-2.374565
6	0	4.666630	-1.681891	-0.560742
6	0	5.763114	-2.535695	-0.357031
6	0	4.746511	-0.336670	-0.169154
6	0	6.930980	-2.053822	0.231109
1	0	5.703523	-3.577979	-0.663529
6	0	5.926734	0.130614	0.416900
1	0	3.906117	0.323892	-0.329596
6	0	7.019808	-0.714164	0.621745
1	0	7.771195	-2.725442	0.379159
1	0	5.986459	1.174067	0.713156
1	0	7.930441	-0.335384	1.075214
15	0	0.032992	2.276842	-0.572545
8	0	-0.854182	3.270067	0.368950
8	0	1.545391	2.824071	-0.323616
8	0	-0.296060	2.834096	-2.072580
6	0	-0.632670	4.699450	0.147393
6	0	1.738523	4.255102	-0.548612
6	0	-0.090702	4.268977	-2.268962
6	0	0.409759	4.908234	-0.963582
1	0	-0.297733	5.124082	1.098410
1	0	-1.600341	5.133981	-0.119937
1	0	2.121040	4.677628	0.385376
1	0	2.499313	4.357615	-1.328076
1	0	0.636923	4.381170	-3.077973
1	0	-1.049772	4.689960	-2.584593
1	0	0.563741	5.981911	-1.120298
15	0	-0.246963	0.011307	1.638612
8	0	-1.451243	0.493313	2.620079
8	0	0.049671	-1.508351	2.156852
8	0	1.027223	0.827023	2.250389
6	0	-1.168557	0.402719	4.051440
6	0	0.185555	-1.662300	3.604584
6	0	1.303312	0.585260	3.664889
6	0	0.189443	-0.279931	4.276739
1	0	-1.986807	-0.169872	4.497632
1	0	-1.181530	1.420923	4.452156
1	0	-0.650785	-2.278644	3.948579
1	0	1.123689	-2.197394	3.776275
1	0	2.279174	0.094100	3.728161
1	0	1.362123	1.565462	4.146447
1	0	0.365885	-0.397549	5.351933
45	0	-0.419527	0.085098	-0.547170
6	0	0.139378	-2.827408	-1.060505
1	0	-0.187138	-3.871039	-1.105990

1	0	0.474628	-2.655640	-0.036041
6	0	-1.037400	-1.894662	-1.500471
1	0	-1.850344	-2.569512	-1.807011
6	0	-0.595467	-1.146994	-2.778597
1	0	-0.228969	-0.096620	-2.589569
1	0	-1.420971	-1.009006	-3.479648
6	0	0.580921	-1.969274	-3.335518
1	0	1.261094	-1.375203	-3.950774
1	0	0.177468	-2.770855	-3.964823

TS8

45	0	0.341676	0.639037	-0.624745
8	0	-1.132763	-1.193726	-0.733509
6	0	-1.667582	-1.587557	-1.784911
7	0	-2.659725	-2.512882	-1.800463
1	0	-2.984200	-2.787671	-2.717939
6	0	-1.249875	-1.028782	-3.134123
1	0	-1.743408	-1.583561	-3.937021
6	0	0.298393	-1.072017	-3.289066
1	0	0.774308	-1.866209	-2.708329
1	0	0.563275	-1.240233	-4.342104
6	0	-1.605319	0.491719	-3.210115
1	0	-2.454570	0.772683	-2.581313
1	0	-1.866104	0.758394	-4.243647
6	0	-0.309243	1.193188	-2.851474
6	0	0.753655	0.316299	-2.902070
1	0	1.787396	0.613741	-3.014628
1	0	-0.202058	2.269289	-2.921119
6	0	-3.306602	-3.178873	-0.723011
6	0	-4.132391	-4.262954	-1.058514
6	0	-3.178287	-2.781841	0.615456
6	0	-4.828193	-4.949480	-0.065265
1	0	-4.230091	-4.570407	-2.097419
6	0	-3.883009	-3.481855	1.598957
1	0	-2.547294	-1.943652	0.876011
6	0	-4.705584	-4.562097	1.272286
1	0	-5.463991	-5.785990	-0.338340
1	0	-3.790304	-3.169901	2.635382
1	0	-5.247009	-5.094543	2.047856
15	0	0.357003	0.147361	1.590177
8	0	1.212070	1.088085	2.598606
8	0	-1.119535	0.127275	2.292749
8	0	0.894113	-1.352216	1.942304
6	0	1.273053	0.626127	3.980924
6	0	-1.109821	-0.121463	3.731140
6	0	0.759749	-1.746448	3.341719
6	0	0.297473	-0.545564	4.182932
1	0	1.010902	1.482967	4.607770
1	0	2.307328	0.331911	4.185538
1	0	-1.431894	0.798974	4.228803
1	0	-1.846125	-0.908107	3.919027

1	0	0.041931	-2.571898	3.385483
1	0	1.741844	-2.106404	3.661646
1	0	0.274393	-0.826479	5.241915
15	0	-1.001680	2.538509	-0.247526
8	0	-0.570228	3.863738	-1.133330
8	0	-2.616256	2.470149	-0.589400
8	0	-1.025533	3.173919	1.266746
6	0	-1.344289	5.077724	-0.905744
6	0	-3.376125	3.697619	-0.385526
6	0	-1.816102	4.382320	1.455315
6	0	-2.451398	4.812885	0.125336
1	0	-1.760653	5.383650	-1.871051
1	0	-0.648347	5.848093	-0.558596
1	0	-3.831984	3.964262	-1.344763
1	0	-4.169253	3.473638	0.334997
1	0	-2.578703	4.158761	2.208585
1	0	-1.142566	5.151824	1.845717
1	0	-3.033624	5.728648	0.278671
5	0	2.702388	0.040656	-0.545618
8	0	3.229100	-0.617591	-1.621568
8	0	3.429686	-0.098898	0.598956
6	0	4.314447	-1.478642	-1.117772
6	0	4.687507	-0.773280	0.243997
6	0	5.426419	-1.505504	-2.162194
6	0	3.710999	-2.877494	-0.942169
6	0	5.064170	-1.720307	1.380214
6	0	5.741727	0.330429	0.098836
1	0	6.283704	-2.079645	-1.795223
1	0	5.063984	-1.989241	-3.073900
1	0	5.766141	-0.501521	-2.422186
1	0	3.311718	-3.215614	-1.902759
1	0	4.469069	-3.597733	-0.620263
1	0	2.896274	-2.877791	-0.212639
1	0	4.261013	-2.424097	1.605842
1	0	5.965012	-2.288492	1.125505
1	0	5.278155	-1.140852	2.283075
1	0	6.729947	-0.089150	-0.111743
1	0	5.485100	1.031459	-0.700470
1	0	5.799986	0.891997	1.035223
1	0	1.973729	1.130295	-0.629883

TS9

45	0	-0.255810	-0.662169	-0.680167
8	0	1.041190	1.200626	-0.530171
6	0	1.348547	1.915972	-1.503634
7	0	2.186952	2.971827	-1.388926
1	0	2.353521	3.488021	-2.242466
6	0	0.785258	1.642016	-2.886755
1	0	1.188413	2.364214	-3.602815
6	0	-0.767848	1.692206	-2.863005
1	0	-1.167821	2.439669	-2.176511

1	0	-1.124656	1.938451	-3.870638
6	0	1.089212	0.185448	-3.327532
1	0	2.067955	-0.172150	-2.995392
1	0	1.081815	0.140918	-4.425607
6	0	-0.080835	-0.628462	-2.793487
6	0	-1.216423	0.256180	-2.542787
1	0	-2.145960	-0.076523	-3.008546
1	0	-0.243938	-1.620017	-3.206475
6	0	2.871517	3.482884	-0.250911
6	0	3.640691	4.639534	-0.453894
6	0	2.813616	2.890620	1.018989
6	0	4.350145	5.205416	0.603221
1	0	3.683757	5.098091	-1.439583
6	0	3.532695	3.471787	2.067578
1	0	2.222546	2.000225	1.180302
6	0	4.299435	4.622397	1.872938
1	0	4.940648	6.100313	0.432890
1	0	3.489923	3.011626	3.050484
1	0	4.851330	5.060931	2.698330
15	0	-0.613059	-0.584306	1.656104
8	0	-1.011799	-2.009921	2.350823
8	0	0.747128	-0.168128	2.474055
8	0	-1.710934	0.423522	2.345178
6	0	-1.085712	-2.015090	3.805821
6	0	0.657365	-0.211210	3.927367
6	0	-1.769937	0.399009	3.802831
6	0	-0.760351	-0.617522	4.357357
1	0	-0.371571	-2.763613	4.163205
1	0	-2.098167	-2.328888	4.078791
1	0	1.404648	-0.929973	4.278792
1	0	0.916406	0.785227	4.299206
1	0	-1.554017	1.413410	4.152693
1	0	-2.795596	0.135531	4.081142
1	0	-0.820732	-0.632737	5.451460
15	0	1.473761	-2.185222	-0.571131
8	0	1.291717	-3.455304	-1.588534
8	0	2.954135	-1.631756	-1.009941
8	0	1.800695	-2.934159	0.843691
6	0	2.386128	-4.421138	-1.601178
6	0	4.029886	-2.620307	-0.992018
6	0	2.870339	-3.926338	0.809393
6	0	3.474477	-3.999600	-0.601104
1	0	2.772488	-4.459377	-2.624414
1	0	1.959086	-5.394956	-1.343745
1	0	4.470268	-2.634056	-1.993715
1	0	4.779624	-2.270352	-0.275816
1	0	3.615577	-3.620828	1.550231
1	0	2.434678	-4.883751	1.111343
1	0	4.286300	-4.735574	-0.613249
5	0	-2.339897	0.246775	-1.011331
8	0	-2.684118	1.489431	-0.563511

8	0	-3.395638	-0.627335	-1.072385
6	0	-4.150828	1.553558	-0.473495
6	0	-4.570897	0.021218	-0.481284
6	0	-4.622576	2.332631	-1.707293
6	0	-4.513273	2.317495	0.797403
6	0	-4.765990	-0.583091	0.913757
6	0	-5.777190	-0.312929	-1.359060
1	0	-5.708372	2.465099	-1.702785
1	0	-4.159709	3.323569	-1.701397
1	0	-4.344917	1.832099	-2.639639
1	0	-4.158092	3.349025	0.717854
1	0	-5.599205	2.343767	0.936114
1	0	-4.052806	1.868026	1.677765
1	0	-3.914284	-0.374982	1.563305
1	0	-5.673547	-0.195125	1.386649
1	0	-4.868720	-1.667572	0.815808
1	0	-6.678691	0.183284	-0.984500
1	0	-5.625737	-0.018678	-2.399423
1	0	-5.952985	-1.392071	-1.335991
1	0	-1.131425	-1.918322	-0.760562

TS10

45	0	-0.787009	0.537311	-0.348869
8	0	1.248883	-0.796523	-0.860867
6	0	1.774142	-0.907601	-1.977903
7	0	2.827875	-1.737422	-2.214568
1	0	3.168021	-1.751220	-3.166939
6	0	1.315332	-0.093691	-3.185916
1	0	1.636467	-0.609360	-4.098019
6	0	1.889266	1.350408	-3.163501
1	0	2.900477	1.395821	-2.746083
1	0	1.960662	1.706131	-4.196130
6	0	-0.208185	0.132434	-3.209219
1	0	-0.770951	-0.748422	-2.895754
1	0	-0.501018	0.344116	-4.246327
6	0	-0.471080	1.415349	-2.371654
1	0	-1.284657	1.972377	-2.838506
6	0	3.546048	-2.579673	-1.324094
6	0	4.621226	-3.298900	-1.871290
6	0	3.232360	-2.718336	0.036509
6	0	5.381166	-4.148367	-1.070151
1	0	4.864094	-3.192517	-2.926489
6	0	4.006603	-3.574705	0.825466
1	0	2.403611	-2.170468	0.462503
6	0	5.077613	-4.290682	0.287232
1	0	6.209185	-4.697361	-1.508045
1	0	3.763110	-3.679881	1.878926
1	0	5.668279	-4.951308	0.914049
15	0	-0.920239	-0.535616	1.771227
8	0	-1.297376	0.445925	3.030355
8	0	-2.004809	-1.747648	1.956618

8	0	0.453848	-1.245169	2.316504
6	0	-1.405547	-0.203252	4.333709
6	0	-2.035586	-2.385716	3.267003
6	0	0.379571	-1.832662	3.650231
6	0	-1.043611	-1.692238	4.213321
1	0	-2.434015	-0.064868	4.681258
1	0	-0.725777	0.322101	5.011780
1	0	-3.062629	-2.310089	3.637350
1	0	-1.782812	-3.440753	3.122179
1	0	0.669824	-2.883351	3.554452
1	0	1.113030	-1.315144	4.277104
1	0	-1.092688	-2.161274	5.202506
15	0	-2.803962	-0.147619	-0.850357
8	0	-3.460877	0.568801	-2.170182
8	0	-2.960917	-1.728512	-1.234468
8	0	-3.980389	0.065679	0.258722
6	0	-4.789575	0.091244	-2.546599
6	0	-4.310151	-2.172601	-1.570500
6	0	-5.314703	-0.376650	-0.136836
6	0	-5.273144	-0.975764	-1.550840
1	0	-4.714575	-0.311312	-3.561495
1	0	-5.451068	0.962576	-2.554954
1	0	-4.258081	-2.633373	-2.561488
1	0	-4.595736	-2.932807	-0.836864
1	0	-5.641338	-1.114039	0.602600
1	0	-5.970792	0.497626	-0.086729
1	0	-6.277598	-1.309054	-1.835614
5	0	1.388330	2.641223	-0.956657
8	0	2.262827	3.655911	-0.731420
8	0	0.991964	1.998910	0.207824
6	0	2.656259	3.616506	0.679111
6	0	1.456014	2.839575	1.348255
6	0	2.836890	5.051800	1.166036
6	0	3.988775	2.859114	0.740295
6	0	1.865757	1.945938	2.511354
6	0	0.276371	3.733825	1.737205
1	0	3.062165	5.072746	2.237461
1	0	3.675653	5.511631	0.636215
1	0	1.948415	5.658539	0.982797
1	0	4.707094	3.359859	0.085519
1	0	4.399498	2.852456	1.753917
1	0	3.883394	1.823452	0.403937
1	0	2.533038	1.144105	2.192254
1	0	2.375947	2.546924	3.271804
1	0	0.981591	1.503726	2.972796
1	0	0.528007	4.352553	2.603538
1	0	-0.020036	4.394778	0.917632
1	0	-0.579150	3.106969	2.002632
1	0	-1.313164	1.813722	-1.095039
6	0	0.854161	2.224609	-2.373409
1	0	0.705097	3.160994	-2.926995

TS11

5	0	0.776655	-0.521212	1.126047
8	0	-0.179516	-1.335371	1.650524
8	0	1.664372	-0.021666	2.029428
6	0	0.180039	-1.573110	3.065859
6	0	1.156589	-0.364853	3.371263
6	0	0.446905	0.885368	3.901090
1	0	-0.386610	1.182540	3.259888
1	0	0.073221	0.725326	4.916765
1	0	1.163198	1.711533	3.927154
6	0	2.353036	-0.708260	4.253974
1	0	2.020997	-1.015422	5.251351
1	0	2.959297	-1.509380	3.827267
1	0	2.986355	0.176045	4.368046
6	0	0.859968	-2.945444	3.111197
1	0	1.126047	-3.221234	4.136084
1	0	0.167289	-3.699525	2.727052
1	0	1.765331	-2.969772	2.497934
6	0	-1.107966	-1.585934	3.882587
1	0	-1.723269	-2.440645	3.587685
1	0	-0.883528	-1.686010	4.949861
1	0	-1.693507	-0.677819	3.730981
8	0	-2.709679	0.004518	-0.608335
6	0	-3.118256	-0.995142	-1.202780
7	0	-4.427712	-1.372064	-1.268294
1	0	-4.619411	-2.205437	-1.808184
6	0	-2.131809	-1.951524	-1.884284
1	0	-2.624254	-2.506691	-2.691552
6	0	-5.571395	-0.778729	-0.672496
6	0	-6.807886	-1.397452	-0.918019
6	0	-5.512572	0.368367	0.132819
6	0	-7.976413	-0.878297	-0.363977
1	0	-6.855451	-2.286571	-1.543377
6	0	-6.693943	0.875951	0.681302
1	0	-4.560608	0.844602	0.319976
6	0	-7.925803	0.263715	0.441175
1	0	-8.925084	-1.367714	-0.562587
1	0	-6.643520	1.763727	1.305240
1	0	-8.834977	0.669316	0.873760
15	0	0.484085	2.212096	-0.324878
8	0	1.827761	3.121557	-0.125530
8	0	-0.239192	2.968782	-1.588071
8	0	-0.440859	2.696224	0.934455
6	0	1.599652	4.556287	0.024088
6	0	-0.436954	4.407716	-1.439805
6	0	-0.653539	4.136149	1.048658
6	0	0.097313	4.869942	-0.074451
1	0	2.166785	5.055776	-0.767244
1	0	2.007697	4.848152	0.996681
1	0	0.091479	4.895275	-2.264834

1	0	-1.510037	4.597217	-1.538463
1	0	-1.732568	4.308639	0.992202
1	0	-0.291998	4.438447	2.036342
1	0	-0.056171	5.949910	0.030575
15	0	2.845759	-0.607029	-0.846207
8	0	3.326374	-2.016428	-0.176246
8	0	3.432461	-0.749083	-2.366932
8	0	3.859019	0.472417	-0.186794
6	0	4.744642	-2.335372	-0.352892
6	0	4.878366	-0.963360	-2.455387
6	0	5.274222	0.113285	-0.223118
6	0	5.464855	-1.168875	-1.048644
1	0	4.798655	-3.255178	-0.943164
1	0	5.153221	-2.522454	0.644027
1	0	5.025393	-1.843017	-3.088099
1	0	5.310388	-0.087752	-2.949075
1	0	5.801765	0.962792	-0.665474
1	0	5.604010	-0.016897	0.812175
1	0	6.533506	-1.397783	-1.129462
45	0	0.703608	-0.119253	-0.875513
1	0	-0.999896	-0.117450	-2.085949
6	0	0.340232	-1.877897	-1.990030
1	0	1.134187	-1.981102	-2.731184
6	0	-0.073243	-3.175919	-1.303614
1	0	0.588245	-3.464261	-0.482085
1	0	-0.029682	-3.985649	-2.047804
6	0	-1.524338	-2.941889	-0.844000
1	0	-1.521775	-2.476993	0.144198
1	0	-2.102328	-3.868545	-0.782719
6	0	-0.920209	-1.185632	-2.471345
1	0	-0.956585	-1.047251	-3.556852

TS12

5	0	0.141566	-0.309579	0.898054
8	0	-1.024363	-0.974512	1.131377
8	0	0.806476	0.078423	2.022760
6	0	-1.081032	-1.253544	2.583491
6	0	-0.089317	-0.169730	3.167464
6	0	-0.762164	1.166820	3.495969
1	0	-1.349062	1.542985	2.654443
1	0	-1.415140	1.074336	4.368850
1	0	0.012242	1.904047	3.725642
6	0	0.763220	-0.638811	4.342376
1	0	0.130980	-0.887424	5.201389
1	0	1.365322	-1.512692	4.087238
1	0	1.440803	0.164715	4.644514
6	0	-0.594749	-2.695302	2.768200
1	0	-0.642288	-2.996745	3.818837
1	0	-1.241252	-3.367660	2.196815
1	0	0.432097	-2.825227	2.414407
6	0	-2.531548	-1.114485	3.033600

1	0	-3.141575	-1.890183	2.562162
1	0	-2.608961	-1.241326	4.118685
1	0	-2.950426	-0.144027	2.763511
8	0	-2.758127	0.672115	-1.487682
6	0	-2.991981	-0.526734	-1.623351
7	0	-4.170549	-1.128299	-1.284826
1	0	-4.222844	-2.124644	-1.450427
6	0	-1.960232	-1.480749	-2.245520
1	0	-2.372271	-1.783911	-3.221836
6	0	-5.348518	-0.561810	-0.732318
6	0	-6.411476	-1.441260	-0.468573
6	0	-5.490286	0.806095	-0.454726
6	0	-7.605763	-0.961809	0.066308
1	0	-6.305311	-2.501897	-0.687427
6	0	-6.695024	1.270729	0.081231
1	0	-4.674436	1.484459	-0.660281
6	0	-7.754510	0.400213	0.345511
1	0	-8.419496	-1.653777	0.261524
1	0	-6.800842	2.331434	0.290013
1	0	-8.684905	0.776032	0.759444
6	0	0.426592	-1.748196	-2.329166
1	0	1.332076	-1.743715	-2.932310
45	0	0.866066	0.005993	-0.977916
1	0	-0.625687	0.476156	-1.433222
6	0	-0.623398	-0.839000	-2.568762
1	0	-0.575150	-0.083416	-3.349117
15	0	1.098734	2.197465	-0.375586
8	0	1.149738	3.069454	-1.759817
8	0	-0.084022	2.946223	0.459569
8	0	2.443391	2.708935	0.389505
6	0	1.331794	4.510216	-1.588553
6	0	0.048420	4.397283	0.569770
6	0	2.546027	4.153341	0.580895
6	0	1.357530	4.859611	-0.091451
1	0	0.498949	4.997896	-2.103247
1	0	2.269494	4.782272	-2.082631
1	0	-0.827673	4.838115	0.084786
1	0	0.030237	4.639976	1.636344
1	0	2.567412	4.337716	1.659447
1	0	3.499718	4.464622	0.144822
1	0	1.461863	5.944016	0.027473
15	0	2.935762	-0.977229	-0.381882
8	0	2.843135	-2.402110	0.428172
8	0	3.819501	-1.414431	-1.695741
8	0	4.032724	-0.153711	0.496931
6	0	4.117385	-3.080236	0.657757
6	0	5.106232	-2.045981	-1.410998
6	0	5.274297	-0.858439	0.795020
6	0	5.275719	-2.232458	0.106330
1	0	4.059918	-4.054692	0.162705
1	0	4.211640	-3.231878	1.737175

1	0	5.114600	-3.004388	-1.938569
1	0	5.887066	-1.401628	-1.826461
1	0	6.093312	-0.227245	0.437879
1	0	5.341807	-0.952525	1.883283
1	0	6.225241	-2.741570	0.306488
6	0	-1.592617	-2.751176	-1.421420
1	0	-2.248831	-3.595984	-1.650971
1	0	-1.678692	-2.524910	-0.359193
6	0	-0.117461	-3.060389	-1.782874
1	0	0.452294	-3.451524	-0.935303
1	0	-0.057121	-3.811282	-2.582956

TS13

5	0	-2.269375	0.823105	-0.173039
8	0	-2.899727	0.830931	-1.392294
8	0	-3.130245	0.997749	0.880163
6	0	-4.347685	0.796103	-1.147652
6	0	-4.450028	1.337958	0.332620
6	0	-4.588085	2.862208	0.423523
1	0	-3.832272	3.374194	-0.178716
1	0	-5.575788	3.194088	0.089554
1	0	-4.458334	3.169302	1.465218
6	0	-5.512817	0.664905	1.198067
1	0	-6.513706	0.841577	0.789783
1	0	-5.352548	-0.412374	1.272986
1	0	-5.482628	1.085671	2.207557
6	0	-4.785518	-0.666332	-1.296496
1	0	-5.867200	-0.773584	-1.169583
1	0	-4.524467	-1.012263	-2.300816
1	0	-4.280137	-1.313496	-0.574558
6	0	-5.031531	1.660054	-2.204581
1	0	-4.871826	1.222048	-3.194276
1	0	-6.111486	1.707270	-2.027638
1	0	-4.636148	2.677358	-2.218790
8	0	2.079391	0.878196	-0.077292
6	0	2.659686	1.966697	-0.269040
7	0	4.012195	2.059748	-0.289566
1	0	4.377465	2.988752	-0.454618
6	0	1.906730	3.275497	-0.458827
1	0	2.550140	3.980654	-0.997346
6	0	5.008940	1.066420	-0.084633
6	0	6.342580	1.505545	-0.109746
6	0	4.722621	-0.290429	0.127955
6	0	7.384671	0.600111	0.078264
1	0	6.565150	2.557558	-0.274874
6	0	5.780462	-1.185101	0.315534
1	0	3.698531	-0.634381	0.144747
6	0	7.108269	-0.753553	0.293163
1	0	8.410708	0.954363	0.057695
1	0	5.554968	-2.234539	0.481950
1	0	7.918544	-1.460490	0.441208

15	0	-0.464601	-1.011137	1.624165
8	0	-1.758208	-1.989185	1.653486
8	0	0.752151	-2.036161	1.979658
8	0	-0.601520	-0.161596	3.003796
6	0	-1.866477	-2.829475	2.848693
6	0	0.610430	-2.742178	3.255907
6	0	-0.879717	-0.957395	4.200636
6	0	-0.772518	-2.452857	3.862047
1	0	-1.776000	-3.870066	2.522804
1	0	-2.867851	-2.662491	3.254224
1	0	0.743688	-3.805518	3.038869
1	0	1.419460	-2.403186	3.909884
1	0	-0.144955	-0.657293	4.952384
1	0	-1.882766	-0.687625	4.544080
1	0	-0.903865	-3.044633	4.775068
15	0	-0.057298	-1.186344	-1.391600
8	0	-1.310072	-2.190493	-1.614086
8	0	0.129309	-0.486581	-2.846806
8	0	1.208307	-2.209016	-1.336071
6	0	-1.151697	-3.128027	-2.729741
6	0	0.187420	-1.410065	-3.981731
6	0	1.351890	-3.075268	-2.509708
6	0	0.170030	-2.858239	-3.468587
1	0	-2.016385	-2.984125	-3.383219
1	0	-1.180881	-4.136691	-2.307355
1	0	-0.674589	-1.192092	-4.618881
1	0	1.108142	-1.183225	-4.526176
1	0	2.307370	-2.826962	-2.981013
1	0	1.388811	-4.102743	-2.137221
1	0	0.257136	-3.546379	-4.317167
45	0	-0.230522	0.488434	0.028780
6	0	0.563775	3.070681	-1.187317
1	0	0.250216	4.039933	-1.598030
1	0	0.646910	2.388868	-2.040069
6	0	-0.441885	2.621863	-0.087851
1	0	-1.416965	3.070643	-0.265432
6	0	0.160902	3.109432	1.272959
1	0	0.388984	2.293054	1.969770
1	0	-0.549546	3.752309	1.803175
6	0	1.462101	3.863117	0.910442
1	0	2.232699	3.786328	1.684638
1	0	1.254496	4.928314	0.760947

TS14

5	0	2.065895	0.453081	-0.862853
8	0	2.537163	0.481001	-2.152293
8	0	2.971831	0.897944	0.058427
6	0	3.808460	1.223572	-2.141221
6	0	4.255512	1.090619	-0.631268
6	0	5.098907	-0.157542	-0.346451
1	0	4.620367	-1.063816	-0.727243

1	0	6.095701	-0.073565	-0.789845
1	0	5.214372	-0.265120	0.735870
6	0	4.929979	2.328153	-0.045145
1	0	5.866432	2.543998	-0.570648
1	0	4.286292	3.207606	-0.104197
1	0	5.167746	2.150220	1.007632
6	0	3.473792	2.659845	-2.560289
1	0	4.375124	3.276914	-2.623569
1	0	3.005314	2.641409	-3.548590
1	0	2.775345	3.128860	-1.861601
6	0	4.747887	0.578867	-3.156436
1	0	4.336508	0.695583	-4.163319
1	0	5.729038	1.065213	-3.136723
1	0	4.885116	-0.487496	-2.966954
8	0	-2.145594	-0.761341	-0.441367
6	0	-2.637007	-0.715901	-1.582770
7	0	-3.939317	-0.435140	-1.825790
1	0	-4.212864	-0.432936	-2.799721
6	0	-1.796130	-1.086374	-2.806136
1	0	-2.225855	-0.658438	-3.717336
6	0	-5.002989	-0.171934	-0.917433
6	0	-6.253162	0.120749	-1.484492
6	0	-4.854108	-0.204547	0.476219
6	0	-7.351142	0.379622	-0.666248
1	0	-6.368327	0.144555	-2.566129
6	0	-5.965956	0.056005	1.282232
1	0	-3.891118	-0.425556	0.913287
6	0	-7.212625	0.348056	0.724616
1	0	-8.313094	0.602897	-1.117240
1	0	-5.849718	0.024722	2.361719
1	0	-8.067301	0.545639	1.363901
15	0	1.021040	-1.701695	1.133449
8	0	1.449699	-1.162269	2.611039
8	0	-0.025887	-2.908093	1.508176
8	0	2.346667	-2.560962	0.685763
6	0	1.960435	-2.167279	3.534996
6	0	0.451566	-3.879014	2.487941
6	0	2.794571	-3.575095	1.634757
6	0	1.902033	-3.558674	2.885653
1	0	1.342277	-2.117181	4.436507
1	0	2.986880	-1.884369	3.788930
1	0	-0.221576	-3.831568	3.349594
1	0	0.370973	-4.867588	2.025519
1	0	2.750830	-4.541483	1.122616
1	0	3.835940	-3.348134	1.882671
1	0	2.259186	-4.310885	3.598095
15	0	-0.173679	1.694831	0.787978
8	0	0.472093	3.077980	0.191487
8	0	-1.755380	2.100658	0.900739
8	0	0.295399	1.739571	2.348009
6	0	0.151391	4.293936	0.932146

6	0	-2.041570	3.311999	1.662789
6	0	0.015373	2.979419	3.062784
6	0	-0.732088	3.958313	2.144000
1	0	-0.357759	4.970228	0.238383
1	0	1.099786	4.744349	1.240915
1	0	-2.600860	3.981329	1.002063
1	0	-2.680592	3.024967	2.503671
1	0	-0.581143	2.715284	3.941311
1	0	0.975989	3.388341	3.391122
1	0	-0.959413	4.877792	2.695227
45	0	0.174852	-0.210668	-0.466055
6	0	-0.311317	-0.695517	-2.653418
1	0	-0.333815	0.694171	-1.704918
6	0	0.386448	-1.778151	-2.062873
1	0	1.454929	-1.892311	-2.205015
6	0	-0.515846	-3.006676	-1.956873
1	0	-0.843057	-3.209196	-0.933740
1	0	0.010302	-3.898892	-2.311648
6	0	-1.711978	-2.645865	-2.871398
1	0	-2.646763	-3.133249	-2.577415
1	0	-1.495867	-2.936117	-3.905296
1	0	0.161140	-0.038017	-3.375953

TS15

5	0	0.831918	-1.736529	0.252115
8	0	-0.007654	-1.903440	1.323000
8	0	1.936633	-2.537989	0.275929
6	0	0.766587	-2.609206	2.359679
6	0	1.886531	-3.345851	1.507816
6	0	3.281038	-3.324262	2.132005
1	0	3.639219	-2.305437	2.286213
1	0	3.281654	-3.849112	3.092977
1	0	3.983885	-3.838023	1.469396
6	0	1.529802	-4.778815	1.099086
1	0	1.570906	-5.452789	1.960071
1	0	0.532573	-4.855397	0.660333
1	0	2.254640	-5.127668	0.358227
6	0	-0.186886	-3.531450	3.114650
1	0	0.354424	-4.108471	3.871853
1	0	-0.944730	-2.932018	3.626793
1	0	-0.698297	-4.228725	2.448889
6	0	1.312845	-1.529739	3.301907
1	0	0.472147	-0.959061	3.705790
1	0	1.860804	-1.972538	4.139046
1	0	1.976122	-0.833603	2.781188
8	0	-3.373535	0.491177	-0.123051
6	0	-3.695316	-0.413276	-0.891675
7	0	-4.983726	-0.768716	-1.174397
1	0	-5.099687	-1.519377	-1.842122
6	0	-2.635107	-1.271606	-1.594735
1	0	-2.988163	-1.552612	-2.596030

6	0	-6.199699	-0.244472	-0.662700
6	0	-7.389333	-0.794733	-1.166857
6	0	-6.255049	0.771542	0.302914
6	0	-8.624391	-0.336839	-0.712047
1	0	-7.348401	-1.582613	-1.916271
6	0	-7.502045	1.219094	0.748853
1	0	-5.339826	1.196088	0.690349
6	0	-8.687761	0.675114	0.250767
1	0	-9.535502	-0.772054	-1.111373
1	0	-7.539596	2.005264	1.497420
1	0	-9.648784	1.033079	0.606481
6	0	-0.153696	-1.544017	-1.599461
1	0	0.538631	-1.593720	-2.438032
45	0	0.674974	0.186089	-0.543148
1	0	-1.322776	0.261243	-0.922909
6	0	-1.292083	-0.522603	-1.760050
1	0	-1.236468	0.053705	-2.685467
15	0	0.753765	2.304976	0.420924
8	0	0.311672	3.557615	-0.524771
8	0	-0.321568	2.381049	1.641371
8	0	2.112736	2.866918	1.129501
6	0	0.223287	4.852434	0.150894
6	0	-0.467390	3.692423	2.270739
6	0	1.962934	4.147148	1.822388
6	0	0.531046	4.682531	1.648061
1	0	-0.790401	5.228304	-0.013596
1	0	0.939792	5.520253	-0.336590
1	0	-1.503037	4.010168	2.118939
1	0	-0.285805	3.553675	3.340338
1	0	2.202220	3.973774	2.875829
1	0	2.702100	4.829118	1.392139
1	0	0.443844	5.652709	2.150095
15	0	2.839072	0.157602	-0.958818
8	0	3.279619	-0.941313	-2.077344
8	0	3.354254	1.549046	-1.640412
8	0	3.931139	-0.067127	0.225595
6	0	4.702782	-0.954975	-2.412026
6	0	4.740043	1.537669	-2.106987
6	0	5.330255	0.029647	-0.189142
6	0	5.415441	0.214037	-1.712783
1	0	4.770293	-0.876403	-3.500651
1	0	5.103388	-1.922325	-2.093970
1	0	4.720077	1.674367	-3.192468
1	0	5.235517	2.396239	-1.644946
1	0	5.769899	0.876623	0.346295
1	0	5.818939	-0.894286	0.132801
1	0	6.467449	0.235680	-2.019092
6	0	-2.255321	-2.554739	-0.815746
1	0	-2.982605	-3.360582	-0.952811
1	0	-2.183728	-2.332800	0.253062
6	0	-0.872808	-2.908000	-1.377874

```
1        0      -0.331330   -3.636052   -0.775877
1        0      -0.979919   -3.353464   -2.376677
```