DFT studies on reactions of boroles with carbon monoxide

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Supporting Information

Contents:

Table S1 Comparison of results from single-point energy calculations (based on the PCM-optimized structures) using different solvation methods with 6-311++G basis set– relative Free energies (kcal/mol) calculated for selected species.**

species	PCM	CPCM	COSMO	SMD
2* **1c** + 2* CO	0.0	0.0	0.0	0.0
1cAD + **1c** + CO	-8.0	-7.3	-7.5	-11.2
TS[1cAD-2c] + **1c** + CO	13.1	13.1	12.8	8.8
2c + **1c** + CO	6.5	6.4	6.3	2.4
TS[1cAD-4c] + **1c** + CO	15.7	15.6	15.7	12.0
4c + **1c** + CO	-5.0	-5.1	-5.7	-8.9
TS[4c-1cKD] + **1c** + CO	11.5	11.5	11.4	7.5
1cKD + **1c** + CO	-16.8	-16.8	-17.1	-20.8
TS[2-2cA]	25.7	25.7	26.4	20.0
2cA	1.2	1.1	1.7	5.0
TS[2cA-3c]	8.3	8.2	9.1	2.5
3c	-27.4	-27.5	-26.0	-33.2
TS[3c-1cTB]	-12.7	-12.5	-10.8	-17.9
1cTB	-50.0	-49.8	-48.2	-55.2

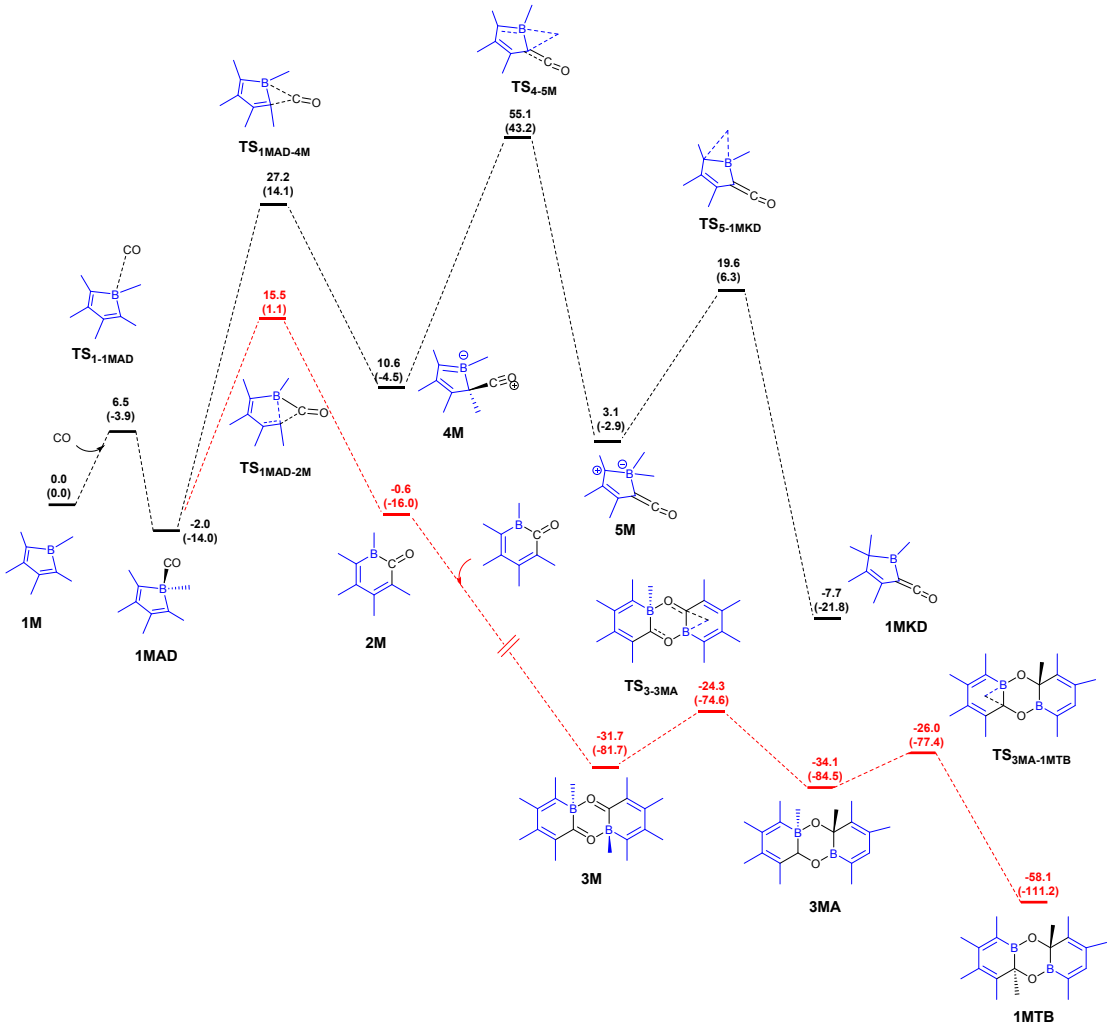

Figure S1. Free energy profiles calculated for the pathways leading to the formation of Lewis acid-base adduct **1MAD**, tricyclic boracycle **1MTB** and ketene derivative **1MKD**, in the reaction of the model borole **1M** with CO. The relative free energies and electronic energies (in parentheses) are given in kcal/mol.

Additional comments on Figure S1:

(1) The energy profiles in Figure S1 are very similar to those presented in Figure 1, but some minor differences can be found such as: 1), the reaction free energies of the simple Lewis acid-base adduct **1MAD**, tricyclic boracycle **1MTB** and the ketene derivative **1MKD** are smaller; 2) the last two consecutive 1,2-Me migrations from **3M** to **1MTB**; and 3) the transition states for methyl migrations lie higher in energy due to the unfavourable 1,2-Me migrations.

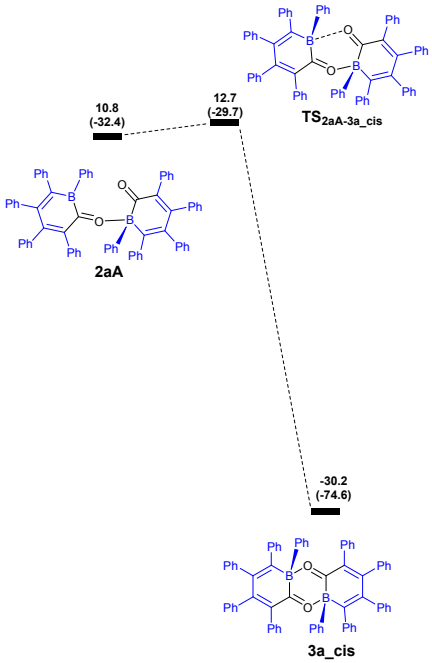

Figure S2. Free energy profile calculated for **2aA** → **3a_cis**. **3a_cis** is a *cis* isomer of **3a** (discussed in the main text).The relative free energies and electronic energies (in parentheses) are given in kcal/mol.

Cartesian coordinates for all of the calculated structures

10
1H E(RM062X) = -180.126454339
6 -1.254688 0.349084 -0.000131
6 -0.758089 -0.896995 0.000087
6 0.758091 -0.897000 -0.000014
6 1.254686 0.349079 -0.000094
5 -0.000003 1.314686 0.000040
1 2.315673 0.571531 -0.000048
1 1.326937 -1.823738 0.000143
1 -1.326946 -1.823727 0.000230
1 -2.315677 0.571519 -0.000174
1 0.000026 2.505977 0.000563
2
CO E(RM062X) = -113.269737843
6 0.000000 0.000000 -0.646464
8 0.000000 0.000000 0.484848
12
1HAD E(RM062X) = -293.434266865
5 0.266685 0.000313 0.930047
6 -0.556000 -1.248051 0.315094
6 -1.579466 -0.737588 -0.399374
6 -1.579955 0.737052 -0.399438
6 -0.556603 1.248143 0.314757
6 1.567928 0.000221 0.058119
8 2.462490 0.000023 -0.634805
1 0.604625 0.000409 2.085647
1 -0.365713 -2.311055 0.422318
1 -2.340025 -1.317238 -0.918047
1 -2.340821 1.316197 -0.918257
1 -0.366835 2.311270 0.421590
12
TS[1HAD,2H]
E(RM062X) = -293.401404068
5 0.120511 -1.054829 0.625951
8 2.312434 -0.088131 -0.513138
6 1.234702 -0.286613 -0.041957
6 0.337919 0.996039 0.404758
6 -0.942740 1.204795 0.028476
6 -1.789279 0.071162 -0.356683
6 -1.261627 -1.137824 -0.097854
1 0.307587 -1.295703 1.778918
1 -1.758737 -2.060781 -0.382059
1 -2.749597 0.238682 -0.834861
1 -1.355564 2.211975 0.040731
1 0.980431 1.799665 0.752179
12
2H E(RM062X) = -293.428247486
5 0.174218 -1.415772 0.000054
8 2.329240 -0.167416 -0.000059
6 1.105326 -0.096036 0.000191
6 0.435921 1.228359 0.000013
6 -0.906045 1.294846 -0.000003
6 -1.782639 0.107390 -0.000057
6 -1.341202 -1.173005 0.000100
1 0.698844 -2.483836 -0.000816
1 -2.081984 -1.968791 0.000096
1 -2.850372 0.321197 -0.000225
1 -1.399948 2.262668 -0.000160
1 1.060290 2.117628 -0.000152
24
3H E(RM062X) = -586.975477408
6 2.423355 1.456646 0.089870
6 3.576526 0.727981 -0.037461
6 3.653302 -0.709053 -0.122705
6 2.533146 -1.472026 -0.035120
5 1.172746 -0.779531 0.333829
6 1.166842 0.781762 0.078862
8 0.096116 1.501802 -0.006173
6 -2.423372 -1.456586 -0.090531
6 -3.576529 -0.727956 0.037264
6 -3.653264 0.708993 0.122952
6 -2.533138 1.472110 0.035534
5 -1.172829 0.779536 -0.333158
6 -1.166775 -0.781733 -0.078852
8 -0.096049 -1.501836 0.005948
1 -2.442585 -2.542591 -0.076278
1 -4.512367 -1.278863 0.106560
1 -4.638032 1.144610 0.268487
1 -2.638978 2.555266 0.095754
1 -1.283848 0.678271 -1.565941
1 1.283543 -0.678926 1.566556
1 2.442385 2.542654 0.074780
1 4.512348 1.278841 -0.107351
1 4.638117 -1.144606 -0.268084
1 2.638732 -2.555244 -0.094919
24
TS[3,1HTB] E(RM062X) = -586.972387729
6 -2.433392 -1.434275 0.070121
6 -3.600933 -0.726243 -0.005822
6 -3.665050 0.704166 -0.061842
6 -2.535351 1.470770 -0.036652
5 -1.168525 0.780244 0.121276
6 -1.165830 -0.762316 0.032062
8 -0.075714 -1.500623 0.055147
6 2.421838 1.457408 -0.015637
6 3.582455 0.727299 0.076209
6 3.664652 -0.705635 0.091406
6 2.541329 -1.468678 -0.007569
5 1.166541 -0.778729 -0.307103
6 1.176459 0.781135 -0.049164
8 0.091832 1.510045 -0.009103
1 2.438954 2.542511 0.030091
1 4.516173 1.279677 0.159588
1 4.652023 -1.146013 0.199294
1 2.653061 -2.552935 0.005894
1 1.273120 -0.623763 -1.544339
1 -1.307137 0.243854 1.300968
1 -2.432539 -2.520535 0.085496
1 -4.536264 -1.279426 -0.021437
1 -4.650181 1.158396 -0.130950
1 -2.643299 2.553486 -0.082480
24
1HTB E(RM062X) = -587.033353823
6 -2.448376 -1.416452 0.069511
6 -3.528290 -0.730737 -0.332743
6 -3.545677 0.735041 -0.453317
6 -2.467373 1.518675 -0.230286
5 -1.143745 0.824055 0.161179
6 -1.215735 -0.717485 0.548139
8 -0.042828 -1.477733 0.200083
6 2.448442 1.416488 0.069903
6 3.528348 0.730784 -0.332506
6 3.545626 -0.734938 -0.453454
6 2.467348 -1.518687 -0.230575
5 1.143706 -0.824136 0.160811
6 1.215829 0.717409 0.547697
8 0.042779 1.477781 0.199344
1 2.458568 2.502900 0.124243
1 4.434992 1.264376 -0.602584
1 4.487959 -1.172682 -0.780270
1 2.550956 -2.589038 -0.406887
1 -2.458339 -2.502886 0.123468
1 -4.434820 -1.264345 -0.603181
1 -4.487975 1.172793 -0.780228
1 -2.550816 2.589047 -0.406549
1 -1.282650 -0.718064 1.656346
1 1.281865 0.717337 1.656065
12

TS[1HAD,4H] E(RM062X) = -293.390644583
5 -0.241156 1.214731 0.664410
8 2.007469 0.020385 -0.832132
6 1.202746 0.006751 -0.007433
6 -1.267534 0.947802 -0.367824
6 -1.460683 -0.466982 -0.529719
6 -0.632133 -1.224802 0.252705
6 0.261137 -0.311034 1.028705
1 0.749783 -0.587209 1.961539
1 0.248788 2.194075 1.133633
1 -1.862405 1.642230 -0.954459
1 -2.153783 -0.905841 -1.242779
1 -0.457552 -2.290411 0.178469
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4H E(RM062X) = -293.391622511
5 -0.454179 1.312641 0.439333
8 2.112150 0.050775 -0.798187
6 1.327539 0.011090 0.035613
6 -1.501230 0.772467 -0.431630
6 -1.443521 -0.664093 -0.440593
6 -0.471934 -1.208490 0.352401
6 0.309434 -0.079798 0.986790
1 0.665702 -0.099886 2.016941
1 -0.055494 2.390261 0.754031
1 -2.280166 1.284909 -0.987833
1 -2.108883 -1.287980 -1.034495
1 -0.169195 -2.243755 0.424700
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TS[4,5H] E(RM062X) = -293.374564820
8 2.776306 0.019380 -0.218604
5 -0.546371 1.333883 0.069222
6 0.338666 -0.070912 0.269650
6 -0.546185 -1.181387 0.074749
6 -1.822316 -0.693221 -0.138916
6 -1.888301 0.718543 -0.147535
6 1.656024 -0.050701 0.023851
1 -0.079183 0.767272 1.224394
1 -2.686112 -1.347463 -0.220478
1 -0.260733 -2.211752 0.238012
1 -2.834922 1.226092 -0.310383
1 -0.044969 2.407468 -0.019617
12
5H E(RM062X) = -293.411546382
8 2.847103 0.011956 -0.000366
5 -0.598412 1.352843 0.000234
6 0.362132 0.001644 0.000508
6 -0.451635 -1.127945 0.000224
6 -1.831913 -0.785307 -0.000184
6 -1.985501 0.578860 -0.000214
6 1.698866 -0.042015 0.000074
1 -0.428359 2.025060 0.996897
1 -2.617644 -1.533211 -0.000556
1 -0.081639 -2.149855 0.000425
1 -2.980497 1.022090 -0.000619
1 -0.428326 2.024626 -0.996840
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TS[5,1HKD] E(RM062X) = -293.404308157
8 2.849452 0.019909 0.002133
5 -0.569828 1.312195 -0.013767
6 0.366234 0.006806 -0.023769
6 -0.473437 -1.140596 -0.004522
6 -1.813874 -0.783139 -0.014609
6 -1.947807 0.617707 -0.089043
6 1.697227 -0.022661 -0.006702
1 -1.007819 1.375333 1.178606
1 -2.625683 -1.495570 0.074978
1 -0.105993 -2.158647 0.077185
1 -2.923299 1.096625 -0.037300
1 -0.253747 2.393309 -0.409833
12
1HKD E(RM062X) = -293.446978176
8 2.878931 0.044508 0.000045
5 -0.428367 1.250414 0.000004
6 0.398384 -0.040076 -0.000148
6 -0.542717 -1.184579 -0.000015
6 -1.812968 -0.756742 0.000115
6 -1.933897 0.748652 -0.000041
6 1.722531 -0.030038 -0.000007
1 -0.015382 2.365553 0.000355
1 -2.488471 1.123333 0.872667
1 -2.668267 -1.424848 0.000164
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1 -2.488300 1.123174 -0.872950
60
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6 1.263264 0.357689 -0.009413
6 0.742084 -0.893205 -0.007243
6 -0.784246 -0.859243 -0.023950
6 -1.250238 0.412786 -0.026207
6 2.701149 0.695266 -0.027559
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6 4.561768 1.980481 0.864770
6 5.426406 1.386949 -0.052580
6 4.930384 0.452407 -0.961358
6 3.582210 0.109033 -0.947978
6 1.501826 -2.161739 0.020627
6 2.504623 -2.357489 0.979578
6 3.236170 -3.540168 1.007081
6 2.984134 -4.540393 0.069236
6 1.990024 -4.355099 -0.889912
6 1.246019 -3.178749 -0.908217
6 -1.599111 -2.093264 -0.032333
6 -1.386591 -3.103800 0.914534
6 -2.182618 -4.245819 0.918699
6 -3.186725 -4.402964 -0.035087
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6 -2.612565 -2.259874 -0.985010
6 -2.670887 0.815523 0.000744
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6 -4.906708 0.665474 0.939433
6 -5.358405 1.642414 0.052425
6 -4.468383 2.209716 -0.857186
6 -3.136415 1.804845 -0.877337
6 0.065629 2.899314 -0.001690
6 1.092300 3.606637 -0.656264
6 1.118848 4.997551 -0.661672
6 0.137562 5.712798 0.024410
6 -0.879321 5.035953 0.697679
6 -0.923522 3.645796 0.666648
1 -2.779547 -1.478202 -1.720581
1 -4.173701 -3.528044 -1.738364
1 -3.801546 -5.297522 -0.036206
1 -2.015648 -5.015739 1.665466
1 -0.600514 -2.987753 1.655279
1 1.790443 -5.129634 -1.623872
1 3.558756 -5.461170 0.087096
1 4.005190 -3.680586 1.760203
1 2.703618 -1.572857 1.703883
1 0.467436 -3.041194 -1.653124
1 -3.227887 -0.504449 1.606475
1 -5.592051 0.224471 1.657057
1 -6.395784 1.961712 0.073884
1 -4.810405 2.972398 -1.550265
1 -2.441369 2.256078 -1.580454
1 -1.730249 3.126309 1.176318
1 -1.641573 5.592971 1.233601
1 0.165390 6.798401 0.034697
1 1.872291 3.056485 -1.175391
1 1.908944 5.524762 -1.187264
1 2.535626 2.114553 1.580671
1 4.938652 2.710579 1.574598
1 6.478750 1.653525 -0.063406
1 5.596376 -0.008142 -1.684926
1 3.197751 -0.619008 -1.656977
62
TS[1,1aAD] E(RM062X) = -1448.22710608
5 0.655395 1.138022 0.024505
8 0.078939 0.846073 3.383924
6 0.447960 1.160705 2.363326
6 1.286566 -0.326130 0.028567
6 0.245887 -1.192108 -0.078280

6	-1.080094	-0.464180	-0.131032
6	-0.915942	0.879570	-0.038815
6	2.722755	-0.661404	0.053660
6	3.597288	0.097594	0.846310
6	4.961912	-0.174686	0.875443
6	5.485724	-1.204832	0.097350
6	4.633038	-1.955376	-0.711736
6	3.268442	-1.687330	-0.734666
6	0.325508	-2.670439	-0.106729
6	1.001013	-3.354385	0.911959
6	1.081045	-4.743147	0.898988
6	0.493766	-5.467681	-0.137449
6	-0.179775	-4.796129	-1.156256
6	-0.271311	-3.407001	-1.137034
6	-2.375711	-1.167986	-0.270415
6	-2.721651	-2.242779	0.559002
6	-3.957299	-2.870122	0.424037
6	-4.857934	-2.443705	-0.550349
6	-4.519597	-1.380996	-1.386541
6	-3.289983	-0.746769	-1.244855
6	-2.004050	1.873574	0.059057
6	-3.014636	1.729756	1.021373
6	-4.031036	2.672273	1.135722
6	-4.058080	3.779099	0.287933
6	-3.058259	3.936878	-0.669883
6	-2.036406	2.996535	-0.779542
6	1.400247	2.471306	-0.296753
6	2.474372	2.471314	-1.201190
6	3.111907	3.655529	-1.566700
6	2.703871	4.864697	-1.009070
6	1.649225	4.887824	-0.095671
6	1.000592	3.705299	0.244004
1	-3.025856	0.085446	-1.891099
1	-5.214496	-1.044570	-2.149792
1	-5.818366	-2.937916	-0.659028
1	-4.215025	-3.696919	1.078650
1	-2.020894	-2.584198	1.315729
1	-0.640936	-5.354308	-1.965162
1	0.558013	-6.551249	-0.149214
1	1.602388	-5.260588	1.698324
1	1.462931	-2.785341	1.714029
1	-0.806221	-2.885999	-1.926302
1	-2.994680	0.866005	1.680932
1	-4.802165	2.544156	1.889305
1	-4.850661	4.515555	0.376659
1	-3.071283	4.796636	-1.332941
1	-1.255780	3.125048	-1.524124
1	0.169954	3.736581	0.945817
1	1.330666	5.828203	0.344072
1	3.207175	5.787420	-1.282167
1	2.814179	1.530702	-1.627734
1	3.934266	3.632584	-2.275398
1	3.196903	0.913500	1.443099
1	5.616316	0.423234	1.502447
1	6.550350	-1.416373	0.113763
1	5.033893	-2.750129	-1.333776
1	2.614424	-2.271367	-1.375278

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1aAD E(RM062X) = -1448.24369192

5	-0.422468	-1.259431	0.349334
8	-0.155674	-1.255892	3.054938
6	-0.295345	-1.320383	1.932745
6	-1.278565	0.113846	0.234812
6	-0.399185	1.135107	0.032954
6	1.008216	0.652171	-0.028916
6	1.088865	-0.700417	0.098119
6	-2.750594	0.188970	0.268288
6	-3.480337	-0.647976	1.125202
6	-4.871529	-0.623689	1.145185
6	-5.568170	0.226887	0.290250
6	-4.859305	1.045986	-0.587784
6	-3.468910	1.027783	-0.600188
6	-0.749723	2.568395	-0.126616
6	-1.533713	3.215114	0.835554
6	-1.878659	4.554593	0.683746
6	-1.448137	5.264502	-0.436076
6	-0.665355	4.629702	-1.398845
6	-0.312259	3.292402	-1.241838
6	2.160035	1.574666	-0.183626
6	2.290393	2.682162	0.663792
6	3.381418	3.537758	0.550239
6	4.353633	3.305043	-0.421083
6	4.230116	2.209366	-1.273536
6	3.143002	1.347650	-1.154036
6	2.323316	-1.508687	0.163139
6	3.365553	-1.195045	1.048018
6	4.507325	-1.988095	1.109636
6	4.630894	-3.105793	0.284755
6	3.603469	-3.427152	-0.599313
6	2.456603	-2.639043	-0.655053
6	-0.957398	-2.636032	-0.259679
6	-1.846991	-2.625220	-1.342003
6	-2.289400	-3.811178	-1.925861
6	-1.857795	-5.039033	-1.428349
6	-0.976869	-5.072773	-0.348782
6	-0.534413	-3.882826	0.223984
1	3.048496	0.490367	-1.814779
1	4.982373	2.025088	-2.034348
1	5.202306	3.975561	-0.514167
1	3.470664	4.388199	1.219140
1	1.530234	2.869900	1.417212
1	-0.327219	5.177499	-2.273093
1	-1.718863	6.308831	-0.556730
1	-2.483740	5.044854	1.440183
1	-1.872264	2.656006	1.703557
1	0.304018	2.800290	-1.989536
1	3.272263	-0.320747	1.687034
1	5.303409	-1.733415	1.802836
1	5.523324	-3.722172	0.331535
1	3.692244	-4.294087	-1.247090
1	1.655336	-2.889887	-1.343694
1	0.164322	-3.929029	1.058265
1	-0.635192	-6.024589	0.047181
1	-2.207056	-5.964145	-1.877039
1	-2.202394	-1.674393	-1.731665
1	-2.976023	-3.776415	-2.766651
1	-2.952995	-1.330184	1.788074
1	-5.411254	-1.274957	1.825892
1	-6.653406	0.244189	0.299803
1	-5.392548	1.699451	-1.271791
1	-2.927661	1.659675	-1.297686

62

TS[1aAD,2a] E(RM062X) = -1448.21778347

5	0.100831	1.609236	0.520877
8	0.899579	1.205599	3.032311
6	0.634133	1.182990	1.870794
6	1.128345	-0.074179	0.914565
6	0.236874	-0.922049	0.325514
6	-1.163623	-0.449706	0.155898
6	-1.288037	0.899140	0.256277
6	2.602619	-0.192698	0.853846
6	3.388384	-0.241257	2.011485
6	4.775938	-0.321798	1.915360
6	5.393642	-0.344783	0.667359
6	4.618046	-0.283800	-0.490418
6	3.233447	-0.204642	-0.398367
6	0.652888	-2.238583	-0.220193
6	1.475209	-3.089488	0.527078
6	1.867934	-4.320495	0.012885
6	1.453570	-4.710011	-1.259748
6	0.637053	-3.867077	-2.012358
6	0.229745	-2.642804	-1.492337
6	-2.260343	-1.430752	-0.038390
6	-2.351070	-2.552255	0.793579
6	-3.381142	-3.473949	0.630825
6	-4.328400	-3.291552	-0.374824
6	-4.239390	-2.183438	-1.216555
6	-3.212094	-1.259674	-1.050527
6	-2.536220	1.683101	0.357826
6	-3.686254	1.190049	0.996689
6	-4.822582	1.980145	1.117003
6	-4.837729	3.277659	0.603103

6	-3.700474	3.785372	-0.018291
6	-2.557256	2.998314	-0.129884
6	0.978307	2.435270	-0.475281
6	0.640600	2.484464	-1.837124
6	1.436796	3.169669	-2.750852
6	2.592100	3.817709	-2.315654
6	2.947459	3.777575	-0.967871
6	2.146569	3.092469	-0.059625
1	-3.140753	-0.395733	-1.705916
1	-4.970396	-2.040310	-2.006210
1	-5.128861	-4.012726	-0.506295
1	-3.441316	-4.336421	1.287208
1	-1.608884	-2.698920	1.574086
1	0.313241	-4.165637	-3.004350
1	1.764520	-5.668618	-1.663202
1	2.498196	-4.975527	0.605893
1	1.797627	-2.782957	1.517808
1	-0.412158	-1.989768	-2.077381
1	-3.678888	0.188836	1.414970
1	-5.699706	1.584999	1.620174
1	-5.728892	3.890549	0.696320
1	-3.697902	4.797443	-0.410667
1	-1.669600	3.403914	-0.607896
1	2.435393	3.062801	0.989018
1	3.847544	4.280051	-0.627074
1	3.214807	4.353773	-3.025507
1	-0.258114	1.975858	-2.180811
1	1.158702	3.198213	-3.799973
1	2.907277	-0.224203	2.983792
1	5.374546	-0.367746	2.819854
1	6.475040	-0.407300	0.595520
1	5.093394	-0.292655	-1.466464
1	2.624145	-0.142516	-1.296487
62			
2a	E(RM062X) =	-1448.23324131	
6	1.271463	-1.361152	-0.051850
6	1.224108	-0.004795	-0.004112
6	-0.057419	0.779523	-0.014460
6	-1.300192	0.210452	-0.017582
6	2.532254	-2.149045	-0.017404
6	2.814117	-3.059760	-1.042166
6	3.988563	-3.806231	-1.022056
6	4.889343	-3.665739	0.031594
6	4.610598	-2.771236	1.063482
6	3.440642	-2.018014	1.038627
6	2.499707	0.772761	0.053220
6	3.414460	0.695827	-1.000167
6	4.603699	1.418163	-0.956834
6	4.895929	2.216839	0.146537
6	3.992510	2.291251	1.205667
6	2.798733	1.578373	1.156803
6	0.082860	2.268166	-0.017000
6	0.684476	2.924273	-1.095631
6	0.801322	4.310565	-1.099849
6	0.331529	5.055422	-0.019353
6	-0.265853	4.407845	1.059952
6	-0.396993	3.021930	1.057282
6	-2.527842	1.058447	-0.034394
6	-2.805044	1.915078	-1.105894
6	-3.978111	2.664430	-1.130766
6	-4.889141	2.574779	-0.079607
6	-4.621988	1.726365	0.992977
6	-3.454426	0.968171	1.010149
6	-2.723953	-2.158558	0.012387
6	-2.776427	-3.374398	0.721623
6	-3.943477	-4.129909	0.777767
6	-5.077531	-3.708529	0.085977
6	-5.045591	-2.521600	-0.645681
6	-3.889766	-1.748133	-0.664248
1	-0.872624	2.515682	1.892749
1	-0.633095	4.981868	1.905021
1	0.430996	6.136320	-0.019007
1	1.264385	4.809070	-1.945618
1	1.061816	2.344454	-1.933874
1	4.216902	2.907625	2.070595
1	5.823598	2.779326	0.181878
1	5.302871	1.354799	-1.784769
1	3.187852	0.065044	-1.855477
1	2.091184	1.646737	1.978738
1	-2.092623	1.991654	-1.922869
1	-4.180476	3.320452	-1.972003
1	-5.802219	3.161465	-0.097471
1	-5.326802	1.649163	1.815204
1	-3.256258	0.293468	1.839101
1	-3.886462	-0.818871	-1.226567
1	-5.925146	-2.195983	-1.192496
1	-5.984939	-4.304445	0.114531
1	-1.892446	-3.724647	1.243986
1	-3.965446	-5.052661	1.349203
1	2.111274	-3.175491	-1.860868
1	4.197988	-4.501522	-1.829144
1	5.803039	-4.251619	0.049470
1	5.305720	-2.659143	1.889811
1	3.228278	-1.315966	1.840037
5	-1.410703	-1.333822	-0.025702
6	-0.008325	-2.131534	-0.117563
8	0.020095	-3.348478	-0.258275
62			
TS[2,2aA]	E(RM062X) =	-2896.49180335	
6	3.177757	1.651564	0.481869
6	3.595679	0.380553	0.278116
6	3.175360	-0.770591	1.148532
6	2.102172	-0.711529	1.985746
6	3.640257	2.823663	-0.303087
6	3.415585	2.886962	-1.683810
6	3.814103	4.000371	-2.417151
6	4.434281	5.073014	-1.778838
6	4.648910	5.026173	-0.402412
6	4.250989	3.911579	0.332859
6	4.573592	0.081291	-0.810631
6	4.101273	-0.387201	-2.039676
6	4.991420	-0.686464	-3.066993
6	6.362097	-0.520568	-2.872350
6	6.836692	-0.052462	-1.648702
6	5.945626	0.247482	-0.620298
6	4.070661	-1.968262	1.120288
6	4.077712	-2.858320	0.042224
6	4.903680	-3.977714	0.059349
6	5.745029	-4.211618	1.146795
6	5.747527	-3.325394	2.221411
6	4.909998	-2.211827	2.210633
6	1.702346	-1.835771	2.875648
6	1.580600	-3.156167	2.421366
6	1.147813	-4.167089	3.274251
6	0.839023	-3.882735	4.603690
6	0.958059	-2.575378	5.070584
6	1.375366	-1.562877	4.211181
6	-0.205002	0.748601	2.381708
6	-0.733332	1.960355	2.865320
6	-2.059976	2.048589	3.279871
6	-2.902818	0.945077	3.159246
6	-2.413789	-0.253286	2.636860
6	-1.075227	-0.353811	2.273954
1	4.897634	-1.527787	3.054807
1	6.397364	-3.502416	3.072777
1	6.393268	-5.082264	1.157155
1	4.888872	-4.668660	-0.778374
1	3.414468	-2.682639	-0.798919
1	7.902879	0.080117	-1.493509
1	7.057782	-0.753873	-3.672212
1	4.615481	-1.047349	-4.019779
1	3.029722	-0.519008	-2.175260
1	6.312427	0.610441	0.335871
1	1.813402	-3.385221	1.387481
1	1.050859	-5.181057	2.897090
1	0.504623	-4.672641	5.268917
1	0.719121	-2.340675	6.103241
1	1.448808	-0.542409	4.579529
1	-0.692005	-1.299822	1.897740
1	-3.072658	-1.111514	2.537422
1	-3.940638	1.020028	3.472513
1	-0.084535	2.827433	2.935316

1	-2.443187	2.982162	3.681464
1	2.904794	2.063477	-2.173159
1	3.629832	4.034457	-3.486455
1	4.744386	5.942771	-2.349681
1	5.128796	5.859082	0.102277
1	4.415524	3.878643	1.404197
5	1.292429	0.619640	1.987367
6	2.167429	1.893033	1.563523
8	2.054397	2.999426	2.079219
6	-1.177828	-0.931587	-1.141762
6	-2.521261	-1.122179	-1.058540
6	-3.499808	-0.023132	-0.760580
6	-3.140729	1.288512	-0.623037
6	-0.208951	-2.032306	-1.395895
6	-0.163959	-3.178162	-0.595740
6	0.697654	-4.227480	-0.907150
6	1.531676	-4.143815	-2.020269
6	1.515857	-2.993334	-2.808394
6	0.658305	-1.942829	-2.491843
6	-3.066481	-2.498843	-1.266114
6	-3.704860	-3.188769	-0.231025
6	-4.182272	-4.479770	-0.433549
6	-4.040279	-5.090906	-1.678593
6	-3.410776	-4.407508	-2.716754
6	-2.921136	-3.120856	-2.509271
6	-4.928991	-0.436112	-0.609981
6	-5.577194	-0.232750	0.611456
6	-6.906412	-0.611154	0.778915
6	-7.608495	-1.180793	-0.281001
6	-6.973763	-1.373199	-1.507551
6	-5.640055	-1.011720	-1.668642
6	-4.155549	2.356440	-0.388823
6	-5.289260	2.501552	-1.201010
6	-6.183265	3.547938	-0.996402
6	-5.966995	4.467411	0.029495
6	-4.839654	4.340310	0.837516
6	-3.937554	3.302480	0.619565
6	-1.139336	3.114059	-1.120216
6	-1.940932	4.077064	-1.769477
6	-1.464315	5.356568	-2.028459
6	-0.182740	5.723411	-1.612189
6	0.630416	4.795476	-0.965479
6	0.160290	3.504112	-0.746035
1	-5.145480	-1.174295	-2.622165
1	-7.516883	-1.810220	-2.339495
1	-8.646390	-1.471709	-0.153665
1	-7.394756	-0.455053	1.735660
1	-5.030824	0.234104	1.426097
1	-3.296927	-4.876842	-3.688794
1	-4.418723	-6.095568	-1.838116
1	-4.668653	-5.007576	0.380610
1	-3.829502	-2.709368	0.735948
1	-2.417391	-2.590803	-3.313018
1	-5.465718	1.792883	-2.004486
1	-7.050745	3.646450	-1.641800
1	-6.667365	5.280967	0.190526
1	-4.653721	5.056654	1.631998
1	-3.042888	3.224228	1.229037
1	0.811354	2.778014	-0.280600
1	1.634964	5.063257	-0.647173
1	0.180525	6.729752	-1.799311
1	-2.946561	3.817246	-2.085705
1	-2.094096	6.074721	-2.544461
1	-0.822560	-3.256961	0.265095
1	0.715318	-5.112532	-0.277544
1	2.198121	-4.965032	-2.265985
1	2.170734	-2.913809	-3.671152
1	0.640061	-1.051453	-3.113385
5	-1.646165	1.674129	-0.831672
6	-0.616267	0.429248	-0.901607
8	0.598070	0.549928	-0.748997
124			
2aA	E(RM062X) =	-2896.50899513	
6	2.956783	1.700153	0.024096
6	3.654721	0.543267	0.156502
6	3.281803	-0.528267	1.136533
6	2.054022	-0.571531	1.697140
6	3.266504	2.743134	-0.988182
6	3.306764	2.408869	-2.349667
6	3.564938	3.376705	-3.315414
6	3.782557	4.701707	-2.936304
6	3.734258	5.046531	-1.587326
6	3.473325	4.077918	-0.619664
6	4.838818	0.270138	-0.711615
6	4.851202	-0.877718	-1.512195
6	5.921599	-1.135484	-2.362739
6	7.004851	-0.258786	-2.408548
6	7.007886	0.877220	-1.601458
6	5.929398	1.141768	-0.761130
6	4.339218	-1.535603	1.462434
6	4.160620	-2.896881	1.197820
6	5.154962	-3.818593	1.515427
6	6.344317	-3.392433	2.103113
6	6.534769	-2.036976	2.366552
6	5.541035	-1.117429	2.043724
6	1.641994	-1.688190	2.588855
6	0.843711	-2.719798	2.078733
6	0.385897	-3.742158	2.905031
6	0.711792	-3.744450	4.260609
6	1.503091	-2.721216	4.778248
6	1.964130	-1.700665	3.948936
6	-0.209089	0.739671	2.443711
6	-0.142546	1.743012	3.425657
6	-1.039655	1.787011	4.492827
6	-2.039625	0.823047	4.610836
6	-2.140618	-0.177430	3.646502
6	-1.239993	-0.211170	2.583235
1	5.695030	-0.059151	2.241383
1	7.459582	-1.694646	2.821346
1	7.119897	-4.111072	2.349947
1	5.001426	-4.871738	1.299534
1	3.238107	-3.229430	0.729881
1	7.851015	1.560745	-1.627181
1	7.843527	-0.462247	-3.067210
1	5.911806	-2.023557	-2.987658
1	4.007487	-1.562386	-1.471819
1	5.925444	2.033781	-0.140761
1	0.589594	-2.712157	1.019870
1	-0.226429	-4.537934	2.490301
1	0.353636	-4.538869	4.908091
1	1.763314	-2.716412	5.832721
1	2.578697	-0.901871	4.355744
1	-1.328883	-1.022178	1.861007
1	-2.915586	-0.934843	3.725663
1	-2.737309	0.855002	5.442524
1	0.629917	2.500683	3.351579
1	-0.955379	2.574897	5.236209
1	3.139306	1.375330	-2.643656
1	3.593318	3.097542	-4.364425
1	3.984425	5.458842	-3.687780
1	3.901166	6.075800	-1.283758
1	3.429950	4.350839	0.427764
5	0.955119	0.574559	1.343116
6	1.763131	1.926246	0.918420
8	1.455113	3.068751	1.234192
6	-1.321717	-0.847943	-1.361900
6	-2.684298	-1.034610	-1.395893
6	-3.669117	-0.253485	-0.579035
6	-3.301325	0.855891	0.128012
6	-0.301875	-1.733028	-1.993380
6	-0.274827	-3.111798	-1.762094
6	0.746887	-3.894497	-2.293064
6	1.750903	-3.309465	-3.062810
6	1.730137	-1.935588	-3.299311
6	0.713655	-1.152703	-2.761012
6	-3.196149	-2.133595	-2.261741
6	-3.868085	-3.239339	-1.728145
6	-4.294921	-4.267299	-2.561582
6	-4.076338	-4.191234	-3.936528
6	-3.414918	-3.089516	-4.474327
6	-2.964354	-2.071181	-3.639597
6	-5.072045	-0.763497	-0.542004

6	-5.593634	-1.227287	0.669212
6	-6.899067	-1.705253	0.737955
6	-7.699415	-1.714933	-0.402952
6	-7.187981	-1.247824	-1.613150
6	-5.879434	-0.779896	-1.684192
6	-4.205336	1.709539	0.935629
6	-5.537406	1.996509	0.595324
6	-6.295644	2.860057	1.378443
6	-5.748820	3.444719	2.520971
6	-4.424569	3.180929	2.861638
6	-3.658267	2.335791	2.066097
6	-1.433443	2.719360	-0.656625
6	-2.309539	3.826674	-0.617786
6	-1.952271	5.045008	-1.178288
6	-0.716748	5.186840	-1.813624
6	0.159014	4.106860	-1.892530
6	-0.201062	2.893049	-1.320192
1	-5.479025	-0.423543	-2.629474
1	-7.807762	-1.251026	-2.504152
1	-8.718170	-2.085652	-0.349754
1	-7.291365	-2.069070	1.682367
1	-4.967893	-1.207180	1.557620
1	-3.241630	-3.024724	-5.543683
1	-4.419493	-4.989821	-4.586552
1	-4.802986	-5.126824	-2.136367
1	-4.048788	-3.297145	-0.658886
1	-2.433566	-1.218253	-4.053470
1	-5.977287	1.561355	-0.294928
1	-7.319931	3.079609	1.093591
1	-6.349751	4.110323	3.132753
1	-3.978568	3.637810	3.739803
1	-2.615291	2.164088	2.319839
1	0.500760	2.065737	-1.394695
1	1.119340	4.208035	-2.389106
1	-0.440300	6.141209	-2.252355
1	-3.279093	3.733084	-0.141694
1	-2.636336	5.886007	-1.126329
1	-1.053145	-3.570059	-1.158293
1	0.760134	-4.962757	-2.101427
1	2.547325	-3.921147	-3.475246
1	2.511621	-1.471130	-3.893681
1	0.704281	-0.079451	-2.937082
5	-1.829828	1.321749	-0.123914
6	-0.824352	0.138656	-0.419955
8	0.349401	-0.023899	0.009846

124

TS[2aA,3a] E(RM062X) = -2896.50809600

6	3.070075	1.542883	-0.039801
6	3.878901	0.455397	0.083861
6	3.477350	-0.801828	0.794973
6	2.189925	-1.044693	1.129229
6	3.398046	2.721049	-0.886637
6	3.737234	2.535980	-2.235512
6	4.010062	3.621346	-3.062036
6	3.934492	4.919633	-2.557366
6	3.588473	5.116829	-1.222452
6	3.321038	4.029619	-0.392605
6	5.241051	0.468535	-0.531526
6	5.606997	-0.501769	-1.471152
6	6.870741	-0.482183	-2.052921
6	7.793287	0.498485	-1.690296
6	7.440803	1.462694	-0.748361
6	6.171352	1.449435	-0.176674
6	4.562475	-1.788301	1.095888
6	4.529027	-3.089499	0.585388
6	5.539814	-3.998280	0.888437
6	6.598601	-3.620199	1.711648
6	6.641192	-2.325883	2.227493
6	5.632622	-1.417948	1.917699
6	1.756584	-2.344033	1.709400
6	0.937734	-3.189792	0.949992
6	0.461770	-4.385662	1.481662
6	0.786855	-4.750016	2.787385
6	1.596911	-3.911833	3.552461
6	2.079160	-2.719557	3.017702
6	0.049361	0.142011	2.237910
6	0.347441	0.934167	3.360115
6	-0.462755	0.939233	4.493907
6	-1.609602	0.146662	4.539410
6	-1.921883	-0.662253	3.450382
6	-1.097020	-0.666916	2.325183
1	5.672623	-0.406079	2.313612
1	7.461574	-2.022317	2.870725
1	7.386319	-4.328599	1.948611
1	5.500469	-5.003432	0.479588
1	3.703344	-3.385671	-0.055598
1	8.154369	2.227707	-0.458276
1	8.781852	0.509242	-2.138552
1	7.137439	-1.235757	-2.787502
1	4.892162	-1.272221	-1.748071
1	5.891234	2.205642	0.551529
1	0.683104	-2.905849	-0.067931
1	-0.164009	-5.031663	0.871329
1	0.413491	-5.679477	3.206093
1	1.854852	-4.187752	4.570717
1	2.711632	-2.067914	3.614843
1	-1.351171	-1.340410	1.506937
1	-2.799710	-1.301879	3.480043
1	-2.249285	0.157001	5.416755
1	1.226962	1.571145	3.340487
1	-0.205329	1.570243	5.340010
1	3.789742	1.526125	-2.632732
1	4.275268	3.453745	-4.101641
1	4.144468	5.769297	-3.199829
1	3.528175	6.123900	-0.820696
1	3.047766	4.190033	0.642627
5	1.057546	0.094369	0.975633
6	1.753817	1.538889	0.681108
8	1.245417	2.602600	1.021738
6	-1.776623	-0.868908	-1.364071
6	-3.142138	-0.762644	-1.194874
6	-3.810328	0.183846	-0.249674
6	-3.113118	1.180494	0.368414
6	-1.097385	-1.985958	-2.079211
6	-1.371371	-3.323104	-1.769083
6	-0.674554	-4.349409	-2.399320
6	0.306574	-4.051906	-3.344445
6	0.589548	-2.723315	-3.654155
6	-0.105622	-1.696396	-3.021154
6	-3.996905	-1.715643	-1.956022
6	-4.813329	-2.656899	-1.317930
6	-5.566954	-3.551947	-2.069204
6	-5.533726	-3.500445	-3.462260
6	-4.729893	-2.560390	-4.103282
6	-3.953861	-1.681233	-3.354068
6	-5.259344	-0.032081	0.037873
6	-5.647757	-0.398413	1.329880
6	-6.993047	-0.583755	1.635705
6	-7.963744	-0.395208	0.653579
6	-7.583720	-0.024864	-0.635850
6	-6.237857	0.151069	-0.944137
6	-3.655167	2.153343	1.343139
6	-4.935201	2.726403	1.266314
6	-5.338368	3.673817	2.200828
6	-4.482980	4.056317	3.234998
6	-3.208528	3.501182	3.316414
6	-2.793806	2.571111	2.368495
6	-1.179682	2.655736	-0.881097
6	-1.906614	3.861042	-0.790840
6	-1.480053	5.007715	-1.448817
6	-0.321475	4.973665	-2.225319
6	0.405535	3.790528	-2.352041
6	-0.023183	2.649286	-1.688305
1	-5.941395	0.431313	-1.951301
1	-8.336189	0.125004	-1.403523
1	-9.013218	-0.536274	0.891605
1	-7.283114	-0.871812	2.641145
1	-4.885846	-0.526497	2.094482
1	-4.699166	-2.515830	-5.187019
1	-6.131635	-4.192994	-4.045906
1	-6.185525	-4.287454	-1.565393
1	-4.848900	-2.694545	-0.233463

1	-3.311078	-0.959094	-3.849434
1	-5.609185	2.445069	0.464503
1	-6.325949	4.117036	2.120813
1	-4.807218	4.790811	3.965528
1	-2.529299	3.795422	4.110506
1	-1.788904	2.157737	2.423323
1	0.569971	1.741358	-1.780925
1	1.314610	3.765453	-2.944502
1	0.017401	5.871932	-2.733138
1	-2.810254	3.902877	-0.192337
1	-2.046473	5.928693	-1.355819
1	-2.124597	-3.556505	-1.022135
1	-0.893839	-5.382262	-2.147236
1	0.850704	-4.852856	-3.834581
1	1.354174	-2.484640	-4.386386
1	0.120248	-0.659806	-3.258661
5	-1.663420	1.364300	-0.185093
6	-0.943793	0.009906	-0.561943
8	0.233125	-0.367487	-0.295589
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3a	E(RM062X) =	-2896.56827039	
6	2.424502	1.524582	0.270302
6	3.545481	0.734302	0.106327
6	3.530753	-0.739811	-0.034962
6	2.390049	-1.440319	0.199539
6	2.473069	3.009449	0.388599
6	1.788796	3.840304	-0.504539
6	1.832686	5.223828	-0.349878
6	2.553089	5.792499	0.697892
6	3.231336	4.970545	1.596201
6	3.189063	3.588803	1.443323
6	4.869118	1.407466	-0.034293
6	5.106350	2.300191	-1.082617
6	6.342116	2.928571	-1.202825
6	7.345837	2.681744	-0.268248
6	7.112661	1.795761	0.781978
6	5.884002	1.151400	0.891854
6	4.760374	-1.390394	-0.592521
6	5.005098	-1.316946	-1.967017
6	6.129864	-1.921123	-2.523056
6	7.028803	-2.605518	-1.707731
6	6.796653	-2.680663	-0.336093
6	5.670576	-2.075121	0.216440
6	2.260745	-2.904157	0.003753
6	1.350734	-3.376790	-0.954212
6	1.153543	-4.741708	-1.133582
6	1.841172	-5.658418	-0.339977
6	2.733897	-5.200834	0.626669
6	2.945499	-3.834309	0.794928
6	1.245444	-0.664655	2.418079
6	1.477694	0.453925	3.229407
6	1.557083	0.340060	4.618035
6	1.397994	-0.899684	5.230596
6	1.153005	-2.024713	4.444090
6	1.079712	-1.904090	3.058696
1	5.501147	-2.122740	1.288631
1	7.493873	-3.209726	0.306471
1	7.906495	-3.076563	-2.139216
1	6.303484	-1.857995	-3.592960
1	4.303342	-0.781195	-2.602513
1	7.889321	1.602762	1.515242
1	8.307331	3.177320	-0.358573
1	6.519183	3.615541	-2.024332
1	4.316952	2.500664	-1.801658
1	5.701626	0.457389	1.707870
1	0.799148	-2.664483	-1.562838
1	0.444664	-5.088932	-1.879093
1	1.675690	-6.723719	-0.469249
1	3.266883	-5.907833	1.255231
1	3.622840	-3.480377	1.565614
1	0.888071	-2.792090	2.459451
1	1.021355	-2.997189	4.910067
1	1.457822	-0.988977	6.311188
1	1.588100	1.441714	2.787834
1	1.735865	1.226391	5.220235
1	1.226577	3.401066	-1.322945
1	1.297069	5.857964	-1.049719
1	2.583979	6.871164	0.816028
1	3.791179	5.405515	2.418382
1	3.719518	2.945094	2.140466
5	1.122190	-0.652700	0.786074
6	1.145855	0.855092	0.281105
8	0.103435	1.532521	-0.025164
6	-2.474389	-1.373492	0.095209
6	-3.614626	-0.603621	0.059025
6	-3.627759	0.882245	0.027732
6	-2.480288	1.583915	-0.191014
6	-2.453469	-2.864303	0.082529
6	-1.902065	-3.587456	1.145056
6	-1.834866	-4.976767	1.091349
6	-2.311098	-5.658075	-0.027255
6	-2.856718	-4.943509	-1.092219
6	-2.924000	-3.553736	-1.038971
6	-4.931798	-1.303022	0.080788
6	-5.258554	-2.159799	1.135869
6	-6.490027	-2.806461	1.161428
6	-7.398450	-2.619596	0.121691
6	-7.074546	-1.774465	-0.938614
6	-5.852518	-1.109561	-0.953932
6	-4.945836	1.558905	0.237487
6	-5.663914	1.362613	1.421375
6	-6.885565	1.997693	1.624385
6	-7.409097	2.835654	0.641168
6	-6.701305	3.037810	-0.541834
6	-5.477200	2.404329	-0.740676
6	-2.423097	3.064891	-0.228555
6	-2.975140	3.858891	0.786083
6	-2.860344	5.244524	0.743899
6	-2.206219	5.864465	-0.320341
6	-1.652803	5.085962	-1.334422
6	-1.744223	3.698205	-1.279641
6	-0.955251	0.414568	-2.081795
6	-2.047126	0.315294	-2.954951
6	-1.883264	-0.046344	-4.289619
6	-0.612302	-0.328436	-4.788052
6	0.486661	-0.246692	-3.938153
6	0.312001	0.118197	-2.602512
1	-4.919738	2.567482	-1.659935
1	-7.102666	3.689514	-1.311882
1	-8.364130	3.327826	0.796406
1	-7.428790	1.837134	2.550583
1	-5.260755	0.704263	2.186715
1	-7.778498	-1.626489	-1.751390
1	-8.356784	-3.129129	0.138192
1	-6.738089	-3.459084	1.992452
1	-4.544329	-2.310633	1.940305
1	-5.608417	-0.436385	-1.771638
1	-3.489567	3.381335	1.614564
1	-3.285214	5.842912	1.544134
1	-2.124977	6.946479	-0.355696
1	-1.142322	5.559010	-2.168411
1	-1.299246	3.093426	-2.065682
1	1.200387	0.164784	-1.972978
1	1.483287	-0.467590	-4.309550
1	-0.480838	-0.611215	-5.827967
1	-3.047707	0.528584	-2.584688
1	-2.749671	-0.106950	-4.941841
1	-1.528834	-3.055684	2.015654
1	-1.404125	-5.526816	1.922668
1	-2.254402	-6.741491	-0.070429
1	-3.226727	-5.467568	-1.968251
1	-3.343114	-2.991950	-1.870134
5	-1.136396	0.783562	-0.478844
6	-1.206858	-0.685589	0.123233
8	-0.177788	-1.359505	0.460284
124			
TS[3a,3aA]	E(RM062X) =	-2896.55459474	
6	2.466472	1.416499	-0.089195
6	3.621679	0.631337	-0.050375
6	3.651474	-0.823803	0.088845
6	2.490265	-1.538947	0.242111
6	2.480246	2.873649	-0.421303

6	3.057671	3.334046	-1.610046
6	3.049768	4.689382	-1.923958
6	2.457504	5.605454	-1.055637
6	1.865741	5.155260	0.122234
6	1.872074	3.798025	0.433494
6	4.924885	1.342710	-0.187555
6	5.789006	1.077118	-1.254839
6	6.988406	1.771019	-1.372819
6	7.348649	2.715493	-0.412389
6	6.496545	2.975952	0.658784
6	5.282824	2.303105	0.763482
6	4.982303	-1.511657	0.031212
6	5.266551	-2.400733	-1.008965
6	6.492379	-3.059234	-1.065681
6	7.449784	-2.838614	-0.077920
6	7.173561	-1.957527	0.966760
6	5.949027	-1.298124	1.019174
6	2.496014	-3.014031	0.392281
6	1.660546	-3.797220	-0.415825
6	1.627122	-5.182183	-0.265171
6	2.397037	-5.800396	0.716825
6	3.211644	-5.026751	1.544756
6	3.267975	-3.648155	1.378110
6	0.938290	-0.742457	2.143346
6	1.079359	0.385096	2.963455
6	0.883022	0.314124	4.343455
6	0.535631	-0.894848	4.939089
6	0.390282	-2.031813	4.144555
6	0.594953	-1.951747	2.769604
1	5.737795	-0.607668	1.831741
1	7.912760	-1.783730	1.742580
1	8.405804	-3.350910	-0.120629
1	6.699082	-3.744542	-1.881889
1	4.515794	-2.577311	-1.774791
1	6.771778	3.709516	1.409657
1	8.290680	3.247355	-0.499748
1	7.646116	1.568647	-2.211984
1	5.516362	0.330809	-1.995077
1	4.606728	2.516248	1.586914
1	1.031640	-3.314827	-1.156157
1	0.982355	-5.773900	-0.907882
1	2.360114	-6.878179	0.842001
1	3.805280	-5.499719	2.320936
1	3.901776	-3.047989	2.023928
1	0.495646	-2.850005	2.164970
1	0.121844	-2.982096	4.597314
1	0.377970	-0.952167	6.011877
1	1.342345	1.347520	2.530628
1	0.994861	1.208089	4.950202
1	3.519274	2.623096	-2.289350
1	3.503579	5.029941	-2.849410
1	2.452115	6.663242	-1.299626
1	1.385989	5.857560	0.796917
1	1.390747	3.453466	1.344847
5	1.107581	-0.767903	0.501007
6	1.220613	0.761113	0.052309
8	0.148212	1.485984	-0.117296
6	-2.464401	-1.375111	-0.076536
6	-3.576092	-0.638742	0.238850
6	-3.549667	0.821009	0.452664
6	-2.414700	1.559427	0.240820
6	-2.516256	-2.825524	-0.412827
6	-1.844150	-3.780392	0.354319
6	-1.890268	-5.127369	0.003240
6	-2.595527	-5.533131	-1.128069
6	-3.258571	-4.584889	-1.905956
6	-3.219464	-3.240078	-1.549860
6	-4.889297	-1.346267	0.351142
6	-5.073195	-2.340904	1.315659
6	-6.290852	-3.007604	1.422905
6	-7.338452	-2.692515	0.560213
6	-7.162498	-1.705221	-0.408141
6	-5.947548	-1.033842	-0.508267
6	-4.828253	1.478012	0.866859
6	-5.459218	1.138641	2.068094
6	-6.645127	1.762353	2.444812
6	-7.221467	2.727353	1.619863
6	-6.601903	3.068711	0.419330
6	-5.411193	2.449718	0.048482
6	-2.321992	3.023328	0.474244
6	-2.784353	3.632740	1.649473
6	-2.636870	5.002038	1.844599
6	-2.029048	5.790734	0.867736
6	-1.557000	5.196212	-0.300359
6	-1.691052	3.823377	-0.488008
6	-1.274305	0.085801	-1.936937
6	-2.457421	0.323088	-2.641498
6	-2.451161	0.364794	-4.031201
6	-1.263656	0.156707	-4.734007
6	-0.086400	-0.097451	-4.037648
6	-0.094911	-0.140149	-2.643975
1	-4.920371	2.720716	-0.883054
1	-7.045102	3.818191	-0.229054
1	-8.148932	3.210086	1.911530
1	-7.120958	1.493402	3.382771
1	-5.015483	0.380669	2.708084
1	-7.973222	-1.455724	-1.085569
1	-8.287717	-3.212568	0.641952
1	-6.420366	-3.774056	2.180678
1	-4.253164	-2.588172	1.984259
1	-5.818934	-0.256066	-1.256856
1	-3.256455	3.024342	2.414855
1	-2.995931	5.455138	2.763651
1	-1.917788	6.859859	1.020623
1	-1.067187	5.797238	-1.060478
1	-1.301750	3.359254	-1.390845
1	0.828585	-0.377454	-2.121401
1	0.840109	-0.274637	-4.574169
1	-1.260561	0.185842	-5.818865
1	-3.388055	0.486766	-2.105991
1	-3.375210	0.560195	-4.565976
1	-1.295196	-3.461426	1.233708
1	-1.367868	-5.858469	0.612938
1	-2.629093	-6.582964	-1.402556
1	-3.807634	-4.892685	-2.790482
1	-3.737398	-2.498280	-2.152395
5	-1.132744	0.808324	-0.186790
6	-1.168264	-0.704085	-0.192499
8	-0.065099	-1.454187	-0.129438

124

3aA E(RM062X) = -2896.57826051

6	-2.629524	1.204041	0.555130
6	-3.636280	0.346192	0.079410
6	-3.446566	-1.042401	-0.320402
6	-2.200785	-1.623029	-0.280307
6	-2.897277	2.594142	1.031393
6	-3.818273	2.836256	2.056230
6	-4.073286	4.133739	2.487781
6	-3.406554	5.208584	1.901645
6	-2.475640	4.975560	0.891899
6	-2.215998	3.676245	0.462993
6	-5.006779	0.919075	-0.045544
6	-6.083080	0.396549	0.677809
6	-7.349121	0.958376	0.548952
6	-7.556081	2.026198	-0.322902
6	-6.488425	2.543539	-1.053330
6	-5.215275	2.002751	-0.904213
6	-4.645713	-1.836821	-0.744640
6	-5.057511	-2.928449	0.024997
6	-6.157705	-3.692155	-0.355887
6	-6.859278	-3.374056	-1.516657
6	-6.452786	-2.290672	-2.294122
6	-5.353813	-1.527123	-1.909867
6	-1.986501	-3.031354	-0.685402
6	-1.402081	-3.926324	0.219688
6	-1.194098	-5.256239	-0.140552
6	-1.524635	-5.696204	-1.420400
6	-2.075691	-4.802096	-2.338086
6	-2.315803	-3.482539	-1.970331
6	-0.283654	-0.368707	-1.486395
6	-0.601647	0.758932	-2.258043
6	0.058515	1.032297	-3.455373

6	1.057609	0.176187	-3.913659
6	1.371577	-0.965746	-3.177451
6	0.702435	-1.233004	-1.984398
1	-5.043726	-0.678416	-2.514309
1	-6.992609	-2.039254	-3.201861
1	-7.718092	-3.967242	-1.814832
1	-6.466124	-4.535467	0.254267
1	-4.506559	-3.178861	0.927779
1	-6.643903	3.373952	-1.734586
1	-8.547266	2.454795	-0.432109
1	-8.176678	0.555583	1.124180
1	-5.925730	-0.446021	1.344790
1	-4.375755	2.416420	-1.456829
1	-1.111681	-3.571854	1.204244
1	-0.767416	-5.947646	0.580117
1	-1.349803	-6.729575	-1.703520
1	-2.325771	-5.135253	-3.340640
1	-2.755556	-2.788177	-2.680612
1	0.962388	-2.121622	-1.414855
1	2.137693	-1.649010	-3.535106
1	1.582743	0.392394	-4.839436
1	-1.369219	1.453326	-1.919655
1	-0.198206	1.923279	-4.021819
1	-4.342300	2.000431	2.511325
1	-4.793350	4.305057	3.281876
1	-3.608314	6.222151	2.234380
1	-1.942500	5.803309	0.434258
1	-1.475001	3.503968	-0.314795
5	-0.911491	-0.733755	0.015235
6	-1.327045	0.689634	0.587720
8	-0.350120	1.494664	0.979228
6	2.507348	-1.085517	0.772535
6	3.400141	-0.301964	0.116451
6	3.152839	1.136793	-0.201056
6	2.052055	1.817033	0.238096
6	2.834314	-2.474793	1.207968
6	2.048543	-3.572215	0.836964
6	2.371582	-4.853869	1.277729
6	3.466822	-5.058233	2.112627
6	4.242907	-3.968778	2.505918
6	3.929487	-2.690810	2.055717
6	4.706185	-0.884042	-0.323179
6	4.728012	-1.941969	-1.235371
6	5.936038	-2.494157	-1.652975
6	7.139479	-1.994987	-1.158923
6	7.127491	-0.941428	-0.245873
6	5.919027	-0.387325	0.164963
6	4.167251	1.837997	-1.041623
6	4.460568	1.389510	-2.334048
6	5.383221	2.071534	-3.120634
6	6.034745	3.198103	-2.619148
6	5.750471	3.646594	-1.331346
6	4.814917	2.974181	-0.549922
6	1.714278	3.214753	-0.145048
6	1.626643	3.605611	-1.487535
6	1.217735	4.892370	-1.824813
6	0.896960	5.811839	-0.825934
6	0.977860	5.431467	0.512093
6	1.370187	4.138078	0.847758
6	1.225530	-0.431837	2.795589
6	2.306347	0.193503	3.430324
6	2.323532	0.339660	4.813746
6	1.260803	-0.135558	5.581075
6	0.182239	-0.753296	4.953246
6	0.159872	-0.896252	3.566396
1	4.579235	3.327937	0.450251
1	6.253371	4.523290	-0.935047
1	6.760453	3.724702	-3.231137
1	5.596670	1.721867	-4.126039
1	3.952300	0.509686	-2.720764
1	8.061233	-0.549974	0.146089
1	8.082274	-2.424321	-1.483586
1	5.937195	-3.315269	-2.363409
1	3.785780	-2.331161	-1.613185
1	5.911840	0.439218	0.871684
1	1.868411	2.885142	-2.264163
1	1.148782	5.178230	-2.870297
1	0.582952	6.817256	-1.089902
1	0.722616	6.137803	1.296610
1	1.409941	3.834420	1.891301
1	-0.674419	-1.381834	3.071558
1	-0.648047	-1.128056	5.544564
1	1.274736	-0.024294	6.660741
1	3.140965	0.558760	2.834620
1	3.168737	0.823704	5.293349
1	1.179153	-3.423594	0.207818
1	1.760320	-5.695512	0.964807
1	3.713707	-6.057676	2.457507
1	5.093443	-4.113990	3.165106
1	4.537172	-1.842991	2.359662
5	0.950770	0.962117	0.857476
6	1.173083	-0.543739	1.259009
8	0.098503	-1.380817	0.865182

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TS[3aA,1aTB] E(RM062X) = -2896.57566356

6	-2.391235	1.467933	0.126977
6	-3.554387	0.720264	0.146807
6	-3.601825	-0.721515	-0.112787
6	-2.465474	-1.443105	-0.390849
6	-2.339818	2.937852	0.373126
6	-2.856891	3.507431	1.540804
6	-2.774379	4.880575	1.752014
6	-2.171322	5.700839	0.799852
6	-1.646309	5.139851	-0.362716
6	-1.725507	3.766478	-0.572333
6	-4.844997	1.424038	0.415772
6	-5.601164	1.106073	1.548370
6	-6.796660	1.769389	1.804839
6	-7.257321	2.747165	0.924319
6	-6.512021	3.064325	-0.209330
6	-5.308290	2.410336	-0.458508
6	-4.936104	-1.400877	-0.052444
6	-5.162788	-2.384551	0.914270
6	-6.388705	-3.040640	0.987192
6	-7.404041	-2.723542	0.088108
6	-7.186227	-1.746794	-0.882988
6	-5.962103	-1.088084	-0.949526
6	-2.507504	-2.876589	-0.776773
6	-1.663495	-3.810009	-0.159636
6	-1.693365	-5.150520	-0.537794
6	-2.536686	-5.574607	-1.561928
6	-3.353307	-4.647638	-2.208835
6	-3.342410	-3.313952	-1.816195
6	-1.046075	0.125063	-2.039677
6	-2.126371	0.525964	-2.823765
6	-1.947430	0.833737	-4.168983
6	-0.677509	0.760860	-4.741263
6	0.406943	0.372748	-3.960149
6	0.225977	0.064814	-2.611624
1	-5.799113	-0.322053	-1.703741
1	-7.971813	-1.497460	-1.589795
1	-8.360450	-3.234279	0.142772
1	-6.549480	-3.799902	1.746328
1	-4.365918	-2.634485	1.610267
1	-6.865522	3.824068	-0.899359
1	-8.193799	3.259476	1.121253
1	-7.371257	1.519636	2.691192
1	-5.248201	0.335589	2.228442
1	-4.717394	2.667547	-1.334041
1	-0.974481	-3.481841	0.612010
1	-1.044364	-5.860698	-0.033966
1	-2.552389	-6.618341	-1.860731
1	-4.001561	-4.964530	-3.020205
1	-3.982785	-2.595557	-2.319939
1	1.084040	-0.268104	-2.030766
1	1.399102	0.304161	-4.395733
1	-0.535210	1.007055	-5.788720
1	-3.119202	0.605689	-2.386967
1	-2.800207	1.137774	-4.768064
1	-3.326852	2.869326	2.283702
1	-3.178715	5.309234	2.663814
1	-2.105594	6.771785	0.966271

1	-1.161477	5.770002	-1.102071
1	-1.302190	3.326698	-1.472208
5	-1.086394	-0.706632	-0.406979
6	-1.148513	0.780822	-0.073345
8	-0.020352	1.510873	0.103121
6	2.467602	-1.402883	0.280999
6	3.597519	-0.689364	0.057112
6	3.623650	0.806170	-0.035360
6	2.503737	1.574774	0.104670
6	2.476859	-2.884232	0.456864
6	1.836156	-3.725455	-0.458222
6	1.855247	-5.106654	-0.275985
6	2.494184	-5.661118	0.831081
6	3.120095	-4.827526	1.756429
6	3.113653	-3.448715	1.568266
6	4.901890	-1.415543	-0.052272
6	5.134126	-2.315788	-1.094537
6	6.339775	-3.008195	-1.176907
6	7.327004	-2.810217	-0.214060
6	7.103097	-1.914529	0.830552
6	5.899962	-1.220106	0.907924
6	4.948114	1.446822	-0.290415
6	5.678819	1.161080	-1.448570
6	6.899636	1.785588	-1.683006
6	7.413215	2.689744	-0.753945
6	6.694857	2.973726	0.405443
6	5.465450	2.360855	0.631937
6	2.467238	3.052148	-0.071463
6	3.032589	3.690598	-1.183522
6	2.928563	5.068945	-1.339855
6	2.258005	5.836142	-0.387895
6	1.681818	5.212173	0.716216
6	1.778054	3.831501	0.865795
6	0.893433	-0.779317	2.081930
6	1.867325	-0.307777	2.973044
6	1.640486	-0.321018	4.345237
6	0.434081	-0.802066	4.852719
6	-0.539180	-1.267124	3.974162
6	-0.315206	-1.252535	2.597426
1	4.894963	2.590869	1.527915
1	7.089289	3.676206	1.132944
1	8.370140	3.169890	-0.933000
1	7.453255	1.562249	-2.589587
1	5.285973	0.447970	-2.168060
1	7.866272	-1.757280	1.586451
1	8.266347	-3.350760	-0.276725
1	6.506756	-3.704610	-1.992879
1	4.360021	-2.474443	-1.840516
1	5.729512	-0.515993	1.719018
1	3.553996	3.099387	-1.930811
1	3.370413	5.545308	-2.209881
1	2.178161	6.911964	-0.511409
1	1.140987	5.796191	1.454702
1	1.308434	3.345538	1.717703
1	-1.083787	-1.623194	1.927623
1	-1.481091	-1.648320	4.356866
1	0.256869	-0.814565	5.923417
1	2.814581	0.063226	2.588791
1	2.408898	0.044126	5.019635
1	1.325015	-3.292116	-1.311304
1	1.365768	-5.749132	-1.002055
1	2.504959	-6.737553	0.972522
1	3.616137	-5.251409	2.624221
1	3.608897	-2.796212	2.282562
5	1.170164	0.825536	0.259512
6	1.137968	-0.728762	0.555113
8	0.112874	-1.420311	-0.147869
124			
1aTB	E(RM062X) =	-2896.61651823	
6	-2.029507	1.482400	-0.094456
6	-3.155666	0.852341	0.315082
6	-3.543693	-0.509146	-0.202965
6	-2.607806	-1.329064	-0.745293
6	-1.572754	2.792188	0.439758
6	-1.246588	2.929382	1.792056
6	-0.797818	4.152674	2.285461
6	-0.680050	5.250220	1.434311
6	-0.993129	5.113775	0.081776
6	-1.418759	3.886803	-0.417146
6	-4.049488	1.467838	1.337798
6	-4.368602	0.747614	2.493796
6	-5.192339	1.300555	3.469395
6	-5.720827	2.578656	3.294024
6	-5.417747	3.299008	2.140173
6	-4.586280	2.747522	1.169441
6	-4.976712	-0.901719	-0.077222
6	-5.339475	-2.107201	0.531528
6	-6.678437	-2.470077	0.640767
6	-7.673588	-1.633947	0.137963
6	-7.322039	-0.429115	-0.468198
6	-5.983082	-0.062736	-0.567323
6	-2.871311	-2.663401	-1.331645
6	-2.075125	-3.757293	-0.964374
6	-2.290731	-5.010237	-1.532902
6	-3.288187	-5.185079	-2.490034
6	-4.071016	-4.097265	-2.876684
6	-3.865270	-2.847101	-2.302766
6	-1.542056	0.951699	-2.564205
6	-2.819770	1.368746	-2.940254
6	-3.176174	1.431620	-4.285973
6	-2.263016	1.071298	-5.273436
6	-0.987146	0.649150	-4.905984
6	-0.631543	0.588128	-3.561832
1	-5.712296	0.884408	-1.028040
1	-8.091039	0.229412	-0.860035
1	-8.718166	-1.917195	0.222085
1	-6.945107	-3.406078	1.121962
1	-4.562870	-2.759072	0.922259
1	-5.832341	4.291678	1.993855
1	-6.370181	3.008611	4.050273
1	-5.426185	0.732256	4.364350
1	-3.966073	-0.254481	2.621770
1	-4.346700	3.309786	0.270753
1	-1.291698	-3.621367	-0.223403
1	-1.676634	-5.852282	-1.227152
1	-3.451323	-6.160938	-2.936809
1	-4.842026	-4.223068	-3.630669
1	-4.470135	-1.997419	-2.607481
1	0.368568	0.266757	-3.284145
1	-0.265654	0.365601	-5.666109
1	-2.542736	1.118828	-6.321117
1	-3.538665	1.658793	-2.179698
1	-4.172061	1.765448	-4.560631
1	-1.351975	2.073370	2.453802
1	-0.542936	4.245896	3.337105
1	-0.338582	6.206134	1.820191
1	-0.893895	5.962026	-0.589000
1	-1.643101	3.773588	-1.475113
5	-1.165173	-0.725163	-0.713748
6	-1.098517	0.809767	-1.102251
8	0.221920	1.368803	-1.014506
6	2.206606	-1.549839	0.394935
6	3.439907	-1.059936	0.144683
6	3.695581	0.364102	-0.253821
6	2.686163	1.244429	-0.503010
6	1.974278	-2.943816	0.872635
6	1.455899	-3.917644	0.013198
6	1.230399	-5.213793	0.469050
6	1.508149	-5.548318	1.793684
6	2.015631	-4.581042	2.658304
6	2.247962	-3.286005	2.200678
6	4.614606	-1.977030	0.281846
6	4.787896	-3.018177	-0.633614
6	5.872603	-3.884694	-0.526615
6	6.795510	-3.721329	0.503611
6	6.627543	-2.688321	1.424869
6	5.545315	-1.820022	1.313227
6	5.124681	0.796836	-0.326539
6	6.012434	0.249059	-1.258589
6	7.332555	0.684871	-1.314556
6	7.786287	1.661902	-0.429140
6	6.910406	2.206994	0.506907

6	5.585757	1.780656	0.552869
6	2.900057	2.649174	-0.939323
6	3.783322	2.994655	-1.971091
6	3.953713	4.322454	-2.347689
6	3.247625	5.332433	-1.694994
6	2.353397	5.000397	-0.680116
6	2.167509	3.668932	-0.317119
6	0.587502	-0.292381	1.794172
6	1.448318	0.497666	2.569024
6	1.099843	0.865759	3.864625
6	-0.107400	0.439653	4.417112
6	-0.958134	-0.360440	3.660909
6	-0.617939	-0.721312	2.356133
1	4.894443	2.215560	1.270352
1	7.257058	2.967646	1.199595
1	8.818297	1.996216	-0.469362
1	8.009917	0.259108	-2.048316
1	5.664165	-0.518612	-1.944085
1	7.342355	-2.557827	2.231479
1	7.642179	-4.395359	0.589118
1	5.995970	-4.686190	-1.248347
1	4.065447	-3.143566	-1.435550
1	5.420999	-1.009577	2.026966
1	4.339319	2.213050	-2.479924
1	4.639547	4.569420	-3.152577
1	3.387708	6.370013	-1.982604
1	1.790115	5.776984	-0.171704
1	1.448776	3.415232	0.461433
1	-1.293849	-1.353838	1.789532
1	-1.893162	-0.713499	4.085180
1	-0.377325	0.723502	5.429265
1	2.399555	0.825231	2.157782
1	1.775966	1.485925	4.444947
1	1.230762	-3.654419	-1.016478
1	0.840494	-5.963686	-0.212886
1	1.331271	-6.558451	2.149874
1	2.234396	-4.833963	3.691245
1	2.647810	-2.530678	2.872236
5	1.232021	0.703193	-0.414062
6	0.978524	-0.664363	0.348616
8	-0.105944	-1.414570	-0.236329
62			
TS[1aAD,4a] E(RM062X) =		-1448.20048634	
5	-0.950240	0.998720	0.132371
8	-0.693347	-0.520092	2.714352
6	-0.890434	-0.462080	1.580191
6	0.513823	1.219203	-0.006374
6	1.199242	-0.051469	-0.137476
6	0.354397	-1.143890	-0.078133
6	-1.058558	-0.651724	0.174525
6	1.220059	2.514355	-0.091483
6	0.946946	3.527840	0.838633
6	1.586879	4.761653	0.763236
6	2.510518	5.011169	-0.250638
6	2.785608	4.016970	-1.188183
6	2.149585	2.782114	-1.108261
6	2.671739	-0.205395	-0.243401
6	3.521533	0.443420	0.659999
6	4.899745	0.269356	0.579406
6	5.446410	-0.540836	-0.414819
6	4.607695	-1.182379	-1.324001
6	3.228203	-1.019770	-1.235478
6	0.711464	-2.566583	0.107378
6	1.653234	-2.954698	1.071377
6	1.973603	-4.296535	1.249936
6	1.353984	-5.273133	0.471242
6	0.415082	-4.900826	-0.488398
6	0.095631	-3.558018	-0.669222
6	-2.288083	-1.405351	-0.246902
6	-2.823215	-2.429596	0.535713
6	-3.931819	-3.143699	0.087651
6	-4.499942	-2.844263	-1.147911
6	-3.964944	-1.821532	-1.930977
6	-2.868095	-1.094740	-1.478625
6	-2.202307	1.936518	0.171159
6	-2.164397	3.190917	-0.462139
6	-3.272145	4.034137	-0.477263
6	-4.455204	3.645876	0.149659
6	-4.520668	2.406545	0.783653
6	-3.410344	1.566337	0.786627
1	-0.628837	-3.268714	-1.425376
1	-0.066784	-5.656435	-1.101096
1	1.603008	-6.320366	0.612045
1	2.703961	-4.581350	2.001106
1	2.134916	-2.193011	1.678967
1	5.027368	-1.813088	-2.101549
1	6.522183	-0.670628	-0.480860
1	5.548398	0.770209	1.291435
1	3.095575	1.083481	1.427794
1	2.570447	-1.524654	-1.937705
1	-2.366896	-2.680294	1.490560
1	-4.345091	-3.936828	0.702313
1	-5.360939	-3.403813	-1.499421
1	-4.409305	-1.582954	-2.891999
1	-2.455286	-0.284368	-2.072897
1	-3.492499	0.598713	1.279718
1	-5.437782	2.092905	1.273729
1	-5.320099	4.302285	0.142677
1	-1.249032	3.507841	-0.955603
1	-3.212491	4.995723	-0.978971
1	0.224009	3.334115	1.626943
1	1.365605	5.529252	1.498904
1	3.010406	5.972975	-0.311182
1	3.498656	4.203408	-1.985707
1	2.367119	2.013372	-1.844716
62			
4a	E(RM062X) =	-1448.20098644	
5	-1.150873	0.748924	0.183257
8	-0.548202	-0.801795	2.765020
6	-0.748558	-0.812357	1.633663
6	0.210479	1.307130	0.017175
6	1.175820	0.231943	-0.087920
6	0.625380	-1.034431	-0.012683
6	-0.875428	-0.898249	0.231422
6	0.580655	2.732227	-0.113845
6	0.059835	3.672953	0.788086
6	0.366375	5.025647	0.675318
6	1.205041	5.470856	-0.344953
6	1.729080	4.550031	-1.251549
6	1.420852	3.197672	-1.137279
6	2.641114	0.433126	-0.214477
6	3.318272	1.298519	0.652509
6	4.696301	1.462315	0.549718
6	5.412226	0.776117	-0.430310
6	4.744128	-0.079800	-1.303687
6	3.367751	-0.253933	-1.193212
6	1.314775	-2.330097	0.167374
6	2.327276	-2.478554	1.127317
6	2.967948	-3.700893	1.301572
6	2.600721	-4.799607	0.525261
6	1.593442	-4.667189	-0.428357
6	0.956132	-3.442211	-0.607940
6	-1.886193	-1.874109	-0.304765
6	-2.238233	-3.026480	0.399629
6	-3.139393	-3.933789	-0.152449
6	-3.679962	-3.698540	-1.413730
6	-3.325439	-2.548635	-2.119500
6	-2.438016	-1.632015	-1.564494
6	-2.596218	1.340365	0.246412
6	-2.888925	2.564486	-0.381003
6	-4.172324	3.102843	-0.366833
6	-5.206119	2.429785	0.283246
6	-4.945148	1.212416	0.909258
6	-3.659907	0.677956	0.883397
1	0.182374	-3.337291	-1.362958
1	1.307279	-5.517759	-1.039226
1	3.097925	-5.754773	0.662783
1	3.749645	-3.798917	2.048474
1	2.610378	-1.622044	1.733475
1	5.294683	-0.613907	-2.071792
1	6.486337	0.909868	-0.513823
1	5.211668	2.129470	1.233787

1	2.759405	1.839138	1.411174
1	2.844554	-0.925191	-1.868656
1	-1.799918	-3.225587	1.374818
1	-3.411355	-4.825762	0.402332
1	-4.379339	-4.407014	-1.845699
1	-3.749318	-2.360361	-3.100650
1	-2.170894	-0.725312	-2.099930
1	-3.487686	-0.280039	1.372029
1	-5.743478	0.678578	1.416255
1	-6.207575	2.849324	0.299702
1	-2.093818	3.100765	-0.892314
1	-4.367069	4.049005	-0.863412
1	-0.594405	3.325790	1.583666
1	-0.047172	5.732955	1.388137
1	1.447420	6.525335	-0.434116
1	2.378759	4.886605	-2.054136
1	1.829689	2.488837	-1.852101
62			
TS[4,5a]	E(RM062X) =	-1448.17111978	
5	1.251044	-0.370154	-0.287247
8	0.412023	-3.285204	-2.156383
6	0.221356	-2.459525	-1.382495
6	0.423225	0.903204	-0.163086
6	-0.950924	0.625385	-0.292608
6	-1.212722	-0.741240	-0.529573
6	0.042188	-1.458155	-0.501008
6	0.981805	2.244434	0.107154
6	2.064263	2.721645	-0.648367
6	2.622586	3.970642	-0.392559
6	2.117449	4.768597	0.631806
6	1.047141	4.306133	1.396591
6	0.484698	3.060151	1.136334
6	-2.030524	1.634846	-0.126544
6	-2.083919	2.754407	-0.962913
6	-3.092687	3.702302	-0.811435
6	-4.055499	3.547011	0.184115
6	-4.006172	2.437426	1.026345
6	-3.001984	1.486204	0.869913
6	-2.501099	-1.438547	-0.619563
6	-3.604297	-0.863707	-1.273354
6	-4.805767	-1.553584	-1.376143
6	-4.936262	-2.833354	-0.835204
6	-3.849707	-3.416659	-0.187529
6	-2.645635	-2.727262	-0.077948
6	0.871802	-1.636028	1.053871
6	1.835603	-2.648430	1.162788
6	2.058913	-3.277443	2.385198
6	1.317648	-2.918354	3.506659
6	0.333634	-1.930695	3.393071
6	0.093929	-1.311985	2.176583
6	2.756901	-0.511669	-0.729322
6	3.788174	-0.147376	0.151085
6	5.123513	-0.201275	-0.234869
6	5.462046	-0.630076	-1.519158
6	4.457141	-0.997474	-2.409300
6	3.119518	-0.933379	-2.015236
1	-1.811545	-3.182214	0.452002
1	-3.940253	-4.409659	0.242121
1	-5.875556	-3.370307	-0.920985
1	-5.643345	-1.093465	-1.891536
1	-3.506397	0.122622	-1.715681
1	-4.752209	2.310555	1.804722
1	-4.839659	4.287868	0.304340
1	-3.124572	4.564944	-1.469724
1	-1.327231	2.879006	-1.732445
1	-2.973293	0.614306	1.518657
1	2.429114	-2.930037	0.296599
1	2.815946	-4.052268	2.454544
1	1.492393	-3.407298	4.459213
1	-0.254693	-1.646990	4.260058
1	-0.687803	-0.562402	2.085320
1	2.347909	-1.206319	-2.733079
1	4.711409	-1.329576	-3.411584
1	6.503735	-0.675111	-1.822486
1	3.533474	0.182123	1.156308
1	5.902968	0.088677	0.463835
1	2.459950	2.103922	-1.449201
1	3.454436	4.320896	-0.996582
1	2.553825	5.742195	0.833032
1	0.649292	4.917907	2.200999
1	-0.347312	2.706018	1.739057
62			
5a	E(RM062X) =	-1448.22709888	
5	1.168081	-0.704072	0.381675
8	0.294284	-4.111124	-0.570485
6	0.052933	-3.000802	-0.377316
6	0.274805	0.654099	0.391465
6	-1.009335	0.449252	-0.084056
6	-1.228401	-0.944767	-0.373658
6	-0.089930	-1.704712	-0.101221
6	0.768128	1.949133	0.883785
6	2.117255	2.298501	0.706858
6	2.613920	3.496634	1.209844
6	1.784435	4.351509	1.932390
6	0.450606	4.003079	2.145441
6	-0.056534	2.821586	1.618711
6	-2.057497	1.480581	-0.297534
6	-1.801605	2.577086	-1.128287
6	-2.776352	3.549091	-1.334009
6	-4.018032	3.437338	-0.709997
6	-4.281205	2.347902	0.118643
6	-3.307641	1.373533	0.321652
6	-2.469925	-1.517237	-0.924195
6	-3.128338	-0.896606	-1.995916
6	-4.257940	-1.483866	-2.552891
6	-4.758637	-2.677090	-2.032009
6	-4.119128	-3.291272	-0.957412
6	-2.974579	-2.719899	-0.410821
6	1.746091	-1.180957	1.815499
6	2.422923	-2.410376	1.909359
6	2.905557	-2.901148	3.119289
6	2.722286	-2.165681	4.290586
6	2.053166	-0.946979	4.230160
6	1.573098	-0.467669	3.009555
6	2.269071	-0.647736	-0.828709
6	3.647768	-0.759585	-0.603506
6	4.571897	-0.674553	-1.647181
6	4.136201	-0.472821	-2.953367
6	2.768985	-0.353208	-3.204942
6	1.858725	-0.438155	-2.155585
1	-2.489880	-3.187959	0.441757
1	-4.510948	-4.213782	-0.542362
1	-5.648077	-3.125700	-2.462395
1	-4.750816	-1.007795	-3.394007
1	-2.740264	0.031637	-2.402622
1	-5.245582	2.256159	0.608254
1	-4.777712	4.195921	-0.869470
1	-2.566769	4.393886	-1.982538
1	-0.831134	2.661572	-1.610088
1	-3.513712	0.523443	0.966685
1	2.588266	-2.995807	1.004889
1	3.424563	-3.855063	3.150464
1	3.096937	-2.541034	5.238244
1	1.901598	-0.365098	5.135138
1	1.051907	0.485940	2.996398
1	0.795432	-0.337945	-2.372979
1	2.414670	-0.192283	-4.219335
1	4.851576	-0.407339	-3.767679
1	4.010345	-0.910838	0.410118
1	5.633729	-0.766244	-1.435940
1	2.771566	1.629039	0.159131
1	3.655048	3.756736	1.047207
1	2.175900	5.280045	2.335905
1	-0.197009	4.654876	2.723210
1	-1.092789	2.555832	1.799373
62			
TS[5,1aKD]	E(RM062X) =	-1448.21096270	
5	1.207953	0.858228	-0.069296
8	0.242778	4.314290	-0.250414
6	0.064726	3.169053	-0.197144
6	0.478325	-0.492882	-0.279068
6	-0.962201	-0.272176	-0.299338

6	-1.256509	1.076347	-0.238412
6	-0.043931	1.853550	-0.131278
6	1.052300	-1.838784	-0.532421
6	1.990334	-1.996838	-1.556435
6	2.517990	-3.255971	-1.844113
6	2.126153	-4.362713	-1.097722
6	1.201261	-4.211133	-0.061868
6	0.664084	-2.961192	0.213753
6	-1.973588	-1.356800	-0.346583
6	-1.989685	-2.260042	-1.416687
6	-2.935862	-3.278399	-1.472623
6	-3.880383	-3.410964	-0.455844
6	-3.873031	-2.518849	0.614717
6	-2.926296	-1.498585	0.669056
6	-2.602657	1.688328	-0.255624
6	-3.588136	1.224628	-1.138268
6	-4.840191	1.827025	-1.174981
6	-5.131670	2.895800	-0.327685
6	-4.160192	3.363031	0.554079
6	-2.902729	2.766308	0.586955
6	1.186705	0.033064	1.497622
6	2.358164	-0.648543	1.853570
6	2.615158	-0.978440	3.180913
6	1.684121	-0.662879	4.168493
6	0.495686	-0.019107	3.821415
6	0.245614	0.310864	2.494101
6	2.631378	1.348390	-0.584184
6	3.699467	1.714289	0.244841
6	4.892882	2.212613	-0.277837
6	5.046165	2.362590	-1.653843
6	3.993246	2.021015	-2.501329
6	2.805298	1.528169	-1.967264
1	-2.155283	3.125111	1.290284
1	-4.379842	4.192062	1.219299
1	-6.111119	3.362740	-0.357179
1	-5.590079	1.463126	-1.870253
1	-3.361984	0.397241	-1.803562
1	-4.605252	-2.618028	1.410212
1	-4.618851	-4.205625	-0.498335
1	-2.936874	-3.967768	-2.311286
1	-1.250569	-2.158173	-2.206688
1	-2.921491	-0.801575	1.503324
1	3.078265	-0.914535	1.083911
1	3.535680	-1.491574	3.440818
1	1.876152	-0.929700	5.203150
1	-0.240338	0.214938	4.584293
1	-0.692656	0.793696	2.230101
1	1.986586	1.276489	-2.639848
1	4.097484	2.140101	-3.576079
1	5.976068	2.746428	-2.062643
1	3.600109	1.605306	1.322328
1	5.703754	2.485774	0.391421
1	2.303930	-1.128504	-2.127397
1	3.241827	-3.367041	-2.645332
1	2.542610	-5.341637	-1.314562
1	0.901059	-5.070891	0.528935
1	-0.053142	-2.838021	1.021105
62			
1aKD	E(RM062X) =	-1448.24798223	
5	1.200357	0.940682	-0.390314
8	0.106452	4.053156	-1.715429
6	0.008134	2.994677	-1.253126
6	0.593866	-0.466105	0.117440
6	-0.921093	-0.281713	-0.078094
6	-1.253004	0.952631	-0.517482
6	-0.041128	1.787851	-0.708009
6	1.058419	-1.685751	-0.667422
6	1.211962	-1.572210	-2.055475
6	1.514528	-2.680876	-2.840153
6	1.667834	-3.933572	-2.247002
6	1.512069	-4.062196	-0.869098
6	1.205159	-2.949503	-0.087771
6	-1.900270	-1.340920	0.277950
6	-1.960329	-2.553441	-0.425337
6	-2.898391	-3.525348	-0.085453
6	-3.792870	-3.306373	0.960053
6	-3.752142	-2.101249	1.657726
6	-2.816151	-1.128868	1.317389
6	-2.608078	1.477887	-0.799404
6	-3.563930	0.701597	-1.467970
6	-4.827559	1.216022	-1.737983
6	-5.158630	2.512718	-1.345718
6	-4.215281	3.293977	-0.683040
6	-2.948389	2.781418	-0.415832
6	0.986287	-0.453056	1.601089
6	2.221514	-0.961886	2.030420
6	2.614007	-0.868480	3.361357
6	1.789603	-0.246524	4.298152
6	0.576128	0.291040	3.882032
6	0.183429	0.193191	2.548071
6	2.691973	1.372684	-0.484545
6	3.723536	0.452803	-0.745125
6	5.051067	0.860368	-0.833315
6	5.382812	2.201616	-0.645783
6	4.381691	3.131964	-0.374163
6	3.054570	2.718631	-0.301483
1	-2.225159	3.392642	0.118597
1	-4.463822	4.303492	-0.371358
1	-6.145141	2.911936	-1.558676
1	-5.554885	0.604257	-2.262391
1	-3.306888	-0.305054	-1.782294
1	-4.451049	-1.915273	2.467353
1	-4.521909	-4.066207	1.223647
1	-2.933241	-4.454498	-0.645998
1	-1.285396	-2.726809	-1.257505
1	-2.801989	-0.184574	1.853773
1	2.883969	-1.439308	1.315207
1	3.571245	-1.280367	3.665939
1	2.095431	-0.175560	5.337073
1	-0.072347	0.792329	4.594021
1	-0.756537	0.636959	2.237308
1	2.290056	3.457389	-0.072869
1	4.634490	4.176173	-0.219499
1	6.418893	2.519998	-0.708900
1	3.481558	-0.595399	-0.896950
1	5.828262	0.132810	-1.045550
1	1.080874	-0.600369	-2.529221
1	1.629915	-2.566573	-3.913484
1	1.905012	-4.800905	-2.854838
1	1.618722	-5.034419	-0.397798
1	1.060560	-3.069289	0.981530
60			
1b	E(RM062X) =	-3814.91937578	
5	-0.508814	1.292635	0.026659
6	1.014908	0.857299	0.005199
6	1.021914	-0.490938	0.009711
6	-0.386059	-1.053793	0.016400
6	-1.311789	-0.073767	0.045499
6	2.217646	1.698302	-0.013016
6	2.352596	2.753696	0.887756
6	3.454205	3.593378	0.883220
6	4.462080	3.390477	-0.050542
6	4.356419	2.353545	-0.965967
6	3.242938	1.525535	-0.942219
6	2.206955	-1.362614	0.032082
6	3.176482	-1.239687	1.026115
6	4.287077	-2.069260	1.061860
6	4.445809	-3.045968	0.087605
6	3.499496	-3.185857	-0.919111
6	2.398321	-2.344443	-0.938124
6	-0.647145	-2.501639	-0.032162
6	-0.110801	-3.363685	0.922017
6	-0.340672	-4.729945	0.883916
6	-1.132261	-5.259193	-0.126744
6	-1.686336	-4.423188	-1.087169
6	-1.441861	-3.059522	-1.031986
6	-2.762288	-0.302972	0.064641
6	-3.377789	-1.155973	0.979996
6	-4.753057	-1.341373	0.998002
6	-5.550710	-0.659468	0.090875
6	-4.968921	0.201986	-0.829989
6	-3.594085	0.369424	-0.829375

6	-1.085510	2.731413	0.008526
6	-0.503855	3.751115	-0.747862
6	-1.022811	5.034907	-0.799171
6	-2.159474	5.334946	-0.059470
6	-2.766581	4.354864	0.715542
6	-2.229605	3.078255	0.731106
9	1.395858	2.968072	1.794913
9	3.556153	4.583943	1.764957
9	5.523125	4.188534	-0.066751
9	5.314392	2.167071	-1.870136
9	3.164635	0.562367	-1.862350
9	3.040931	-0.326291	1.985019
9	5.193257	-1.942618	2.025762
9	5.504140	-3.844320	0.116622
9	3.661798	-4.110739	-1.859559
9	1.518998	-2.468993	-1.933232
9	0.622888	-2.869301	1.920092
9	0.175421	-5.529419	1.811637
9	-1.360979	-6.564404	-0.175093
9	-2.438216	-4.934961	-2.056114
9	-2.649811	-1.810923	1.886957
9	-1.970986	-2.285295	-1.977166
9	-5.311101	-2.158347	1.887384
9	-6.867386	-0.829715	0.102326
9	-5.731553	0.852941	-1.703958
9	-3.057293	1.201694	-1.726069
9	0.572456	3.499504	-1.496405
9	-0.452887	5.972035	-1.549549
9	-2.667870	6.556773	-0.093308
9	-3.848625	4.650125	1.428639
9	-2.831440	2.172522	1.505355

62

TS[1,1bAD] E(RM062X) = -3928.19601772

5	-0.685852	1.193929	-0.255741
8	-0.711663	-0.118958	2.817535
6	0.017125	0.741552	2.920373
6	0.884755	0.995663	-0.306029
6	1.079570	-0.337263	-0.193980
6	-0.223528	-1.106128	-0.208058
6	-1.279025	-0.274145	-0.305755
6	1.989397	1.961710	-0.390755
6	2.037939	3.093923	0.421208
6	3.074482	4.009724	0.353531
6	4.104840	3.810685	-0.555815
6	4.084050	2.701166	-1.387702
6	3.035346	1.796719	-1.300279
6	2.378024	-1.011614	-0.032673
6	3.243260	-0.660577	1.002038
6	4.466559	-1.291074	1.169706
6	4.844911	-2.296661	0.289917
6	4.002344	-2.666621	-0.750417
6	2.785169	-2.020754	-0.901544
6	-0.261214	-2.572624	-0.107237
6	0.324501	-3.221639	0.977441
6	0.281925	-4.599866	1.114263
6	-0.369149	-5.358348	0.150313
6	-0.968701	-4.737498	-0.937937
6	-0.912198	-3.356955	-1.056413
6	-2.689794	-0.665748	-0.363612
6	-3.276694	-1.582362	0.508748
6	-4.626324	-1.895593	0.436810
6	-5.428643	-1.275693	-0.511123
6	-4.878458	-0.344969	-1.382345
6	-3.527502	-0.051280	-1.294076
6	-1.496316	2.488708	0.010259
6	-1.153143	3.706139	-0.579351
6	-1.866692	4.872109	-0.363706
6	-2.957670	4.845142	0.497209
6	-3.323982	3.662000	1.124619
6	-2.598138	2.508662	0.868994
9	1.058825	3.317478	1.300781
9	3.091473	5.072553	1.153548
9	5.103476	4.682075	-0.630662
9	5.061356	2.514847	-2.271033
9	3.044894	0.756389	-2.137201
9	2.895435	0.283850	1.874879
9	5.272962	-0.946386	2.168401
9	6.013330	-2.904624	0.442470
9	4.372851	-3.620552	-1.598119
9	2.001845	-2.362304	-1.925282
9	0.913133	-2.502599	1.935623
9	0.838182	-5.194364	2.164756
9	-0.424141	-6.677618	0.271752
9	-1.588117	-5.469843	-1.857897
9	-2.551636	-2.167063	1.463518
9	-1.490835	-2.787370	-2.111999
9	-5.160517	-2.773336	1.281531
9	-6.720777	-1.570304	-0.584172
9	-5.645873	0.251760	-2.289739
9	-3.016289	0.847821	-2.140346
9	-0.106968	3.767068	-1.406323
9	-1.522324	6.008769	-0.959770
9	-3.643804	5.953831	0.725789
9	-4.353883	3.648384	1.964626
9	-2.960331	1.402990	1.524723

62

1bAD E(RM062X) = -3928.22073637

5	0.893226	-1.103855	-0.581422
8	0.687608	-1.258693	-3.292824
6	0.851181	-1.247781	-2.179166
6	1.187335	0.479591	-0.386867
6	0.004666	1.097772	-0.150848
6	-1.120439	0.132518	-0.130123
6	-0.707945	-1.142976	-0.309737
6	2.517531	1.096185	-0.364225
6	3.508364	0.683041	-1.258346
6	4.788376	1.210373	-1.262094
6	5.127663	2.178395	-0.327167
6	4.184509	2.591769	0.602121
6	2.909132	2.045533	0.585719
6	-0.213892	2.542118	0.053524
6	0.221292	3.479147	-0.880062
6	0.012933	4.838363	-0.698382
6	-0.646105	5.285227	0.438503
6	-1.090430	4.373471	1.387033
6	-0.867405	3.020303	1.186536
6	-2.521820	0.553904	0.065313
6	-3.110145	1.486986	-0.784344
6	-4.422250	1.901694	-0.619315
6	-5.178491	1.368541	0.415720
6	-4.620957	0.430064	1.273909
6	-3.304204	0.033254	1.092706
6	-1.624971	-2.287651	-0.425153
6	-2.657889	-2.311000	-1.363623
6	-3.520663	-3.390791	-1.479808
6	-3.362496	-4.485379	-0.641233
6	-2.346404	-4.492371	0.304794
6	-1.495971	-3.401661	0.402281
6	1.919400	-2.122531	0.090171
6	2.015296	-2.143846	1.476775
6	2.912964	-2.955736	2.151059
6	3.760185	-3.780548	1.420741
6	3.698064	-3.784844	0.035304
6	2.782967	-2.957831	-0.601937
9	3.229406	-0.261477	-2.168894
9	5.686148	0.798394	-2.151251
9	6.348239	2.697763	-0.316575
9	4.511601	3.495209	1.520914
9	2.068998	2.438695	1.543242
9	0.846029	3.081739	-1.988014
9	0.430992	5.712564	-1.609077
9	-0.849510	6.583929	0.618728
9	-1.709458	4.803019	2.482504
9	-1.272170	2.165372	2.127347
9	-2.405868	1.988234	-1.800977
9	-4.962989	2.790981	-1.446875
9	-6.437597	1.752487	0.582400
9	-5.349233	-0.073988	2.265583
9	-2.826352	-1.281295	-2.196701
9	-2.791396	-0.861725	1.935830
9	-4.489487	-3.387142	-2.390990
9	-4.182549	-5.524102	-0.743308

9 -2.203325 -5.536644 1.115779
9 -0.546942 -3.425492 1.337787
9 1.210500 -1.358296 2.198286
9 2.974522 -2.953596 3.480875
9 4.628927 -4.564147 2.050119
9 4.508856 -4.574696 -0.665243
9 2.748961 -2.989232 -1.944708
62
TS[1bAD,2b]E(RM062X) = -3928.18001232
5 -0.068934 -1.779790 -0.921038
8 0.897206 -1.433164 -3.371877
6 0.588665 -1.388383 -2.230848
6 1.134124 -0.145715 -1.237082
6 0.311378 0.706938 -0.579248
6 -1.119816 0.364574 -0.453214
6 -1.390555 -0.941279 -0.682905
6 2.603506 -0.074158 -1.144350
6 3.409263 0.188837 -2.252199
6 4.792723 0.214658 -2.152069
6 5.400061 -0.014490 -0.925016
6 4.623390 -0.250916 0.201184
6 3.242452 -0.265811 0.083555
6 0.843650 1.905919 0.105069
6 1.604344 2.858798 -0.568349
6 2.103805 3.976138 0.082952
6 1.845958 4.151860 1.436567
6 1.092915 3.214938 2.132892
6 0.601119 2.106112 1.462618
6 -2.087130 1.401426 -0.050979
6 -2.113395 2.645115 -0.677731
6 -2.988359 3.644910 -0.286005
6 -3.869715 3.404356 0.760337
6 -3.863147 2.176836 1.408580
6 -2.970912 1.193480 1.006336
6 -2.739459 -1.506629 -0.821183
6 -3.773773 -0.840445 -1.490582
6 -5.042296 -1.386759 -1.612764
6 -5.309186 -2.639354 -1.078212
6 -4.299587 -3.342888 -0.436732
6 -3.038176 -2.779685 -0.329301
6 0.712506 -2.575913 0.168337
6 0.318056 -2.554409 1.508016
6 1.053661 -3.177337 2.503307
6 2.237652 -3.825071 2.173157
6 2.673657 -3.854814 0.855033
6 1.907716 -3.233652 -0.118597
9 2.860688 0.465728 -3.429212
9 5.539319 0.472719 -3.220744
9 6.722002 0.007480 -0.826229
9 5.203925 -0.454405 1.379528
9 2.521434 -0.461579 1.190570
9 1.859690 2.714780 -1.866584
9 2.822945 4.877404 -0.576756
9 2.324783 5.214806 2.066293
9 0.859693 3.380987 3.429949
9 -0.105569 1.205864 2.145959
9 -1.277413 2.887855 -1.689844
9 -2.996115 4.822254 -0.902481
9 -4.716827 4.350420 1.142750
9 -4.700492 1.957420 2.417505
9 -3.559790 0.337931 -2.074091
9 -2.967221 0.037092 1.666142
9 -5.996635 -0.724512 -2.258743
9 -6.518984 -3.167811 -1.192914
9 -4.543849 -4.549395 0.063058
9 -2.089287 -3.503607 0.266008
9 -0.785938 -1.906354 1.877996
9 0.651635 -3.143918 3.770216
9 2.955791 -4.412025 3.119374
9 3.812900 -4.466089 0.544761
9 2.367365 -3.251811 -1.373982
62
2b E(RM062X) = -3928.20351933
5 -1.408891 -1.491439 -0.035042
8 -0.000238 -3.525445 -0.183657
6 -0.027708 -2.310723 -0.084516
6 1.249857 -1.533893 -0.040834
6 1.214972 -0.183911 -0.006559
6 -0.051017 0.604056 -0.015056
6 -1.291773 0.046148 -0.029917
6 2.511141 -2.302526 -0.002638
6 2.839314 -3.163561 -1.046547
6 4.005606 -3.912407 -1.031502
6 4.872172 -3.805892 0.048220
6 4.570986 -2.953852 1.101865
6 3.396773 -2.216697 1.068771
6 2.489936 0.577803 0.046041
6 3.404959 0.528097 -1.000599
6 4.597379 1.235428 -0.952394
6 4.888689 2.010326 0.162381
6 3.993027 2.074990 1.222769
6 2.810977 1.356187 1.154287
6 0.098673 2.083892 0.000458
6 0.684634 2.748730 -1.072255
6 0.828509 4.126196 -1.084901
6 0.369400 4.865581 -0.001828
6 -0.223683 4.228081 1.080049
6 -0.355951 2.847209 1.071016
6 -2.500406 0.904002 -0.040494
6 -2.774987 1.791552 -1.078097
6 -3.931968 2.554901 -1.098088
6 -4.852036 2.430425 -0.065185
6 -4.609617 1.548587 0.978897
6 -3.442450 0.799328 0.978582
6 -2.749280 -2.277811 -0.052492
6 -2.976832 -3.323414 0.841830
6 -4.164347 -4.037611 0.861777
6 -5.160591 -3.721113 -0.052902
6 -4.969503 -2.693991 -0.968378
6 -3.776750 -1.988192 -0.949276
9 2.039337 -3.253912 -2.105351
9 4.304783 -4.720964 -2.043494
9 5.993060 -4.515159 0.070482
9 5.402096 -2.855271 2.135177
9 3.125483 -1.413638 2.098637
9 3.143385 -0.207216 -2.078783
9 5.457107 1.178891 -1.963826
9 6.027255 2.686968 0.217695
9 4.280204 2.808992 2.292302
9 1.962665 1.409853 2.181882
9 1.112051 2.044455 -2.120365
9 1.384697 4.741650 -2.122534
9 0.497233 6.184638 -0.002147
9 -0.655897 4.941744 2.113761
9 -1.921349 1.910303 -2.096745
9 -0.919344 2.253249 2.120607
9 -4.171419 3.394681 -2.100765
9 -5.963674 3.155318 -0.077184
9 -5.488577 1.433510 1.969570
9 -3.220046 -0.037709 1.993710
9 -2.056536 -3.628425 1.756841
9 -4.361873 -5.010983 1.745514
9 -6.299088 -4.398969 -0.051323
9 -5.921166 -2.404942 -1.850438
9 -3.612858 -1.025373 -1.862161
124
TS[2,2bA] E(RM062X) = -7856.43025555
6 3.072601 1.616968 0.554685
6 3.644202 0.433970 0.266188
6 3.258133 -0.809672 0.992589
6 2.122093 -0.878780 1.725847
6 3.458164 2.887405 -0.096572
6 2.646579 3.464947 -1.067379
6 2.925499 4.714106 -1.598479
6 4.054779 5.400616 -1.174159
6 4.897543 4.834039 -0.227328
6 4.587723 3.590717 0.305824
6 4.698259 0.363169 -0.780521
6 4.377038 0.585021 -2.116612
6 5.321955 0.484991 -3.125313
6 6.636291 0.179071 -2.795243
6 6.993401 -0.017804 -1.468024

6	6.027523	0.087046	-0.476866
6	4.209220	-1.955405	0.961084
6	4.490507	-2.668689	-0.198287
6	5.388300	-3.724790	-0.215360
6	6.023648	-4.095261	0.962008
6	5.757038	-3.409885	2.139884
6	4.858419	-2.353895	2.128291
6	1.789204	-2.120197	2.463990
6	1.608658	-3.353041	1.841888
6	1.259521	-4.490482	2.553433
6	1.083097	-4.410596	3.928691
6	1.260808	-3.198146	4.581124
6	1.611967	-2.077044	3.844803
6	-0.161064	0.278030	2.671322
6	-0.562385	1.062719	3.748314
6	-1.760977	0.849097	4.421758
6	-2.603225	-0.177133	4.022434
6	-2.231469	-1.002824	2.968538
6	-1.033766	-0.756524	2.321340
5	1.216675	0.412956	1.907202
6	2.128767	1.717938	1.742259
8	2.230353	2.690048	2.461082
6	-1.137572	-0.437066	-1.295537
6	-2.453661	-0.766669	-1.280529
6	-3.503163	0.044889	-0.582016
6	-3.218142	1.262044	-0.056202
6	-0.089071	-1.270730	-1.916372
6	0.116731	-2.615559	-1.618998
6	1.114203	-3.347940	-2.244041
6	1.936329	-2.732961	-3.176047
6	1.768725	-1.388042	-3.478215
6	0.765013	-0.674871	-2.844174
6	-2.878500	-2.017945	-1.956109
6	-3.403627	-3.083094	-1.230635
6	-3.803593	-4.257063	-1.848813
6	-3.663180	-4.382082	-3.225238
6	-3.125233	-3.340807	-3.971262
6	-2.735737	-2.173978	-3.332164
6	-4.873335	-0.516410	-0.486388
6	-5.479194	-0.702276	0.755791
6	-6.758285	-1.225905	0.870074
6	-7.467420	-1.558726	-0.276329
6	-6.901877	-1.354149	-1.528499
6	-5.624926	-0.825190	-1.618400
6	-4.228127	2.148063	0.554757
6	-5.452430	2.479783	-0.025456
6	-6.339096	3.345457	0.598932
6	-6.001421	3.923200	1.815969
6	-4.771036	3.647497	2.399342
6	-3.906600	2.780284	1.754163
6	-1.550039	3.300933	-0.594180
6	-2.421321	3.975087	-1.457478
6	-2.191693	5.276991	-1.872785
6	-1.069469	5.950749	-1.405259
6	-0.193869	5.326854	-0.524487
6	-0.448257	4.022461	-0.140829
5	-1.779417	1.812514	-0.228911
6	-0.659392	0.691660	-0.437043
8	0.481001	0.595169	0.017798
9	2.102426	5.266857	-2.487736
9	1.561608	2.820642	-1.505488
9	4.331246	6.597582	-1.676383
9	5.983792	5.490205	0.169702
9	5.403367	3.063430	1.216969
9	6.397330	-0.090522	0.791561
9	8.255317	-0.291925	-1.154080
9	7.553796	0.084920	-3.748278
9	4.983865	0.687769	-4.393656
9	3.126218	0.904279	-2.448973
9	3.877564	-2.344163	-1.340034
9	5.632697	-4.386283	-1.341707
9	6.881785	-5.106153	0.962737
9	6.366082	-3.766045	3.266248
9	4.625180	-1.713490	3.272631
9	1.796022	-0.922371	4.490805
9	1.104278	-3.122898	5.899261
9	0.749197	-5.494006	4.618932
9	1.088902	-5.652459	1.929777
9	1.769026	-3.465359	0.520355
9	-0.631348	-3.233203	-0.706802
9	1.315681	-4.620760	-1.920679
9	2.917257	-3.418715	-3.744577
9	2.581781	-0.803397	-4.353032
9	0.605912	0.616346	-3.129350
9	-3.502807	-2.986031	0.093592
9	-2.226141	-1.185558	-4.062867
9	-2.993596	-3.466781	-5.287121
9	-4.038411	-5.500492	-3.828362
9	-4.300087	-5.262744	-1.137144
9	-5.128320	-0.571054	-2.828711
9	-7.594019	-1.640303	-2.625249
9	-8.690297	-2.057379	-0.175984
9	-7.308042	-1.404903	2.065479
9	-4.841216	-0.362436	1.874957
9	0.207712	2.052241	4.191163
9	-2.114190	1.636816	5.433399
9	-3.756743	-0.377359	4.645263
9	-3.007056	-2.017379	2.599998
9	-0.723909	-1.572646	1.300991
9	0.389355	3.445239	0.718185
9	0.871472	5.981159	-0.072969
9	-0.837194	7.191988	-1.794378
9	-3.022330	5.879789	-2.714982
9	-3.491005	3.353479	-1.955511
9	-2.704237	2.545949	2.297256
9	-4.434844	4.214791	3.551349
9	-6.846153	4.752124	2.411829
9	-7.500238	3.643598	0.026518
9	-5.787142	2.002664	-1.222355
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2bA	E(RM062X) =	-7856.45156837	
6	2.816134	1.600165	-0.023480
6	3.539509	0.470164	0.155317
6	3.141582	-0.626595	1.074398
6	1.925765	-0.673874	1.650080
6	3.241971	2.629416	-0.996208
6	3.375698	2.313322	-2.347572
6	3.840056	3.235593	-3.270936
6	4.153201	4.521201	-2.849322
6	4.007607	4.870208	-1.514212
6	3.559314	3.924502	-0.602104
6	4.828203	0.298742	-0.566968
6	5.019980	-0.768190	-1.439725
6	6.213450	-0.959419	-2.115817
6	7.255131	-0.061348	-1.918347
6	7.096673	1.009432	-1.049192
6	5.891660	1.177773	-0.381658
6	4.153591	-1.687413	1.331121
6	3.934717	-3.007000	0.946345
6	4.875764	-3.998507	1.182212
6	6.070035	-3.671779	1.810971
6	6.318982	-2.361204	2.198147
6	5.360214	-1.389970	1.956202
6	1.631793	-1.744235	2.633157
6	0.656077	-2.703639	2.386431
6	0.331670	-3.682561	3.313654
6	1.000132	-3.715123	4.530056
6	1.987759	-2.778637	4.803351
6	2.293678	-1.810769	3.857333
6	-0.213077	0.725904	2.523584
6	0.089277	1.669033	3.502151
6	-0.768972	1.981875	4.546654
6	-1.974453	1.304701	4.658837
6	-2.297771	0.319612	3.737943
6	-1.417727	0.050523	2.697270
5	0.830034	0.463773	1.327247
6	1.532557	1.804893	0.724637
8	0.995620	2.902718	0.719258
6	-1.455748	-0.691685	-1.528406
6	-2.798241	-0.894323	-1.596164
6	-3.792700	-0.160557	-0.748186
6	-3.451005	0.979488	-0.087780

6	-0.434284	-1.603119	-2.092347
6	-0.309759	-2.901117	-1.601720
6	0.812477	-3.670232	-1.864982
6	1.825257	-3.148008	-2.657621
6	1.699512	-1.879784	-3.209756
6	0.574825	-1.122896	-2.924097
6	-3.261940	-1.970767	-2.510001
6	-3.831172	-3.161854	-2.064366
6	-4.245835	-4.142720	-2.952977
6	-4.075002	-3.948764	-4.317239
6	-3.483100	-2.783316	-4.787033
6	-3.072554	-1.816590	-3.883344
6	-5.105801	-0.827629	-0.582869
6	-5.482880	-1.332519	0.658221
6	-6.703850	-1.963148	0.842559
6	-7.571799	-2.100519	-0.232820
6	-7.218837	-1.606534	-1.482310
6	-5.997241	-0.972227	-1.640945
6	-4.295738	1.699251	0.884058
6	-5.691681	1.805918	0.919026
6	-6.353297	2.437261	1.965026
6	-5.639789	3.042094	2.989421
6	-4.251922	3.046858	2.938436
6	-3.624290	2.417632	1.881434
6	-1.621844	2.832233	-1.061574
6	-2.474663	3.947193	-1.074948
6	-2.116133	5.164724	-1.626637
6	-0.868699	5.300925	-2.221353
6	0.002557	4.220163	-2.260406
6	-0.387756	3.018775	-1.701061
5	-1.983571	1.486550	-0.389463
6	-0.972248	0.257284	-0.511403
8	0.084837	-0.083295	0.056695
9	3.063542	1.087935	-2.779397
9	3.966076	2.908641	-4.554974
9	4.588599	5.418490	-3.726438
9	4.320801	6.100116	-1.113589
9	3.497876	4.263416	0.682250
9	5.771210	2.206540	0.454427
9	4.030752	-1.646500	-1.627065
9	8.099109	1.860631	-0.857182
9	8.403591	-0.229711	-2.559761
9	6.367440	-1.984518	-2.946942
9	2.801138	-3.347272	0.328044
9	5.612694	-0.131947	2.321375
9	7.464620	-2.052519	2.798144
9	6.976785	-4.613261	2.039877
9	4.646985	-5.253119	0.806144
9	0.024307	-2.704508	1.211762
9	-0.600831	-4.591798	3.043737
9	0.701120	-4.646880	5.428296
9	2.632105	-2.815139	5.966955
9	3.253742	-0.929001	4.144285
9	-1.817210	-0.878012	1.804997
9	-3.457880	-0.325937	3.843979
9	-2.824458	1.604131	5.635214
9	-0.449001	2.915680	5.438771
9	1.259045	2.316496	3.465890
9	-2.290886	2.545492	1.791593
9	-7.679636	2.491700	1.965731
9	-6.459554	1.355517	-0.069699
9	-6.275054	3.644258	3.980434
9	-3.540286	3.665325	3.873603
9	-3.686499	3.884574	-0.532191
9	-2.953965	6.193104	-1.600344
9	-0.514832	6.452824	-2.757135
9	1.187715	4.349760	-2.845150
9	0.468161	2.002338	-1.804182
9	-4.661589	-1.218805	1.698249
9	-7.043160	-2.443807	2.033420
9	-8.739436	-2.704785	-0.067148
9	-8.055238	-1.731827	-2.506925
9	-5.686926	-0.474538	-2.838602
9	-3.966397	-3.396931	-0.761922
9	-4.787406	-5.269085	-2.505236
9	-4.466070	-4.881784	-5.171247
9	-3.308690	-2.605885	-6.091104
9	-2.485340	-0.718058	-4.351270
9	-1.267126	-3.413297	-0.832249
9	0.939555	-4.882730	-1.338571
9	2.918121	-3.860221	-2.886286
9	2.665810	-1.391730	-3.978492
9	0.476119	0.095769	-3.446577

124

TS[2bA,3b] E(RM062X) = -7856.45148355

6	2.992419	1.380350	0.068391
6	3.680259	0.217007	-0.000816
6	3.281742	-1.023212	0.717497
6	2.113215	-1.138162	1.382039
6	3.436153	2.622508	-0.597255
6	3.622825	2.713999	-1.972443
6	4.003471	3.903365	-2.579014
6	4.195474	5.036147	-1.802803
6	4.014631	4.974200	-0.426337
6	3.637958	3.776113	0.158163
6	4.932282	0.151350	-0.799002
6	5.013341	-0.701081	-1.896711
6	6.164287	-0.800412	-2.660511
6	7.268415	-0.025153	-2.327082
6	7.214892	0.834394	-1.238489
6	6.051704	0.914164	-0.485235
6	4.250122	-2.153246	0.678394
6	3.902008	-3.365246	0.088186
6	4.794699	-4.425580	0.024177
6	6.067651	-4.280454	0.558583
6	6.442016	-3.082473	1.154601
6	5.530628	-2.040347	1.210676
6	1.882210	-2.318012	2.248918
6	0.762290	-3.131499	2.100439
6	0.506463	-4.207516	2.936519
6	1.386694	-4.490124	3.971555
6	2.510521	-3.697020	4.155933
6	2.744064	-2.628198	3.302758
6	0.120765	0.271400	2.595373
6	0.656324	1.084971	3.589781
6	-0.055609	1.497219	4.704512
6	-1.359166	1.050557	4.870905
6	-1.920032	0.196546	3.933199
6	-1.179142	-0.169918	2.814270
5	1.020282	0.035095	1.279891
6	1.671301	1.426472	0.758358
8	1.027245	2.470307	0.763880
6	-1.726535	-0.660791	-1.274754
6	-3.076801	-0.505842	-1.200185
6	-3.758401	0.514706	-0.347185
6	-3.060652	1.529578	0.230502
6	-1.058571	-1.834975	-1.879081
6	-1.251405	-3.115801	-1.368111
6	-0.495312	-4.191373	-1.807098
6	0.476998	-3.991628	-2.778338
6	0.680781	-2.726568	-3.315395
6	-0.092568	-1.667210	-2.867372
6	-3.907426	-1.490317	-1.940087
6	-4.701084	-2.433696	-1.292057
6	-5.467946	-3.344068	-2.002468
6	-5.434842	-3.328696	-3.391173
6	-4.631908	-2.414761	-4.061632
6	-3.870406	-1.515105	-3.332738
6	-5.208041	0.303901	-0.114183
6	-5.690736	0.003462	1.154770
6	-7.046106	-0.171572	1.390974
6	-7.944366	-0.053410	0.338430
6	-7.487477	0.240093	-0.940400
6	-6.130020	0.420434	-1.149629
6	-3.593631	2.481000	1.220945
6	-4.879036	3.030037	1.292999
6	-5.275457	3.813519	2.367466
6	-4.381388	4.115841	3.387309
6	-3.071929	3.663784	3.304082
6	-2.701245	2.902695	2.210342
6	-1.096545	2.744044	-1.228445
6	-1.843591	3.906668	-1.467235

6	-1.471247	4.862831	-2.398613
6	-0.328739	4.662200	-3.160517
6	0.434551	3.514279	-2.980678
6	0.054803	2.596750	-2.018732
5	-1.563574	1.624481	-0.264283
6	-0.902437	0.182527	-0.395262
8	0.099877	-0.385817	0.082724
9	3.491094	3.730751	1.480113
9	3.418212	1.651447	-2.751791
9	4.154191	3.966514	-3.898810
9	4.550738	6.181546	-2.373502
9	4.208975	6.061299	0.315952
9	1.503449	3.309023	-3.743366
9	0.821154	1.514094	-1.885861
9	0.024883	5.551599	-4.068460
9	-2.206233	5.952402	-2.580065
9	-2.968423	4.144993	-0.799690
9	-1.412713	2.566813	2.088199
9	-2.185606	3.965717	4.246165
9	-4.768887	4.859014	4.410762
9	-6.509109	4.302796	2.410032
9	-5.763882	2.866574	0.312809
9	-4.842993	-0.123847	2.171397
9	-7.487806	-0.462027	2.609637
9	-5.705943	0.729383	-2.375984
9	-8.350258	0.358055	-1.943866
9	-9.240973	-0.223502	0.553674
9	-4.713419	-2.491936	0.037215
9	-3.091801	-0.658492	-3.988588
9	-4.594941	-2.411099	-5.388788
9	-6.162744	-4.195709	-4.077865
9	-6.217753	-4.236106	-1.366544
9	-2.156115	-3.320703	-0.414215
9	-0.681019	-5.401847	-1.292487
9	1.211214	-5.011940	-3.196489
9	1.606165	-2.542471	-4.249984
9	0.108930	-0.459745	-3.389123
9	-1.811935	-0.937298	1.904831
9	-3.161631	-0.249117	4.112791
9	-2.069564	1.440096	5.924705
9	0.486287	2.311473	5.606562
9	1.914035	1.532717	3.462480
9	-0.099587	-2.888589	1.110949
9	-0.568021	-4.968862	2.750110
9	1.155365	-5.516253	4.781856
9	3.352421	-3.961568	5.151633
9	3.829970	-1.884399	3.524178
9	2.685933	-3.530765	-0.435451
9	4.442730	-5.573971	-0.546796
9	6.928482	-5.288879	0.501816
9	7.660282	-2.950524	1.671020
9	5.899488	-0.895561	1.787736
9	3.955290	-1.444959	-2.226714
9	6.218609	-1.618418	-3.706891
9	8.376619	-0.107341	-3.051596
9	8.276889	1.568077	-0.920442
9	6.028545	1.734840	0.562433
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3b	E(RM062X) =	-7856.52173749	
6	2.429012	1.458009	0.233818
6	3.525247	0.654119	0.139599
6	3.477292	-0.819646	0.078282
6	2.330486	-1.498026	0.306267
6	2.436213	2.919258	-0.017501
6	1.925657	3.396558	-1.223362
6	1.774642	4.751341	-1.465383
6	2.147319	5.661186	-0.483148
6	2.678740	5.213115	0.718684
6	2.814807	3.848799	0.942530
6	4.842995	1.301630	-0.107593
6	5.301673	1.450279	-1.411839
6	6.527701	2.034891	-1.684940
6	7.316297	2.477906	-0.629247
6	6.882775	2.329381	0.681302
6	5.650740	1.740393	0.934032
6	4.694802	-1.505387	-0.430233
6	4.695809	-2.071962	-1.702030
6	5.821060	-2.705278	-2.210574
6	6.974391	-2.770756	-1.440098
6	7.000094	-2.210580	-0.168520
6	5.861009	-1.591660	0.321567
6	2.287623	-2.969859	0.146480
6	1.438510	-3.591144	-0.768934
6	1.385389	-4.973357	-0.891447
6	2.153241	-5.772111	-0.057041
6	3.005709	-5.181868	0.867488
6	3.067484	-3.800273	0.951681
6	1.026892	-0.701307	2.482505
6	1.102170	0.426914	3.290872
6	1.027728	0.373582	4.676633
6	0.856154	-0.852170	5.300913
6	0.755597	-2.004718	4.533673
6	0.842912	-1.909041	3.153414
5	1.051914	-0.691869	0.847727
6	1.133047	0.818531	0.314907
8	0.138681	1.509974	-0.072658
6	-2.500708	-1.333844	-0.063787
6	-3.621274	-0.555723	-0.075738
6	-3.598837	0.919677	0.094757
6	-2.444379	1.616045	-0.047346
6	-2.425936	-2.813613	-0.066947
6	-1.993265	-3.462858	1.086309
6	-1.600946	-4.790456	1.068887
6	-1.663164	-5.495673	-0.126673
6	-2.118003	-4.880467	-1.285377
6	-2.487169	-3.543200	-1.247711
6	-4.943032	-1.214214	-0.201434
6	-5.385242	-2.181636	0.697444
6	-6.631382	-2.775401	0.561613
6	-7.458823	-2.400485	-0.488726
6	-7.045642	-1.429918	-1.393522
6	-5.799562	-0.845051	-1.237420
6	-4.894163	1.563245	0.432847
6	-5.622025	1.148683	1.547071
6	-6.840812	1.710257	1.885290
6	-7.354403	2.736653	1.101500
6	-6.648674	3.182270	-0.006189
6	-5.432540	2.594824	-0.331574
6	-2.328027	3.050010	0.276760
6	-2.789858	3.584103	1.483882
6	-2.594224	4.914786	1.825548
6	-1.899818	5.751749	0.965273
6	-1.402417	5.248810	-0.229635
6	-1.608611	3.917126	-0.551303
6	-1.021097	0.601462	-2.157418
6	-2.002288	0.950745	-3.085190
6	-1.867085	0.727517	-4.449607
6	-0.712567	0.140025	-4.944819
6	0.298955	-0.211141	-4.065190
6	0.120652	0.025158	-2.711039
5	-1.135139	0.830194	-0.529870
6	-1.222754	-0.663013	0.030277
8	-0.237810	-1.357085	0.421776
9	0.724682	-3.051480	2.460860
9	0.578657	-3.182787	5.125194
9	0.778883	-0.922793	6.624098
9	1.105534	1.485160	5.403590
9	1.227095	1.651607	2.749821
9	1.555994	2.534406	-2.169825
9	1.275342	5.180787	-2.617790
9	1.994250	6.960290	-0.697094
9	3.040693	6.088377	1.651457
9	3.310591	3.438324	2.107433
9	4.547341	1.008367	-2.418410
9	5.263926	1.575376	2.193999
9	7.649390	2.743336	1.683552
9	8.491093	3.040233	-0.876049
9	6.951905	2.174852	-2.935528
9	3.598077	-2.016808	-2.454923
9	5.893489	-1.052931	1.541222
9	8.106498	-2.279406	0.564830
9	8.055833	-3.371419	-1.918980

9	5.804934	-3.243653	-3.425670
9	0.672810	-2.871687	-1.591295
9	0.597442	-5.539478	-1.805439
9	2.087304	-7.092357	-0.156880
9	3.746893	-5.942193	1.666993
9	3.876641	-3.260924	1.864679
9	-2.853879	-2.942147	-2.378033
9	-2.141237	-5.559285	-2.426792
9	-1.144880	-5.382013	2.167468
9	-1.906336	-2.777732	2.224457
9	-1.244162	-6.753845	-0.169532
9	-5.130370	0.177293	2.320898
9	-4.789327	3.049609	-1.403086
9	-7.142312	4.163203	-0.755594
9	-8.518140	3.290455	1.414980
9	-7.511228	1.290068	2.953573
9	-5.416350	0.094323	-2.100591
9	-7.841228	-1.072864	-2.394506
9	-8.649039	-2.965368	-0.625036
9	-7.041236	-3.688226	1.434446
9	-4.630167	-2.525243	1.737404
9	-3.397577	2.809464	2.382342
9	-3.047002	5.381775	2.984409
9	-1.703778	7.022941	1.284356
9	-0.724543	6.048967	-1.050458
9	-1.088768	3.465045	-1.695061
9	1.152657	-0.323369	-1.921879
9	1.421927	-0.765371	-4.513557
9	-0.576080	-0.075030	-6.247060
9	-2.837003	1.085256	-5.287986
9	-3.133265	1.548795	-2.705636

124

TS[3,3bA] E(RM062X) = -7856.49414857

6	2.418597	1.392991	0.220855
6	3.541877	0.606425	0.240473
6	3.534951	-0.859876	0.211086
6	2.376375	-1.554839	0.322317
6	2.417593	2.843686	-0.092535
6	1.911276	3.262362	-1.322217
6	1.757867	4.602666	-1.632046
6	2.116704	5.561142	-0.691690
6	2.635024	5.173106	0.536370
6	2.774573	3.821640	0.826491
6	4.863393	1.278481	0.097779
6	5.438702	1.409755	-1.161252
6	6.677369	2.006609	-1.331231
6	7.361388	2.476313	-0.216020
6	6.811813	2.342428	1.051851
6	5.568754	1.741768	1.201873
6	4.813411	-1.533416	-0.145112
6	4.968170	-2.131161	-1.392480
6	6.150811	-2.761660	-1.752942
6	7.208812	-2.792967	-0.854533
6	7.081472	-2.201730	0.396458
6	5.886788	-1.587123	0.737095
6	2.356224	-3.025056	0.143533
6	1.592001	-3.636430	-0.851387
6	1.470344	-5.017148	-0.928607
6	2.107767	-5.824024	0.002709
6	2.899818	-5.244069	0.985665
6	3.018370	-3.864556	1.038421
6	0.878458	-0.802522	2.380645
6	0.843476	0.328702	3.190354
6	0.675448	0.280425	4.568039
6	0.528473	-0.948585	5.191474
6	0.547535	-2.106504	4.427505
6	0.729278	-2.011390	3.056554
5	1.012521	-0.797244	0.734579
6	1.145662	0.743723	0.283136
8	0.125710	1.466977	-0.054444
6	-2.523221	-1.336932	0.027095
6	-3.634509	-0.591694	0.250227
6	-3.598917	0.883810	0.304252
6	-2.453904	1.594102	0.089024
6	-2.429422	-2.818972	0.021164
6	-1.923022	-3.472467	1.140174
6	-1.477372	-4.782878	1.077219
6	-1.540675	-5.462604	-0.131920
6	-2.051266	-4.839537	-1.263570
6	-2.484148	-3.524020	-1.175323
6	-4.950683	-1.273875	0.417313
6	-5.205267	-2.108262	1.502863
6	-6.427006	-2.743105	1.673621
6	-7.440391	-2.538767	0.748901
6	-7.225088	-1.699558	-0.335363
6	-5.993319	-1.081208	-0.488791
6	-4.888730	1.579731	0.545053
6	-5.618415	1.388025	1.714616
6	-6.838746	2.007972	1.924578
6	-7.347366	2.855148	0.947133
6	-6.637674	3.072373	-0.225660
6	-5.419320	2.435309	-0.415540
6	-2.352762	3.055470	0.280726
6	-2.810277	3.706765	1.428252
6	-2.622016	5.067332	1.627157
6	-1.933822	5.811857	0.680702
6	-1.437416	5.190326	-0.457815
6	-1.643140	3.832392	-0.639297
6	-1.157978	-0.105719	-1.906871
6	-2.259232	0.017264	-2.772010
6	-2.141292	0.027224	-4.153590
6	-0.894284	-0.088076	-4.746445
6	0.225198	-0.203251	-3.939118
6	0.080529	-0.215031	-2.561340
5	-1.154311	0.819720	-0.213657
6	-1.210611	-0.692284	-0.174428
8	-0.149207	-1.459231	0.099583
9	0.728876	-3.167889	2.378252
9	0.396384	-3.292238	5.012357
9	0.362766	-1.016867	6.507162
9	0.646483	1.399864	5.287964
9	0.953070	1.561280	2.658186
9	1.538802	2.355141	-2.226578
9	1.269363	4.971335	-2.809733
9	1.961336	6.847573	-0.969993
9	2.979006	6.092985	1.431940
9	3.251555	3.470597	2.018485
9	4.788997	0.936025	-2.224364
9	5.073816	1.587492	2.424492
9	7.479895	2.779904	2.112671
9	8.547797	3.048467	-0.363723
9	7.212492	2.129509	-2.540226
9	3.963648	-2.110853	-2.267559
9	5.774540	-1.019721	1.938803
9	8.096754	-2.237560	1.253510
9	8.344919	-3.389888	-1.190344
9	6.279016	-3.328638	-2.948320
9	0.983413	-2.921537	-1.795814
9	0.731989	-5.569507	-1.891206
9	1.978279	-7.142096	-0.059714
9	3.519198	-6.010938	1.878121
9	3.736808	-3.330791	2.028047
9	-2.905046	-2.908405	-2.282936
9	-2.083242	-5.491649	-2.420599
9	-0.953150	-5.376830	2.143881
9	-1.786093	-2.806258	2.283239
9	-1.072174	-6.702297	-0.212524
9	-5.129257	0.593987	2.667936
9	-4.763085	2.647811	-1.554149
9	-7.130511	3.880147	-1.159473
9	-8.512600	3.459224	1.137825
9	-7.516609	1.811591	3.051062
9	-5.836796	-0.265992	-1.531180
9	-8.195287	-1.494326	-1.220400
9	-8.613062	-3.137723	0.903190
9	-6.633436	-3.532251	2.722900
9	-4.271266	-2.299962	2.429725
9	-3.410898	3.022677	2.401834
9	-3.073430	5.652550	2.731436
9	-1.742166	7.110450	0.864414
9	-0.763099	5.904280	-1.357273
9	-1.129970	3.257516	-1.732001

9	1.228487	-0.321458	-1.893113
9	1.432851	-0.302013	-4.479456
9	-0.774795	-0.079000	-6.061066
9	-3.225648	0.150420	-4.909069
9	-3.496375	0.150642	-2.320094
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3bA	E(RM062X) =	-7856.51023767	
6	2.510060	1.261577	0.282528
6	3.615598	0.476680	0.010748
6	3.628469	-0.983139	0.031382
6	2.486261	-1.702911	0.209756
6	2.466008	2.737972	0.107728
6	2.254762	3.280686	-1.157537
6	2.007517	4.632233	-1.338644
6	1.959614	5.468295	-0.230240
6	2.170290	4.954395	1.042019
6	2.412755	3.596531	1.200463
6	4.852772	1.169282	-0.418197
6	5.393008	0.921846	-1.679996
6	6.540828	1.564882	-2.113684
6	7.171171	2.473894	-1.271987
6	6.653236	2.738073	-0.010167
6	5.498462	2.091286	0.402038
6	4.939547	-1.657551	-0.170554
6	5.159421	-2.524380	-1.236663
6	6.376424	-3.167844	-1.409118
6	7.404951	-2.941095	-0.504294
6	7.214959	-2.076576	0.566510
6	5.987445	-1.452993	0.722191
6	2.540674	-3.180288	0.274099
6	1.809313	-3.990937	-0.594817
6	1.710819	-5.358686	-0.392609
6	2.361921	-5.950040	0.682171
6	3.117972	-5.171740	1.546330
6	3.199791	-3.803858	1.332252
6	0.731748	-1.298184	2.163647
6	0.784028	-0.365537	3.195596
6	0.336396	-0.619873	4.485520
6	-0.194379	-1.864859	4.788710
6	-0.257585	-2.834451	3.799136
6	0.219660	-2.541068	2.530964
5	1.080979	-0.995013	0.569935
6	1.278600	0.599655	0.440439
8	0.214575	1.380879	0.393207
6	-2.381474	-1.343264	0.022280
6	-3.436043	-0.647383	0.501565
6	-3.463966	0.846711	0.474571
6	-2.325401	1.581243	0.388031
6	-2.324798	-2.822972	-0.014963
6	-2.507129	-3.621867	1.111536
6	-2.312665	-4.995729	1.086071
6	-1.904249	-5.608883	-0.087985
6	-1.710734	-4.843782	-1.231689
6	-1.916848	-3.476835	-1.178817
6	-4.664527	-1.356040	0.959014
6	-4.949560	-1.494423	2.315058
6	-6.088527	-2.147222	2.759212
6	-6.969808	-2.689332	1.833424
6	-6.705755	-2.579573	0.475634
6	-5.559921	-1.920024	0.053873
6	-4.786127	1.525815	0.361539
6	-5.723604	1.600422	1.387796
6	-6.951291	2.221500	1.217561
6	-7.256146	2.813433	-0.000549
6	-6.327174	2.793094	-1.030999
6	-5.104159	2.167353	-0.837651
6	-2.283468	3.055956	0.406246
6	-2.900821	3.828401	1.389560
6	-2.771836	5.210086	1.423146
6	-2.000666	5.853467	0.464526
6	-1.371915	5.113008	-0.528658
6	-1.516929	3.735918	-0.542442
6	-1.173377	-0.126886	-1.945474
6	-2.345728	0.113982	-2.670272
6	-2.348713	0.727645	-3.914516
6	-1.154517	1.095478	-4.512960
6	0.033974	0.836595	-3.850595
6	0.010830	0.237919	-2.599188
5	-1.028765	0.792520	0.174350
6	-1.115639	-0.637911	-0.471321
8	-0.001189	-1.464239	-0.297183
9	0.142916	-3.539256	1.638333
9	-0.780022	-4.030451	4.058150
9	-0.638439	-2.123497	6.012670
9	0.403858	0.320174	5.425384
9	1.265486	0.869187	2.969858
9	2.259258	2.483952	-2.226477
9	1.792221	5.126220	-2.551884
9	1.697120	6.757747	-0.388053
9	2.118663	5.758562	2.098741
9	2.569096	3.120542	2.431412
9	4.791757	0.059612	-2.496418
9	5.019417	2.348541	1.614971
9	7.264483	3.602422	0.789687
9	8.269328	3.092111	-1.675511
9	7.035392	1.324939	-3.321176
9	4.192174	-2.746235	-2.124428
9	5.814218	-0.621438	1.751597
9	8.201380	-1.862342	1.431199
9	8.572718	-3.549274	-0.664086
9	6.566732	-3.990517	-2.435589
9	1.178997	-3.470557	-1.643776
9	0.983803	-6.111431	-1.216465
9	2.267776	-7.258934	0.875830
9	3.745276	-5.734862	2.574704
9	3.899533	-3.071616	2.202061
9	-1.707218	-2.776365	-2.292511
9	-1.338121	-5.422574	-2.367667
9	-2.459550	-5.709812	2.197942
9	-2.766405	-3.070123	2.299579
9	-1.689686	-6.917159	-0.121999
9	-5.434665	1.110614	2.591240
9	-4.220341	2.215938	-1.835314
9	-6.605797	3.381971	-2.188811
9	-8.424872	3.414154	-0.172446
9	-7.822841	2.275459	2.218853
9	-5.327106	-1.841231	-1.254024
9	-7.547409	-3.105182	-0.410380
9	-8.062261	-3.317779	2.247694
9	-6.337577	-2.264438	4.060381
9	-4.109191	-1.002060	3.219874
9	-3.616542	3.243493	2.349290
9	-3.367031	5.917514	2.376990
9	-1.868871	7.171738	0.492332
9	-0.637017	5.728456	-1.452762
9	-0.900366	3.044379	-1.509780
9	1.210009	0.050914	-2.036783
9	1.194552	1.161521	-4.408180
9	-1.148902	1.673681	-5.705041
9	-3.501272	0.945199	-4.537973
9	-3.540244	-0.247360	-2.207178
124			
TS[3bA,1bTB]		E(RM062X) =	-7856.50875772
6	2.447339	1.357446	0.139569
6	3.560885	0.595965	-0.111929
6	3.568551	-0.869417	-0.080909
6	2.440723	-1.581413	0.186569
6	2.386676	2.834903	0.066134
6	2.700668	3.542133	-1.091743
6	2.439815	4.901034	-1.207007
6	1.834913	5.573438	-0.154470
6	1.510313	4.893479	1.012500
6	1.794817	3.542256	1.111740
6	4.842468	1.298122	-0.361384
6	5.528037	1.143597	-1.562970
6	6.733707	1.783800	-1.799063
6	7.270538	2.606921	-0.816582
6	6.604106	2.783756	0.388879
6	5.398935	2.132154	0.604737
6	4.848573	-1.579537	-0.342447
6	4.958506	-2.441381	-1.430641
6	6.131180	-3.132187	-1.697379

6	7.226730	-2.965280	-0.860919
6	7.143585	-2.116778	0.235318
6	5.958157	-1.442620	0.485983
6	2.443782	-3.048460	0.375796
6	1.625280	-3.912171	-0.357555
6	1.525261	-5.258252	-0.037552
6	2.241480	-5.776227	1.032029
6	3.078425	-4.948055	1.765167
6	3.167211	-3.604411	1.432087
6	1.137865	-0.229209	2.141564
6	2.248308	-0.137031	2.992302
6	2.132478	-0.031104	4.371423
6	0.879789	0.005543	4.964095
6	-0.248906	-0.057255	4.162337
6	-0.098202	-0.158836	2.788724
5	1.084194	-0.831663	0.395182
6	1.187969	0.687230	0.326985
8	0.082820	1.461796	0.249787
6	-2.455781	-1.303155	-0.133341
6	-3.535118	-0.588519	0.225492
6	-3.548077	0.905137	0.252789
6	-2.421354	1.631283	0.061431
6	-2.447628	-2.785506	-0.220025
6	-1.759662	-3.568017	0.707490
6	-1.605503	-4.932640	0.518546
6	-2.150870	-5.543322	-0.603613
6	-2.874728	-4.793990	-1.518806
6	-3.014944	-3.427930	-1.314766
6	-4.793690	-1.315754	0.535653
6	-4.897308	-2.125910	1.661682
6	-6.059065	-2.827559	1.946644
6	-7.148033	-2.721189	1.091330
6	-7.070311	-1.922412	-0.042001
6	-5.894937	-1.236978	-0.310896
6	-4.852689	1.576874	0.471538
6	-5.565046	1.423821	1.657105
6	-6.788326	2.041861	1.856981
6	-7.315891	2.845068	0.852970
6	-6.621770	3.023397	-0.336001
6	-5.399096	2.391980	-0.515102
6	-2.307249	3.099951	0.148053
6	-2.735422	3.862775	1.233146
6	-2.439848	5.216439	1.335385
6	-1.689116	5.836597	0.345878
6	-1.254194	5.105088	-0.752703
6	-1.551916	3.755322	-0.826525
6	-1.061812	-0.628107	-2.119961
6	-2.164901	-0.342552	-2.938721
6	-2.098462	-0.342193	-4.325549
6	-0.897532	-0.591051	-4.966139
6	0.228361	-0.824517	-4.196613
6	0.141692	-0.818398	-2.810334
5	-1.106451	0.844139	-0.088311
6	-1.143099	-0.659945	-0.564081
8	-0.109432	-1.453626	-0.007479
9	-1.242802	-0.187751	2.091823
9	-1.459662	-0.020035	4.706325
9	0.763577	0.105782	6.278114
9	3.222775	0.042748	5.126884
9	3.494333	-0.131469	2.530315
9	3.220137	2.908830	-2.142551
9	2.722459	5.549232	-2.331287
9	1.526836	6.857029	-0.272019
9	0.894112	5.537256	2.000960
9	1.442776	2.893528	2.222060
9	5.011110	0.373624	-2.519299
9	4.779752	2.307203	1.769831
9	7.125025	3.569013	1.325544
9	8.421498	3.227692	-1.032382
9	7.369765	1.627542	-2.954916
9	3.919019	-2.616464	-2.245149
9	5.895124	-0.645159	1.552346
9	8.191432	-1.967154	1.040027
9	8.353970	-3.620149	-1.107001
9	6.214437	-3.946606	-2.745019
9	0.932721	-3.481679	-1.408828
9	0.726055	-6.057769	-0.742964
9	2.128572	-7.059556	1.346290
9	3.769418	-5.437044	2.790556
9	3.947911	-2.824034	2.183467
9	-3.702563	-2.718067	-2.212854
9	-3.414392	-5.379362	-2.583988
9	-0.921091	-5.665104	1.396563
9	-1.237908	-3.025424	1.804163
9	-1.983284	-6.844843	-0.791626
9	-5.052952	0.679688	2.637755
9	-4.753152	2.571078	-1.664633
9	-7.132510	3.791144	-1.293207
9	-8.484159	3.445847	1.033558
9	-7.450085	1.885720	2.998962
9	-5.832062	-0.480389	-1.406750
9	-8.112398	-1.829613	-0.862098
9	-8.264688	-3.386889	1.355891
9	-6.138723	-3.595819	3.028724
9	-3.861547	-2.242234	2.490530
9	-3.402477	3.293303	2.236295
9	-2.846020	5.913564	2.391291
9	-1.381609	7.121726	0.447618
9	-0.527990	5.696753	-1.699667
9	-1.072004	3.050953	-1.856194
9	1.308272	-0.971620	-2.180686
9	1.404348	-1.029082	-4.781460
9	-0.823391	-0.586624	-6.289492
9	-3.191906	-0.086446	-5.036643
9	-3.361897	-0.040841	-2.435916

124

1bTB E(RM062X) = -7856.55434584

6	2.471541	1.149542	0.356298
6	3.541729	0.445743	-0.056208
6	3.582055	-1.044098	0.026376
6	2.444030	-1.765463	0.135562
6	2.347509	2.613040	0.192199
6	2.409589	3.229290	-1.056417
6	2.132193	4.581894	-1.211541
6	1.782992	5.342984	-0.105133
6	1.707228	4.753421	1.150467
6	1.991381	3.405672	1.280698
6	4.740561	1.135593	-0.583428
6	5.231372	0.820941	-1.848071
6	6.365887	1.424843	-2.364458
6	7.032813	2.377418	-1.603838
6	6.567636	2.710737	-0.339069
6	5.433337	2.086613	0.161039
6	4.907416	-1.701027	-0.076031
6	5.156814	-2.670525	-1.045684
6	6.398676	-3.278190	-1.163066
6	7.424195	-2.913842	-0.301642
6	7.206419	-1.944690	0.669513
6	5.957472	-1.353545	0.770862
6	2.424795	-3.220826	0.377742
6	1.670701	-4.096097	-0.404704
6	1.535117	-5.434352	-0.073865
6	2.169827	-5.935290	1.054396
6	2.947228	-5.096199	1.838661
6	3.058778	-3.754857	1.500034
6	1.255048	0.042126	2.371648
6	2.375863	0.064791	3.203231
6	2.332891	-0.406915	4.509801
6	1.153653	-0.911429	5.035558
6	0.015115	-0.937480	4.244757
6	0.085883	-0.467005	2.944104
5	1.113650	-0.950414	0.125290
6	1.224070	0.444390	0.888962
8	0.107144	1.324280	0.699795
6	-2.370810	-1.271108	-0.157451
6	-3.451596	-0.583222	0.248913
6	-3.493736	0.913330	0.221831
6	-2.353726	1.639664	0.186760
6	-2.355084	-2.758156	-0.214883
6	-1.566574	-3.542544	0.629674
6	-1.554014	-4.926123	0.535986
6	-2.319116	-5.564064	-0.430214

6	-3.128847	-4.814382	-1.269031
6	-3.143875	-3.431483	-1.146549
6	-4.642923	-1.335465	0.718488
6	-4.585031	-2.044708	1.915999
6	-5.673194	-2.761705	2.388494
6	-6.850260	-2.779811	1.651111
6	-6.929379	-2.095170	0.445988
6	-5.825333	-1.390091	-0.011940
6	-4.820839	1.570677	0.120980
6	-5.766113	1.530764	1.140366
6	-7.015302	2.114873	0.998315
6	-7.329840	2.773735	-0.183220
6	-6.397707	2.847795	-1.209567
6	-5.155676	2.252576	-1.047216
6	-2.293770	3.112744	0.174721
6	-2.958086	3.939341	1.079750
6	-2.808977	5.320153	1.053272
6	-1.977057	5.909309	0.110042
6	-1.304600	5.113288	-0.808716
6	-1.454021	3.738757	-0.748017
6	-1.160521	-0.084813	-2.100989
6	-2.305905	0.099609	-2.882362
6	-2.253328	0.659515	-4.154431
6	-1.044970	1.057738	-4.700119
6	0.113031	0.905316	-3.952961
6	0.031747	0.360323	-2.683426
5	-1.020147	0.838862	0.147914
6	-1.122512	-0.542144	-0.625579
8	-0.007929	-1.417746	-0.450516
9	-1.050668	-0.524745	2.231784
9	-1.129213	-1.411685	4.722456
9	1.114112	-1.357215	6.282736
9	3.425548	-0.361977	5.263914
9	3.540706	0.557123	2.793649
9	2.703076	2.524059	-2.147907
9	2.171399	5.144079	-2.414418
9	1.486931	6.628376	-0.245739
9	1.349909	5.480915	2.203974
9	1.881413	2.843274	2.484630
9	4.597429	-0.093167	-2.584409
9	5.021302	2.410365	1.384529
9	7.216020	3.615481	0.387994
9	8.118116	2.967664	-2.086916
9	6.813852	1.109228	-3.575480
9	4.200695	-3.027901	-1.900708
9	5.767264	-0.424494	1.707460
9	8.189784	-1.598266	1.493677
9	8.614221	-3.489258	-0.406888
9	6.613682	-4.197817	-2.098363
9	1.061082	-3.657120	-1.503929
9	0.761387	-6.233457	-0.806489
9	2.019465	-7.210550	1.386766
9	3.551755	-5.570482	2.923998
9	3.771145	-2.962394	2.304890
9	-3.951555	-2.747640	-1.955496
9	-3.884313	-5.416965	-2.181363
9	-0.816152	-5.653604	1.373274
9	-0.809471	-2.989916	1.578606
9	-2.288519	-6.884654	-0.532089
9	-5.470748	0.932050	2.293948
9	-4.276575	2.343886	-2.046165
9	-6.700272	3.485323	-2.335750
9	-8.520025	3.340337	-0.327770
9	-7.903110	2.062855	1.986010
9	-5.914410	-0.760684	-1.183259
9	-8.052166	-2.129365	-0.264654
9	-7.898094	-3.461369	2.095057
9	-5.599928	-3.429583	3.535427
9	-3.457618	-2.053335	2.627176
9	-3.738236	3.414198	2.023466
9	-3.448159	6.080118	1.936055
9	-1.832243	7.226142	0.078292
9	-0.518597	5.668223	-1.728565
9	-0.767640	2.991054	-1.622701
9	1.181242	0.335081	-1.989106
9	1.283272	1.306759	-4.433078
9	-0.996961	1.587907	-5.912981
9	-3.375952	0.812812	-4.847090
9	-3.525238	-0.226394	-2.459736
62			
TS[1bAD,4b]E(RM062X) =		-3928.17179796	
5	0.752707	1.191297	-0.066675
8	0.777283	-0.103185	-2.718327
6	0.945348	-0.016296	-1.585340
6	-0.731212	1.072192	0.051928
6	-1.106351	-0.312606	0.166017
6	-0.028428	-1.163959	0.079595
6	1.210556	-0.369163	-0.170189
6	-1.717044	2.160865	0.042242
6	-1.645136	3.166134	-0.923066
6	-2.546367	4.217592	-0.963493
6	-3.553752	4.293784	-0.011656
6	-3.646074	3.319297	0.971631
6	-2.732885	2.275136	0.991828
6	-2.491356	-0.817447	0.260446
6	-3.465251	-0.457500	-0.666902
6	-4.769315	-0.918597	-0.568218
6	-5.116310	-1.771823	0.470718
6	-4.160990	-2.160476	1.399877
6	-2.863715	-1.684520	1.285017
6	-0.086307	-2.615153	-0.141651
6	-0.821780	-3.158351	-1.196174
6	-0.881625	-4.525514	-1.415992
6	-0.190845	-5.382104	-0.568642
6	0.554229	-4.871908	0.486727
6	0.595629	-3.501273	0.691358
6	2.573359	-0.892208	0.115271
6	3.177356	-1.850520	-0.691582
6	4.430827	-2.363580	-0.398978
6	5.097965	-1.915274	0.733929
6	4.513120	-0.964300	1.560543
6	3.258298	-0.462562	1.247678
6	1.728459	2.415369	-0.101635
6	1.473376	3.578284	0.621282
6	2.338688	4.662894	0.627571
6	3.511642	4.605094	-0.112013
6	3.805472	3.466984	-0.850948
6	2.914456	2.406373	-0.830437
9	-0.693297	3.126325	-1.857311
9	-2.454707	5.150135	-1.907900
9	-4.422231	5.297891	-0.038618
9	-4.597410	3.399680	1.898311
9	-2.830115	1.382751	1.980811
9	-3.147982	0.330291	-1.694274
9	-5.680809	-0.564551	-1.468297
9	-6.359795	-2.223077	0.569796
9	-4.494355	-2.982657	2.390007
9	-1.966196	-2.072721	2.190443
9	-1.469747	-2.351329	-2.036889
9	-1.582451	-5.019172	-2.430867
9	-0.240169	-6.691145	-0.769859
9	1.206588	-5.698194	1.297068
9	2.536599	-2.284790	-1.779601
9	1.303329	-3.032866	1.718026
9	4.993013	-3.272762	-1.186156
9	6.295442	-2.399063	1.029056
9	5.154803	-0.545761	2.644779
9	2.707893	0.434755	2.060810
9	0.363096	3.679338	1.359831
9	2.057810	5.752992	1.337161
9	4.349104	5.635440	-0.114260
9	4.924428	3.407365	-1.568278
9	3.222042	1.327773	-1.574951
62			
4b	E(RM062X) =	-3928.17659167	
5	1.272903	0.656983	-0.308380
8	0.712585	-0.945721	-2.987609
6	0.877802	-1.002326	-1.863772
6	-0.039719	1.276125	-0.060185
6	-1.054932	0.249014	-0.061055
6	-0.589060	-1.031677	-0.217453
6	0.912203	-0.984748	-0.451891

6	-0.386335	2.682109	0.188389
6	0.140343	3.703882	-0.603617
6	-0.182203	5.037487	-0.414658
6	-1.057350	5.394485	0.601622
6	-1.582967	4.411627	1.426564
6	-1.235054	3.084173	1.222210
6	-2.507948	0.508474	0.042689
6	-3.144089	1.388626	-0.828309
6	-4.506071	1.638310	-0.744533
6	-5.260407	0.993657	0.225897
6	-4.652340	0.107042	1.104574
6	-3.289605	-0.125420	1.005713
6	-1.394918	-2.243790	-0.425080
6	-2.313728	-2.327217	-1.473470
6	-3.106681	-3.447340	-1.669332
6	-2.983531	-4.527363	-0.805380
6	-2.078909	-4.477992	0.247120
6	-1.307583	-3.341014	0.431738
6	1.826861	-1.940704	0.244475
6	2.412488	-3.030517	-0.383691
6	3.203059	-3.931969	0.312857
6	3.405119	-3.746720	1.673675
6	2.827725	-2.663186	2.325270
6	2.045752	-1.773235	1.607433
6	2.754334	1.137739	-0.427117
6	3.201677	2.303328	0.195587
6	4.506426	2.763171	0.096799
6	5.428561	2.043904	-0.650171
6	5.034467	0.875769	-1.287690
6	3.722578	0.451094	-1.160289
9	1.004504	3.407361	-1.577710
9	0.340635	5.977920	-1.200031
9	-1.379420	6.670778	0.789312
9	-2.399535	4.748007	2.424011
9	-1.723203	2.182726	2.082155
9	-2.446736	2.001523	-1.784399
9	-5.093482	2.477495	-1.592014
9	-6.564263	1.222120	0.313693
9	-5.378346	-0.505584	2.034948
9	-2.728478	-0.965015	1.875649
9	-2.434169	-1.309238	-2.327741
9	-3.969166	-3.500441	-2.679628
9	-3.730009	-5.608401	-0.985572
9	-1.973388	-5.509865	1.078718
9	2.218238	-3.210869	-1.693013
9	-0.474741	-3.308062	1.472542
9	3.756499	-4.966649	-0.307982
9	4.153552	-4.604248	2.352316
9	3.022172	-2.492284	3.627193
9	1.481895	-0.746522	2.236873
9	2.362096	3.025965	0.940563
9	4.880841	3.880639	0.713389
9	6.680793	2.469075	-0.755883
9	5.909323	0.183828	-2.012170
9	3.393165	-0.681140	-1.814859
62			
TS[4,5b]	E(RM062X) =	-3928.14549628	
5	1.263408	-0.545076	-0.442110
8	0.184017	-3.265352	-2.638614
6	0.146848	-2.533424	-1.767430
6	0.440811	0.712342	-0.201380
6	-0.919667	0.469750	-0.407153
6	-1.192532	-0.863086	-0.753982
6	0.051506	-1.601990	-0.774579
6	0.957196	2.029430	0.204156
6	1.901470	2.714164	-0.560252
6	2.413058	3.943099	-0.172275
6	1.976876	4.525103	1.010003
6	1.034174	3.873497	1.791888
6	0.540810	2.642068	1.386058
6	-1.974091	1.484319	-0.194388
6	-1.966318	2.673508	-0.918719
6	-2.935602	3.648023	-0.734002
6	-3.946430	3.438844	0.193889
6	-3.979291	2.262583	0.929802
6	-2.996355	1.303432	0.733309
6	-2.514028	-1.479878	-0.885658
6	-3.516643	-0.914000	-1.676870
6	-4.777537	-1.481987	-1.780529
6	-5.060096	-2.661115	-1.104875
6	-4.080948	-3.258770	-0.322745
6	-2.834758	-2.663342	-0.216949
6	0.878093	-1.924873	0.706401
6	1.746514	-3.025546	0.642846
6	2.065481	-3.804347	1.737698
6	1.476839	-3.517961	2.963433
6	0.578837	-2.462209	3.064836
6	0.266663	-1.700800	1.951607
6	2.789903	-0.583011	-0.824060
6	3.723811	-0.026876	0.043259
6	5.071237	0.074897	-0.270764
6	5.519020	-0.409141	-1.492471
6	4.620787	-0.985579	-2.380519
6	3.281092	-1.059688	-2.031032
9	2.322197	2.198860	-1.717510
9	3.305833	4.574354	-0.931539
9	2.458179	5.704366	1.388849
9	0.618259	4.427430	2.928491
9	-0.350519	2.036214	2.174319
9	-1.017306	2.893590	-1.829463
9	-2.907413	4.773291	-1.442527
9	-4.879914	4.364354	0.378572
9	-4.942753	2.067213	1.825813
9	-3.047302	0.192189	1.468395
9	-3.272923	0.195872	-2.375360
9	-5.707871	-0.916236	-2.543460
9	-6.260602	-3.217444	-1.207108
9	-4.349015	-4.384962	0.331144
9	2.263233	-3.356635	-0.546915
9	-1.919524	-3.249703	0.563396
9	2.905129	-4.825865	1.620876
9	1.762314	-4.251948	4.027279
9	0.015919	-2.186995	4.235756
9	-0.607900	-0.719429	2.104578
9	3.325439	0.443289	1.232512
9	5.932987	0.623858	0.582485
9	6.805752	-0.322533	-1.810780
9	5.050879	-1.456464	-3.548874
9	2.440306	-1.626266	-2.910245
62			
5b	E(RM062X) =	-3928.201938	
5	1.192614	-0.883844	-0.037900
8	-0.138028	-4.052831	-1.646117
6	-0.101054	-3.000780	-1.210890
6	0.354402	0.518190	0.135527
6	-0.944983	0.369683	-0.260574
6	-1.201592	-0.965912	-0.762892
6	-0.062929	-1.742179	-0.705334
6	0.772909	1.832522	0.671585
6	1.737965	2.615450	0.045270
6	2.093646	3.868925	0.520444
6	1.469874	4.375854	1.650589
6	0.489042	3.629229	2.289516
6	0.143800	2.384004	1.789721
6	-2.001577	1.400682	-0.186773
6	-1.883965	2.615612	-0.856249
6	-2.866580	3.590118	-0.770270
6	-4.003325	3.350020	-0.008893
6	-4.150098	2.144175	0.663811
6	-3.148674	1.189586	0.572173
6	-2.518519	-1.396871	-1.259768
6	-3.210730	-0.647900	-2.214174
6	-4.469272	-1.022677	-2.655634
6	-5.063147	-2.168082	-2.139247
6	-4.394702	-2.937706	-1.195674
6	-3.132662	-2.552309	-0.773196
6	1.606966	-1.637720	1.354678
6	2.038391	-2.958364	1.264157
6	2.460678	-3.716255	2.343970
6	2.466800	-3.136789	3.605191
6	2.054906	-1.821908	3.749639
6	1.639404	-1.102539	2.634295

6	2.529722	-0.794956	-0.960001
6	3.629353	-0.111463	-0.449507
6	4.851567	-0.025435	-1.094187
6	5.013494	-0.662728	-2.317324
6	3.952743	-1.365607	-2.863627
6	2.743264	-1.420977	-2.179502
9	2.321251	2.188214	-1.073950
9	3.014730	4.591191	-0.111491
9	1.803105	5.573050	2.115978
9	-0.115019	4.113595	3.371319
9	-0.808690	1.699914	2.424341
9	-0.813711	2.857134	-1.612022
9	-2.735305	4.742339	-1.419728
9	-4.951178	4.273927	0.074537
9	-5.236371	1.919365	1.395888
9	-3.293928	0.042829	1.237707
9	-2.647598	0.431369	-2.750334
9	-5.101558	-0.304683	-3.574021
9	-6.263594	-2.532597	-2.556672
9	-4.963325	-4.031418	-0.707149
9	2.054723	-3.561180	0.057048
9	-2.509955	-3.308059	0.129703
9	2.855304	-4.978431	2.185421
9	2.866117	-3.836633	4.662810
9	2.064005	-1.253463	4.954647
9	1.271085	0.164593	2.857284
9	3.510930	0.527544	0.726326
9	5.864112	0.656064	-0.559644
9	6.177205	-0.597019	-2.957858
9	4.098196	-1.987116	-4.033759
9	1.771306	-2.140338	-2.770703
62			
TS[5,1bKD] E(RM062X) =		-3928.17893169	
5	1.367408	-0.984840	-0.387705
8	0.378161	-4.505920	-1.007779
6	0.304574	-3.374668	-0.811585
6	0.497983	0.320027	-0.339175
6	-0.901730	-0.046162	-0.385827
6	-1.062818	-1.398152	-0.582756
6	0.211164	-2.059517	-0.605620
6	0.779720	1.773958	-0.458653
6	1.054071	2.298779	-1.719156
6	1.206955	3.662578	-1.923448
6	1.054216	4.537512	-0.857629
6	0.727860	4.047087	0.399713
6	0.566553	2.682064	0.576995
6	-1.986137	0.937112	-0.170728
6	-2.333361	1.857219	-1.157412
6	-3.297641	2.829708	-0.945306
6	-3.944275	2.891526	0.282882
6	-3.621361	1.989065	1.285594
6	-2.646659	1.028691	1.050649
6	-2.372452	-2.069534	-0.674922
6	-3.357995	-1.598862	-1.545530
6	-4.604378	-2.198996	-1.633930
6	-4.890565	-3.306145	-0.846958
6	-3.926992	-3.808842	0.016421
6	-2.686085	-3.195005	0.089995
6	1.303903	-0.358077	1.258403
6	2.376796	0.448049	1.671445
6	2.661146	0.715117	2.998538
6	1.846442	0.179720	3.986460
6	0.772222	-0.625045	3.631386
6	0.517936	-0.886856	2.295094
6	2.868350	-1.300260	-0.822009
6	3.728308	-0.447136	-1.505281
6	5.025955	-0.798566	-1.854521
6	5.516104	-2.047383	-1.506163
6	4.704348	-2.926260	-0.804659
6	3.416788	-2.532605	-0.474367
9	1.110596	1.495621	-2.776179
9	1.474666	4.134146	-3.137022
9	1.198611	5.843143	-1.042554
9	0.547673	4.886322	1.415005
9	0.181259	2.248579	1.782296
9	-1.730242	1.810744	-2.344692
9	-3.613370	3.695078	-1.904234
9	-4.871927	3.816033	0.496175
9	-4.236677	2.053100	2.462685
9	-2.337758	0.187797	2.037241
9	-3.110233	-0.563904	-2.346399
9	-5.518580	-1.730254	-2.475949
9	-6.078525	-3.887124	-0.924787
9	-4.195924	-4.871346	0.766306
9	3.163113	1.025430	0.764582
9	-1.785497	-3.715274	0.924675
9	3.691118	1.486005	3.330227
9	2.095619	0.427848	5.260749
9	0.004878	-1.156388	4.576885
9	-0.504464	-1.692956	2.044146
9	3.342523	0.785942	-1.841534
9	5.804169	0.059968	-2.510977
9	6.755232	-2.396656	-1.833764
9	5.165445	-4.123868	-0.449898
9	2.679851	-3.412352	0.226253
62			
1bKD E(RM062X) =		-3928.21415741	
5	1.308181	-1.020232	-0.732572
8	0.073199	-4.078028	-2.305872
6	0.110565	-3.064587	-1.761015
6	0.635747	0.306558	-0.044679
6	-0.871815	-0.019555	-0.147283
6	-1.121114	-1.192316	-0.752704
6	0.123533	-1.883171	-1.144849
6	0.815569	1.616608	-0.801385
6	1.216148	1.613432	-2.131084
6	1.246807	2.757192	-2.913792
6	0.850737	3.966325	-2.362767
6	0.443776	4.012486	-1.037029
6	0.423917	2.849812	-0.283082
6	-1.916801	0.897619	0.359366
6	-2.424635	1.937901	-0.419997
6	-3.363253	2.830569	0.074841
6	-3.825627	2.688075	1.376146
6	-3.347200	1.657777	2.172883
6	-2.404157	0.779931	1.658282
6	-2.454762	-1.809047	-0.918481
6	-3.495153	-1.202226	-1.617254
6	-4.742511	-1.799596	-1.733107
6	-4.969331	-3.037616	-1.149110
6	-3.948913	-3.673227	-0.454307
6	-2.712902	-3.055626	-0.346795
6	1.140520	0.318622	1.406635
6	2.005410	1.265211	1.966315
6	2.451576	1.186263	3.280500
6	2.072255	0.128679	4.088611
6	1.250446	-0.853395	3.561012
6	0.822426	-0.756437	2.246250
6	2.823146	-1.395640	-0.708755
6	3.828401	-0.430018	-0.621424
6	5.177852	-0.737741	-0.564476
6	5.569023	-2.069842	-0.587672
6	4.610134	-3.069233	-0.670681
6	3.270011	-2.718642	-0.733333
9	1.602129	0.461568	-2.701751
9	1.647391	2.698212	-4.180301
9	0.867191	5.072715	-3.095685
9	0.060205	5.166878	-0.499364
9	0.002994	2.947557	0.982474
9	-1.998593	2.115643	-1.671263
9	-3.823982	3.817943	-0.687666
9	-4.726633	3.535392	1.856450
9	-3.794405	1.517606	3.417397
9	-1.963876	-0.199918	2.448843
9	-3.310958	-0.026544	-2.213553
9	-5.715514	-1.197315	-2.409123
9	-6.157965	-3.615273	-1.257681
9	-4.164404	-4.857874	0.107212
9	2.462533	2.311696	1.277162
9	-1.747562	-3.683959	0.326817
9	3.256943	2.130598	3.759528
9	2.499967	0.050056	5.342140

9	0.894895	-1.898421	4.302511
9	0.097503	-1.779692	1.785792
9	3.504858	0.864670	-0.595996
9	6.093657	0.222496	-0.489255
9	6.853837	-2.385123	-0.532097
9	4.980377	-4.345605	-0.690043
9	2.396276	-3.727176	-0.806190
76			
1c	E(RM062X) =	-2863.41824072	
5	3.029935	0.131979	-0.001288
5	-0.758415	0.921156	0.494606
14	2.002539	2.590246	1.699184
14	2.930733	-2.476928	-1.817947
6	1.892315	1.123760	0.531587
6	0.726052	0.531998	0.178567
6	0.978985	-0.774100	-0.583631
6	2.283140	-1.071144	-0.747116
6	2.396596	4.192183	0.789714
1	2.349864	5.033048	1.490844
1	1.660155	4.374174	-0.000785
1	3.388854	4.199354	0.329782
6	3.298224	2.233474	3.015288
1	4.305859	2.145493	2.600409
1	3.065812	1.297749	3.535640
1	3.303581	3.038012	3.759335
6	0.366363	2.861905	2.605782
1	0.565059	3.429992	3.522109
1	-0.103859	1.920107	2.914102
1	-0.353458	3.438976	2.018743
6	3.307180	-4.010626	-0.795139
1	3.609712	-4.830640	-1.455804
1	2.415252	-4.328317	-0.246388
1	4.110443	-3.854212	-0.069008
6	4.469251	-1.890248	-2.727196
1	5.309468	-1.700634	-2.054095
1	4.263634	-0.964929	-3.276281
1	4.778723	-2.649125	-3.454545
6	1.665629	-2.945321	-3.137255
1	2.166206	-3.542781	-3.907783
1	1.249285	-2.056136	-3.624024
1	0.833665	-3.540096	-2.747795
6	4.558644	0.270546	0.209577
6	5.191066	1.524444	0.165615
1	4.595969	2.412924	-0.030725
6	6.564523	1.650168	0.348129
1	7.035481	2.626480	0.289379
6	7.332106	0.517861	0.620547
1	8.401926	0.613673	0.779790
6	6.727204	-0.736956	0.688230
1	7.323150	-1.617910	0.905241
6	5.359182	-0.856054	0.464007
1	4.896856	-1.839783	0.504161
6	-0.197203	-1.584938	-0.990983
9	0.275883	-3.222051	0.647945
6	-0.523609	-2.758727	-0.316786
9	-2.022760	-4.521523	0.142570
6	-1.704683	-3.441639	-0.566547
9	-3.732352	-3.592784	-1.749702
6	-2.591859	-2.955106	-1.519172
9	-3.139112	-1.320905	-3.121568
6	-2.290730	-1.791483	-2.214334
9	-0.856685	0.020925	-2.580360
6	-1.108248	-1.121338	-1.934422
6	-1.414031	2.184546	-0.143314
9	0.236556	2.349059	-1.849080
6	-0.860245	2.820378	-1.261518
9	-0.871500	4.520823	-2.901769
6	-1.421553	3.954794	-1.830985
9	-3.106720	5.589725	-1.799765
6	-2.566054	4.502692	-1.271570
9	-4.240283	4.446833	0.381817
6	-3.147677	3.912000	-0.155979
9	-3.158952	2.254488	1.458813
6	-2.573033	2.772781	0.379279
6	-1.596084	-0.136190	1.310799
9	0.206380	-0.623244	2.769372
6	-1.015157	-0.913354	2.314572
9	-1.055969	-2.722682	3.832783
6	-1.648688	-2.010358	2.880503
9	-3.512004	-3.443168	2.929346
6	-2.906724	-2.379286	2.422961
9	-4.709507	-2.010553	0.952396
6	-3.525284	-1.634123	1.427383
9	-3.482955	0.106603	-0.103577
6	-2.869803	-0.532785	0.898537
78			
1cAD	E(RM062X) =	-2976.72108359	
5	2.813706	-0.687496	0.625679
5	-0.732333	0.983826	0.375940
14	2.073527	2.017368	2.028027
14	2.540829	-3.358545	-0.932858
6	1.766831	0.535838	0.913031
6	0.601247	0.186905	0.303188
6	0.690240	-1.152846	-0.343723
6	1.902400	-1.742363	-0.232286
6	2.343732	3.612025	1.057936
1	2.996054	4.285976	1.623507
1	1.397415	4.135118	0.884555
1	2.813381	3.421737	0.087049
6	3.614063	1.639109	3.039268
1	4.471073	1.426978	2.390976
1	3.464770	0.776662	3.699417
1	3.872645	2.493623	3.673610
6	0.614016	2.215305	3.205322
1	0.816830	2.995380	3.947483
1	0.426633	1.278372	3.741099
1	-0.312243	2.493352	2.688062
6	3.366113	-4.285629	0.481634
1	3.762436	-5.245241	0.132735
1	2.661329	-4.489894	1.295056
1	4.207937	-3.713744	0.890251
6	3.823765	-2.966675	-2.250712
1	4.670517	-2.417092	-1.826056
1	3.392889	-2.356617	-3.051432
1	4.203572	-3.892873	-2.696290
6	1.195318	-4.439633	-1.678776
1	1.655642	-5.343845	-2.093018
1	0.660301	-3.936710	-2.490767
1	0.465299	-4.753731	-0.926256
6	4.288775	-0.347302	0.120791
6	5.464685	-0.904669	0.637292
1	5.420670	-1.578205	1.491933
6	6.708390	-0.612964	0.076966
1	7.607105	-1.058144	0.493587
6	6.797154	0.249423	-1.012918
1	7.763940	0.475808	-1.452129
6	5.637616	0.824025	-1.533809
1	5.699361	1.501294	-2.380599
6	4.399956	0.529108	-0.969109
1	3.496816	0.976309	-1.381658
6	-0.529908	-1.697032	-0.998850
9	-0.833931	-3.289724	0.719786
6	-1.273633	-2.709039	-0.400763
9	-3.222723	-4.029807	-0.253744
6	-2.511670	-3.100028	-0.887128
9	-4.209293	-2.854211	-2.498816
6	-3.026400	-2.486349	-2.021997
9	-2.805574	-0.876040	-3.724082
6	-2.308751	-1.474239	-2.645362
9	-0.448024	-0.060056	-2.691332
6	-1.083048	-1.087137	-2.120534
6	-0.797149	2.446080	-0.169271
9	0.924846	2.060209	-1.767051
6	0.041664	2.881233	-1.201708
9	0.816416	4.551765	-2.681785
6	0.004833	4.177295	-1.696840
9	-0.914894	6.336018	-1.600143
6	-0.877718	5.093500	-1.143618
9	-2.558761	5.594922	0.426500
6	-1.721564	4.710306	-0.107126
9	-2.494853	3.081376	1.351151
6	-1.675747	3.403855	0.347157

6	-1.989067	0.234974	0.953163
9	-0.678331	-1.021318	2.485009
6	-1.860137	-0.770202	1.916786
9	-2.746402	-2.519820	3.231556
6	-2.919939	-1.569712	2.318141
9	-5.190330	-2.142368	2.106222
6	-4.169907	-1.379394	1.743447
9	-5.541798	-0.213033	0.227217
6	-4.348182	-0.388780	0.785970
9	-3.484381	1.313427	-0.532139
6	-3.268033	0.400146	0.417476
6	2.727896	-1.403784	2.028688
8	2.512877	-1.911232	3.017868
78			
TS[1cAD,2c] E(RM062X) =		-2976.69378011	
5	2.570708	-1.876679	0.638481
5	-0.379771	0.976724	0.537954
14	2.321404	1.172915	2.541341
14	1.368404	-3.926158	-1.245822
6	1.646797	-0.300437	1.555683
6	0.582466	-0.253884	0.715697
6	0.339726	-1.443167	-0.154280
6	1.353819	-2.324608	-0.250443
6	3.303637	2.268513	1.363754
1	4.088316	2.798320	1.914244
1	2.666144	3.020456	0.887967
1	3.781373	1.673486	0.576612
6	3.450140	0.589841	3.919368
1	4.302981	0.022365	3.533368
1	2.921052	-0.036608	4.641596
1	3.846458	1.466578	4.443660
6	0.880383	2.115468	3.303190
1	1.266371	2.948076	3.902591
1	0.300254	1.462736	3.962585
1	0.192275	2.549210	2.568121
6	2.553888	-5.089406	-0.372744
1	2.660178	-6.028895	-0.924981
1	2.200827	-5.328737	0.635852
1	3.548037	-4.636686	-0.283851
6	1.997159	-3.506975	-2.966274
1	3.034898	-3.159494	-2.933755
1	1.387702	-2.715586	-3.416543
1	1.953774	-4.385740	-3.618575
6	-0.340718	-4.699387	-1.358159
1	-0.249648	-5.724333	-1.734332
1	-0.993129	-4.149903	-2.044251
1	-0.828728	-4.741864	-0.378782
6	3.974438	-1.378324	0.154486
6	5.085026	-1.349234	1.011837
1	4.987738	-1.730892	2.026171
6	6.312266	-0.851177	0.582342
1	7.160839	-0.836833	1.259276
6	6.448901	-0.374328	-0.720729
1	7.403846	0.016164	-1.059034
6	5.360608	-0.405738	-1.592448
1	5.467536	-0.038927	-2.608698
6	4.136235	-0.905797	-1.157322
1	3.286749	-0.919577	-1.835317
6	-0.995436	-1.539644	-0.811851
9	-1.888317	-2.668762	1.055959
6	-2.076265	-2.104484	-0.139622
9	-4.388223	-2.543513	0.047809
6	-3.363949	-2.052323	-0.645918
9	-4.827926	-1.346136	-2.346037
6	-3.593802	-1.423263	-1.865200
9	-2.754908	-0.263763	-3.732010
6	-2.535613	-0.866291	-2.568297
9	-0.259528	-0.350215	-2.711409
6	-1.253529	-0.927731	-2.032991
6	0.105554	2.226806	-0.256441
9	1.750322	0.983959	-1.429045
6	1.146137	2.144881	-1.187438
9	2.589479	3.123182	-2.781223
6	1.603009	3.244605	-1.898591
9	1.459771	5.547757	-2.330441
6	1.025943	4.486097	-1.670741
9	-0.544879	5.813500	-0.524133
6	-0.004467	4.619709	-0.745867
9	-1.430978	3.671404	0.816962
6	-0.451112	3.497383	-0.071484
6	-1.862957	0.816662	1.022050
9	-1.235347	-0.396070	2.955849
6	-2.193416	0.054419	2.145465
9	-3.771911	-1.016103	3.538766
6	-3.500151	-0.285890	2.462610
9	-5.780573	-0.218835	1.899247
6	-4.531519	0.126143	1.628419
9	-5.231799	1.251257	-0.318122
6	-4.249963	0.889466	0.502636
9	-2.714126	1.910299	-0.902380
6	-2.934144	1.226335	0.224432
6	2.202699	-1.797287	2.097895
8	2.066489	-2.065188	3.246298
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2c	E(RM062X) =	-2976.70982552	
5	3.098640	-1.055425	0.827669
5	-0.666178	0.997405	0.426808
14	1.137497	1.917597	3.177878
14	2.198525	-3.440547	-0.860170
6	1.380367	0.495067	1.947543
6	0.561330	0.136777	0.927156
6	0.783975	-1.133855	0.133643
6	1.961242	-1.794208	0.059076
6	2.726251	2.917943	3.220991
1	2.630092	3.759640	3.915339
1	2.961939	3.323054	2.231169
1	3.566158	2.298359	3.547216
6	0.759792	1.227650	4.881119
1	1.566277	0.562275	5.199752
1	-0.178139	0.666101	4.890773
1	0.675000	2.044934	5.605870
6	-0.253889	3.070094	2.642364
1	-0.428748	3.774269	3.464805
1	-1.213292	2.577059	2.449104
1	0.020271	3.660412	1.763108
6	3.759516	-4.239701	-0.188537
1	3.890183	-5.233666	-0.629834
1	3.708576	-4.361071	0.899102
1	4.649238	-3.646818	-0.422188
6	2.358950	-3.182148	-2.718960
1	3.358850	-2.838972	-3.000663
1	1.633082	-2.454655	-3.094529
1	2.179659	-4.134334	-3.230700
6	0.743096	-4.596054	-0.548146
1	1.072938	-5.628155	-0.711370
1	-0.084577	-4.401956	-1.237664
1	0.363632	-4.522071	0.475921
6	4.512310	-0.770855	0.270711
6	5.573252	-0.429047	1.128316
1	5.388285	-0.363079	2.197028
6	6.848075	-0.188465	0.625159
1	7.663212	0.056754	1.298692
6	7.073489	-0.246375	-0.749940
1	8.065324	-0.046625	-1.144635
6	6.027994	-0.550757	-1.623311
1	6.203685	-0.579628	-2.694041
6	4.763850	-0.819887	-1.112655
1	3.945961	-1.045325	-1.793151
6	-0.452227	-1.621700	-0.559834
9	-1.199569	-2.628285	1.434985
6	-1.413476	-2.336952	0.150129
9	-3.539052	-3.351042	0.298043
6	-2.616885	-2.713687	-0.418690
9	-4.051406	-2.692334	-2.282108
6	-2.885464	-2.367985	-1.740293
9	-2.206466	-1.316919	-3.732435
6	-1.946905	-1.661060	-2.476563
9	0.118034	-0.571819	-2.595066
6	-0.747743	-1.290468	-1.876047
6	-0.369194	2.155319	-0.581547
9	1.722431	1.241007	-1.254077
6	0.811995	2.211605	-1.331375

9	2.224059	3.255058	-2.911107
6	1.097040	3.250732	-2.205480
9	0.459474	5.300246	-3.157039
6	0.196471	4.297635	-2.334077
9	-1.836529	5.307899	-1.714073
6	-0.982071	4.295979	-1.597519
9	-2.376662	3.296681	-0.046510
6	-1.244389	3.236060	-0.747918
6	-2.139268	0.578232	0.782175
9	-1.554580	-0.090468	2.974382
6	-2.461153	-0.029476	1.997376
9	-3.965714	-1.156633	3.427737
6	-3.702533	-0.591146	2.254820
9	-5.854919	-1.130040	1.483335
6	-4.673766	-0.574755	1.262074
9	-5.310464	-0.005902	-0.932335
6	-4.399252	0.015585	0.035500
9	-2.925870	1.080704	-1.399603
6	-3.152600	0.583833	-0.179601
6	2.614447	-0.334138	2.164394
8	3.186892	-0.337153	3.250140

156

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6	-3.374883	0.886400	1.255403
6	-3.834692	0.656879	-0.007210
6	-3.384276	1.464061	-1.197903
6	-2.439246	2.451001	-1.178517
6	-4.088670	1.085425	-2.470926
6	-3.436882	0.404291	-3.495775
6	-4.092287	-0.006602	-4.646405
6	-5.444442	0.260013	-4.802362
6	-6.122995	0.947281	-3.809732
6	-5.441383	1.345589	-2.671376
6	-0.594644	3.744413	0.407629
6	-0.737048	4.837901	1.281995
6	0.200969	5.874831	1.289688
6	1.314724	5.820486	0.448943
6	1.506347	4.710509	-0.381578
6	0.558615	3.687698	-0.401056
1	0.697794	2.843938	-1.071344
1	2.373849	4.654464	-1.028896
1	2.039119	6.628136	0.452574
1	-1.596832	4.882685	1.941508
1	0.062863	6.722588	1.951263
5	-1.752736	2.721404	0.222243
6	-2.545183	2.106962	1.461559
8	-2.587181	2.651084	2.591416
6	1.860669	-0.391776	0.408115
6	3.221005	-0.321467	0.337874
6	3.995391	0.940881	0.621653
6	3.468797	2.028629	1.239658
6	5.420091	0.919506	0.153210
6	5.757332	1.357447	-1.124951
6	7.053750	1.297725	-1.606886
6	8.058861	0.774969	-0.803560
6	7.757136	0.322694	0.470387
6	6.449298	0.396019	0.928171
6	1.674886	2.007673	3.256529
6	0.366184	2.333043	3.655670
6	0.073306	2.609153	4.991768
6	1.075325	2.506105	5.958947
6	2.375543	2.141085	5.588706
6	2.675474	1.912843	4.248312
1	3.687952	1.641066	3.961249
1	3.148370	2.048144	6.342910
1	0.846709	2.704114	7.000182
1	-0.421099	2.393345	2.915908
1	-0.935506	2.890782	5.272393
5	2.019602	1.777025	1.767370
6	1.103749	0.812230	0.885149
8	-0.135334	0.874961	0.669767
14	0.782645	-1.845661	-0.167241
6	-0.136003	-1.280548	-1.691445
6	-0.323566	-2.311506	1.270780
6	1.797427	-3.372707	-0.609529
1	-0.808263	-0.460267	-1.432045
1	-0.723958	-2.099321	-2.117967
1	0.566668	-0.929273	-2.453169
1	0.276222	-2.483369	2.171681
1	-0.888858	-3.222030	1.047436
1	-1.034254	-1.503380	1.466740
1	2.139327	-3.912569	0.277863
1	2.648582	-3.207507	-1.280305
1	1.108691	-4.034828	-1.150448
14	4.483614	3.601424	1.622046
6	6.101893	3.151094	2.480757
6	3.527670	4.726671	2.779121
6	4.909438	4.487908	0.009133
1	5.999150	2.297240	3.157888
1	6.423729	4.015537	3.073105
1	6.895878	2.931782	1.759872
1	2.453180	4.724141	2.577609
1	3.896644	5.752563	2.660903
1	3.676736	4.425036	3.820353
1	4.641026	3.900078	-0.873297
1	5.985663	4.688817	-0.028308
1	4.386219	5.447548	-0.051511
14	-3.783581	-0.107195	2.827380
6	-2.255395	-0.075805	3.912958
6	-4.110233	-1.909352	2.386901
6	-5.266853	0.600711	3.745798
1	-1.340355	-0.124240	3.311496
1	-2.262741	-0.930557	4.598314
1	-2.217600	0.847159	4.496748
1	-4.947431	-2.097014	1.705841
1	-4.346661	-2.432583	3.321921
1	-3.212779	-2.367155	1.960927
1	-5.126642	0.465331	4.823635
1	-6.192857	0.088083	3.463648
1	-5.380408	1.671517	3.548617
14	-2.162851	3.658261	-2.642356
6	-3.690918	3.798902	-3.742963
6	-0.712363	3.153071	-3.722104
6	-1.926458	5.399970	-1.970073
1	-3.819467	2.966935	-4.441394
1	-3.566739	4.709470	-4.340989
1	-4.607543	3.913285	-3.153252
1	-0.771709	2.094757	-3.993258
1	0.246257	3.329975	-3.227100
1	-0.732009	3.746713	-4.643218
1	-0.926308	5.574049	-1.566266
1	-2.655669	5.619738	-1.182203
1	-2.094702	6.107187	-2.790574
5	4.122395	-1.571491	0.004726
6	4.403520	-2.598807	1.149569
6	4.875049	-1.647188	-1.376486
6	4.192718	-2.291387	2.499690
6	4.829680	-3.907365	0.889087
6	6.215957	-2.024572	-1.477310
6	4.287463	-1.186933	-2.555722
9	3.765717	-1.047953	2.886638
6	4.413636	-3.206436	3.517757
6	5.043971	-4.844143	1.881820
9	5.007107	-4.322480	-0.406096
9	6.898536	-2.436336	-0.356362
6	6.935780	-1.939991	-2.656844
6	4.974081	-1.104175	-3.757008
9	2.970883	-0.802890	-2.555054
9	4.209394	-2.857233	4.822005
6	4.838639	-4.486408	3.206416
9	5.444341	-6.112881	1.574518
9	8.258232	-2.276838	-2.690579
6	6.308512	-1.476350	-3.804235
9	4.353264	-0.653615	-4.884907
9	5.047688	-5.396007	4.196802
9	7.002191	-1.386084	-4.971610
5	-5.006264	-0.372774	-0.227501
6	-6.385460	-0.101802	0.471318
6	-4.820143	-1.597363	-1.200114
6	-6.770291	1.167255	0.930158
6	-7.322807	-1.120318	0.692616
6	-5.789353	-1.997863	-2.120574

6	-3.630068	-2.320713	-1.224324
9	-5.947767	2.254849	0.824266
6	-7.995438	1.405392	1.534894
6	-8.542337	-0.915954	1.310164
9	-7.028147	-2.412447	0.332500
9	-6.990827	-1.328688	-2.172886
6	-5.593604	-3.033516	-3.017642
6	-3.407281	-3.377848	-2.092461
9	-2.630258	-2.011042	-0.339475
9	-8.320675	2.660412	1.964178
6	-8.884176	0.362301	1.725455
9	-9.407592	-1.952462	1.513571
9	-6.563029	-3.371741	-3.917449
6	-4.392891	-3.730787	-2.999501
9	-2.224774	-4.064151	-2.061601
9	-10.082436	0.585330	2.329940
9	-4.187904	-4.757717	-3.869911
9	-6.140767	2.045179	-1.719105
9	-7.450509	1.222644	-3.953930
9	-6.098704	-0.148740	-5.925930
9	-3.419148	-0.688740	-5.618421
9	-2.104064	0.105263	-3.386222
9	6.176366	-0.077984	2.186136
9	8.737768	-0.204451	1.257507
9	9.333985	0.691778	-1.276991
9	7.342644	1.698025	-2.880280
9	4.768827	1.802454	-1.967442
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6	-3.568593	-0.248098	1.136850
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6	-3.076530	0.398477	-1.235628
6	-1.730330	0.464756	-1.140784
6	-3.797177	0.484184	-2.550925
6	-4.081241	-0.674200	-3.271306
6	-4.867305	-0.659513	-4.412101
6	-5.391171	0.545790	-4.866777
6	-5.117602	1.720203	-4.182244
6	-4.334156	1.673051	-3.034375
6	-1.091101	1.963146	0.956396
6	-1.563115	2.262269	2.248033
6	-1.819028	3.568329	2.659464
6	-1.593932	4.630514	1.785603
6	-1.072330	4.376693	0.519592
6	-0.828958	3.064021	0.119160
1	-0.477380	2.892914	-0.895970
1	-0.873978	5.198172	-0.163703
1	-1.810597	5.648916	2.093943
1	-1.763990	1.449774	2.942628
1	-2.208977	3.754730	3.656179
5	-1.142945	0.443979	0.368023
6	-2.098732	-0.454472	1.309255
8	-1.700539	-1.200125	2.209333
6	2.491510	-0.758970	0.556734
6	3.692358	-0.122717	0.447518
6	3.813937	1.382819	0.479145
6	2.860032	2.194856	0.988238
6	5.084068	1.906775	-0.117030
6	5.175262	2.160697	-1.482925
6	6.367268	2.539708	-2.079728
6	7.511267	2.671921	-1.299480
6	7.449521	2.439374	0.067247
6	6.242614	2.054679	0.637928
6	1.581139	1.244494	3.206227
6	0.683186	0.329557	3.787394
6	0.598467	0.191917	5.168571
6	1.424908	0.954376	5.994290
6	2.343168	1.846590	5.439323
6	2.419559	1.985508	4.058597
1	3.156435	2.661440	3.632009
1	2.996629	2.426615	6.082852
1	1.361299	0.846308	7.072843
1	0.034681	-0.273990	3.154250
1	-0.104516	-0.512897	5.601487
5	1.732293	1.348345	1.668339
6	1.319957	0.100432	0.796636
8	0.219054	-0.295188	0.348383
14	2.125013	-2.616787	0.325083
6	1.097366	-2.874680	-1.223662
6	1.169000	-3.158551	1.841132
6	3.712532	-3.618592	0.202607
1	0.122250	-2.390038	-1.118446
1	0.932955	-3.947277	-1.377089
1	1.589033	-2.477818	-2.116817
1	1.755134	-2.992388	2.751536
1	0.931877	-4.226205	1.780872
1	0.229129	-2.602443	1.930082
1	4.228917	-3.689388	1.163954
1	4.422274	-3.273699	-0.557793
1	3.421513	-4.635693	-0.086515
14	2.937654	4.095999	0.946324
6	4.671942	4.760108	1.258188
6	1.805333	4.769090	2.282992
6	2.398563	4.611143	-0.778157
1	5.177465	4.231319	2.073187
1	4.585273	5.813145	1.549423
1	5.304893	4.713929	0.366982
1	0.945807	4.117993	2.467532
1	1.418793	5.750079	1.985433
1	2.348086	4.893971	3.225782
1	1.361710	4.329786	-0.979803
1	3.029092	4.141160	-1.539905
1	2.484302	5.698012	-0.886277
14	-4.610356	-0.780798	2.624732
6	-4.525660	-2.645497	2.842907
6	-6.432105	-0.310010	2.462981
6	-3.959450	0.082267	4.164362
1	-4.959576	-3.163983	1.983110
1	-5.086327	-2.942959	3.736357
1	-3.488028	-2.967273	2.956167
1	-6.595105	0.761737	2.609452
1	-6.968314	-0.834607	3.263323
1	-6.910231	-0.609726	1.523164
1	-4.552263	-0.200029	5.041357
1	-4.016545	1.171246	4.055975
1	-2.916725	-0.191549	4.352217
14	-0.670637	0.699703	-2.698927
6	-0.779900	-0.810421	-3.826305
6	1.147982	0.936736	-2.265700
6	-1.223684	2.225192	-3.674075
1	-0.787824	-1.746297	-3.260490
1	0.089848	-0.826517	-4.493066
1	-1.676319	-0.784926	-4.453502
1	1.327875	1.699318	-1.497232
1	1.679993	1.259157	-3.168285
1	1.614190	0.004566	-1.933861
1	-1.674454	2.986830	-3.030316
1	-1.957377	1.958592	-4.441994
1	-0.363744	2.675676	-4.181271
5	5.071533	-0.882819	0.264492
6	5.791893	-1.413422	1.540293
6	5.751868	-0.907752	-1.151174
6	5.462985	-0.963346	2.824927
6	6.760699	-2.424494	1.478657
6	7.111907	-0.631061	-1.313246
6	5.000112	-0.960499	-2.326024
9	4.545943	-0.013975	3.002067
6	6.072386	-1.453435	3.970465
6	7.374676	-2.946753	2.603028
9	7.100251	-2.957865	0.305685
9	7.910618	-0.506987	-0.249434
6	7.686356	-0.389286	-2.551961
6	5.542753	-0.741890	-3.582996
9	3.695006	-1.238316	-2.265362
9	5.744029	-0.984027	5.169499
6	7.029754	-2.451052	3.855492
9	8.279196	-3.915157	2.501767
9	8.970937	-0.062008	-2.648244
6	6.895037	-0.441840	-3.692367
9	4.786301	-0.804276	-4.672365
9	7.612794	-2.936225	4.939076
9	7.427738	-0.204794	-4.880154

5	-5.514714	0.568812	-0.345701
6	-6.034896	1.960152	0.146066
6	-6.414698	-0.382210	-1.221367
6	-5.160612	3.008481	0.459899
6	-7.391319	2.206673	0.392510
6	-7.266909	0.118034	-2.208267
6	-6.240340	-1.767878	-1.219342
9	-3.853380	2.892372	0.260260
6	-5.599125	4.222886	0.971328
6	-7.858861	3.400524	0.912577
9	-8.299301	1.254059	0.172562
9	-7.460694	1.434999	-2.333752
6	-7.887908	-0.689684	-3.149392
6	-6.860589	-2.608537	-2.131819
9	-5.445625	-2.340352	-0.313488
9	-4.736060	5.198024	1.244468
6	-6.953098	4.415279	1.199784
9	-9.155504	3.585061	1.148086
9	-8.640176	-0.156575	-4.108125
6	-7.682107	-2.061991	-3.109463
9	-6.667203	-3.922828	-2.088529
9	-7.386259	5.565532	1.694074
9	-8.262795	-2.847460	-4.004213
9	-4.122681	2.817642	-2.380814
9	-3.648039	-1.854326	-2.823152
9	-5.178536	-1.791920	-5.040061
9	-6.176221	0.562192	-5.937266
9	-5.627748	2.871900	-4.606473
9	6.213912	1.823777	1.951840
9	8.540588	2.562833	0.812578
9	8.662695	2.999578	-1.868454
9	6.443357	2.711751	-3.395964
9	4.108782	1.974047	-2.264190
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6	-2.996587	0.192465	1.185855
6	-3.754046	0.287270	0.058205
6	-3.237668	0.833499	-1.246418
6	-2.079114	1.507965	-1.402655
6	-4.091806	0.473455	-2.428737
6	-3.810987	-0.707774	-3.116325
6	-4.599546	-1.161892	-4.157989
6	-5.707726	-0.417462	-4.550845
6	-6.001969	0.773987	-3.906402
6	-5.198344	1.198974	-2.851814
6	-1.070108	3.188100	0.472590
6	-2.187482	3.765043	1.097520
6	-2.148225	5.057783	1.611647
6	-0.983516	5.819927	1.505548
6	0.133095	5.276346	0.878954
6	0.088696	3.972183	0.377350
1	0.971148	3.579094	-0.129610
1	1.040140	5.866974	0.780608
1	-0.951024	6.829874	1.901811
1	-3.101377	3.183908	1.188580
1	-3.026816	5.475129	2.095029
5	-1.151434	1.685880	-0.100379
6	-1.575286	0.622478	1.069885
8	-0.720090	0.153275	1.820050
6	2.028563	-0.234641	0.010950
6	3.361235	-0.088433	0.235259
6	3.935540	1.234770	0.697858
6	3.196970	2.237052	1.221204
6	5.412299	1.362750	0.487660
6	5.921407	1.872508	-0.702580
6	7.282309	1.899857	-0.962654
6	8.171028	1.410837	-0.010584
6	7.694041	0.911491	1.193586
6	6.324248	0.889581	1.423771
6	1.354054	1.891993	3.086190
6	0.124885	2.351387	3.584444
6	-0.067117	2.543703	4.949697
6	0.947160	2.235263	5.854896
6	2.166571	1.754091	5.384845
6	2.374087	1.613006	4.015276
1	3.345491	1.275632	3.663046
1	2.963161	1.509075	6.080338
1	0.788008	2.372463	6.920040
1	-0.681311	2.590450	2.900006
1	-1.019036	2.925137	5.307317
5	1.730095	1.777860	1.575477
6	1.157824	0.905556	0.370454
8	0.214626	1.106154	-0.448039
14	1.185482	-1.648383	-0.971369
6	0.676952	-1.057346	-2.680851
6	-0.373305	-2.251856	-0.119691
6	2.354586	-3.115859	-1.134125
1	-0.152751	-0.350034	-2.584471
1	0.317514	-1.918295	-3.257202
1	1.485875	-0.583469	-3.240989
1	-0.259337	-2.356214	0.962461
1	-0.640121	-3.230407	-0.537185
1	-1.216983	-1.579955	-0.308037
1	2.500457	-3.629766	-0.179549
1	3.335340	-2.898740	-1.571772
1	1.866628	-3.824507	-1.814343
14	3.893446	3.952692	1.678545
6	5.656803	3.888719	2.338987
6	2.853080	4.777196	3.004589
6	3.869362	4.949859	0.083255
1	5.784786	3.089674	3.077440
1	5.862731	4.839871	2.843064
1	6.406474	3.761159	1.552492
1	1.777656	4.691110	2.833185
1	3.112707	5.842093	3.035752
1	3.070327	4.345211	3.986754
1	2.869625	5.000030	-0.360400
1	4.535588	4.506600	-0.663354
1	4.206238	5.974503	0.274578
14	-3.445477	-0.654787	2.821251
6	-2.432135	-2.216568	3.071232
6	-5.268062	-1.131303	2.930556
6	-3.081256	0.556896	4.207588
1	-2.571710	-2.924671	2.249726
1	-2.739494	-2.707848	4.001643
1	-1.370386	-1.968891	3.139369
1	-5.917924	-0.261449	3.061365
1	-5.374016	-1.755957	3.825996
1	-5.645806	-1.728295	2.092234
1	-3.406939	0.153459	5.172553
1	-3.592750	1.512821	4.048560
1	-2.006000	0.749337	4.262782
14	-1.590146	2.380397	-3.013113
6	-1.980807	1.427078	-4.595093
6	0.254838	2.744957	-3.042258
6	-2.526308	4.013621	-3.008970
1	-1.649825	0.384225	-4.537253
1	-1.438791	1.900138	-5.422021
1	-3.045342	1.437647	-4.848738
1	0.862884	1.840350	-2.948498
1	0.540397	3.434017	-2.243005
1	0.503144	3.223807	-3.996393
1	-2.250491	4.601529	-2.126240
1	-3.607633	3.846540	-2.974041
1	-2.295668	4.604548	-3.901876
5	4.436529	-1.231088	0.004031
6	4.602917	-2.314705	1.114207
6	5.420043	-1.147145	-1.219931
6	4.137204	-2.120265	2.419298
6	5.163481	-3.571584	0.850235
6	6.785445	-1.415282	-1.087337
6	5.030203	-0.585950	-2.437336
9	3.574328	-0.966601	2.778110
6	4.245815	-3.086699	3.408557
6	5.270007	-4.564014	1.808112
9	5.585793	-3.873020	-0.377537
9	7.275734	-1.890813	0.060831
6	7.707616	-1.133096	-2.083916
6	5.920261	-0.307963	-3.463488
9	3.748102	-0.279753	-2.645377
9	3.808172	-2.851322	4.640906
6	4.812584	-4.313948	3.097142

9	5.795900	-5.748032	1.511460
9	9.004118	-1.348882	-1.885822
6	7.270695	-0.576425	-3.279053
9	5.499508	0.225474	-4.604369
9	4.914546	-5.250791	4.025656
9	8.139863	-0.293473	-4.235841
5	-5.258122	-0.213080	0.001899
6	-6.409149	0.710714	0.521767
6	-5.583142	-1.570747	-0.729890
6	-6.243633	2.089872	0.679565
6	-7.649780	0.202056	0.928545
6	-6.659147	-1.680531	-1.615428
6	-4.689308	-2.643294	-0.733630
9	-5.104259	2.683285	0.327992
6	-7.235875	2.917158	1.186668
6	-8.655830	0.994969	1.451576
9	-7.895080	-1.107274	0.863402
9	-7.547083	-0.687806	-1.733259
6	-6.826530	-2.758965	-2.470249
6	-4.833598	-3.745961	-1.562726
9	-3.632682	-2.638131	0.081307
9	-7.034868	4.226286	1.305143
6	-8.446129	2.363654	1.575587
9	-9.812518	0.466034	1.839667
9	-7.830349	-2.781073	-3.342647
6	-5.904298	-3.796865	-2.445442
9	-3.951845	-4.739935	-1.530686
9	-9.401482	3.135853	2.069131
9	-6.042724	-4.828813	-3.263680
9	8.541055	0.446410	2.102930
9	9.471277	1.401550	-0.267784
9	7.740402	2.323484	-2.136705
9	5.085713	2.283298	-1.659816
9	5.886239	0.398638	2.586021
9	-2.773853	-1.462469	-2.740810
9	-5.533225	2.338308	-2.240361
9	-7.061754	1.485416	-4.275292
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9	-4.342624	-2.325040	-4.752867
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6	2.583875	-1.517838	0.076387
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6	3.382948	0.872655	-0.261924
6	2.171927	1.438944	-0.471579
6	4.612487	1.722860	-0.140014
6	4.882468	2.387611	1.054271
6	6.033364	3.137657	1.234252
6	6.950207	3.244152	0.193221
6	6.697407	2.617049	-1.018286
6	5.538547	1.864778	-1.166552
6	0.562841	0.188413	-2.154566
6	-0.739871	-0.154784	-2.535445
6	-1.082787	-0.354861	-3.872174
6	-0.113677	-0.238856	-4.864743
6	1.194128	0.086808	-4.507419
6	1.522755	0.302287	-3.170765
1	2.542596	0.578735	-2.918409
1	1.959586	0.183140	-5.272030
1	-0.374174	-0.396132	-5.906968
1	-1.529157	-0.258331	-1.795224
1	-2.109626	-0.600706	-4.127933
5	0.933736	0.455365	-0.579322
6	1.231069	-1.007142	0.001558
8	0.280096	-1.808368	0.334271
6	-2.475376	0.943020	0.830267
6	-3.561342	0.231685	0.401948
6	-3.472459	-1.187091	-0.069258
6	-2.363710	-1.955769	0.054444
6	-4.755668	-1.707039	-0.639211
6	-5.213538	-1.302845	-1.888557
6	-6.472640	-1.651221	-2.365316
6	-7.307270	-2.426670	-1.573362
6	-6.872967	-2.857776	-0.324285
6	-5.609996	-2.502285	0.117630
6	-1.120316	-1.353960	2.396123
6	-2.270455	-1.688684	3.120759
6	-2.281435	-1.655865	4.514031
6	-1.132573	-1.292395	5.216279
6	0.023926	-0.958447	4.514687
6	0.020350	-0.980955	3.120886
1	0.937070	-0.706931	2.596823
1	0.925325	-0.672169	5.048816
1	-1.138825	-1.270126	6.301813
1	-3.174183	-1.972227	2.589240
1	-3.188246	-1.918455	5.051497
5	-1.086628	-1.265089	0.758509
6	-1.200159	0.302443	0.537909
8	-0.271666	1.077190	0.134855
14	-2.487037	2.583464	1.792305
14	-2.163544	-3.739013	-0.544506
14	1.850941	3.283690	-0.810937
14	2.813972	-3.336261	0.615985
6	-4.117684	2.719166	2.722649
1	-4.991629	2.952138	2.106777
1	-4.321034	1.799768	3.280353
1	-4.021503	3.533052	3.451148
6	-2.216741	4.123318	0.750086
1	-1.851557	4.936662	1.387283
1	-1.483694	3.963956	-0.045990
1	-3.155780	4.455741	0.294348
6	-1.147236	2.360678	3.090295
1	-1.012163	3.285119	3.662519
1	-1.438176	1.564918	3.786251
1	-0.180413	2.081589	2.660214
6	0.399012	3.438282	-1.999707
1	-0.464477	2.834283	-1.705602
1	0.087422	4.488614	-2.051740
1	0.690594	3.122211	-3.006900
6	1.459829	4.119318	0.826381
1	2.294590	4.026942	1.528256
1	1.258095	5.184653	0.668143
1	0.576308	3.673021	1.292062
6	3.306397	4.158655	-1.629550
1	4.117283	4.392506	-0.932688
1	3.717691	3.566197	-2.454562
1	2.946751	5.104821	-2.049912
6	4.617571	-3.882021	0.730445
1	5.058474	-4.084329	-0.248892
1	5.292395	-3.229523	1.295348
1	4.588736	-4.833430	1.276741
6	2.011954	-4.463547	-0.648552
1	0.934189	-4.303789	-0.706687
1	2.437048	-4.293975	-1.643912
1	2.187504	-5.510872	-0.377986
6	2.102346	-3.601843	2.333399
1	2.146421	-4.671202	2.571641
1	2.694995	-3.066203	3.081875
1	1.066522	-3.270769	2.427414
9	5.313491	1.284059	-2.348339
9	7.564013	2.729798	-2.018054
9	8.065347	3.941373	0.363941
9	6.300576	3.701963	2.408688
9	4.047451	2.260910	2.089942
9	-5.239267	-2.903702	1.338777
9	-7.688838	-3.567194	0.451892
9	-8.522600	-2.747604	-1.997801
9	-6.881979	-1.240813	-3.560684
9	-4.442990	-0.527846	-2.657374
6	-1.165022	-3.622462	-2.136470
1	-0.288634	-2.974972	-2.038197
1	-0.832215	-4.614687	-2.461757
1	-1.795641	-3.199614	-2.927076
6	-1.291657	-4.675021	0.830544
1	-1.005394	-5.679007	0.497790
1	-0.392357	-4.156582	1.171387
1	-1.964478	-4.781246	1.688956
6	-3.724594	-4.710683	-0.951990
1	-4.377859	-4.836047	-0.083423
1	-4.304899	-4.277645	-1.772192
1	-3.403127	-5.710888	-1.267218
5	-4.946304	0.985326	0.254097

6	-4.963336	2.269648	-0.646526
6	-6.249565	0.427201	0.922914
6	-4.016183	2.509627	-1.653242
6	-5.884878	3.304962	-0.436035
6	-7.486911	0.459436	0.274702
6	-6.205065	-0.304297	2.111359
9	-3.084609	1.611658	-1.964829
6	-3.981732	3.684593	-2.391721
6	-5.869004	4.494467	-1.143669
9	-6.807862	3.196705	0.522407
9	-7.616635	1.083626	-0.898547
6	-8.608522	-0.194255	0.762932
6	-7.307610	-0.960628	2.635765
9	-5.055150	-0.424935	2.779066
9	-3.058429	3.863969	-3.330459
6	-4.912365	4.680023	-2.135592
9	-6.754791	5.452232	-0.890842
9	-9.756256	-0.168188	0.093020
6	-8.515395	-0.907499	1.951621
9	-7.214229	-1.653598	3.765236
9	-4.889056	5.807111	-2.827657
9	-9.574107	-1.545002	2.425764
5	5.127036	-0.991516	0.068164
6	5.894589	-0.544796	1.367945
6	5.861751	-1.657008	-1.136630
6	5.254428	-0.474955	2.605895
6	7.164831	0.035991	1.308802
6	7.064980	-2.361365	-0.983946
6	5.314849	-1.672978	-2.424682
9	4.032806	-0.995052	2.755899
6	5.825602	0.122808	3.719864
6	7.757233	0.660961	2.394066
9	7.835841	0.083282	0.153995
9	7.626408	-2.486526	0.218139
6	7.699779	-3.005181	-2.030968
6	5.932197	-2.296183	-3.499665
9	4.153537	-1.074852	-2.677458
9	5.177737	0.161081	4.878767
6	7.080027	0.706598	3.606565
9	8.940551	1.254384	2.270273
9	8.833417	-3.671630	-1.836656
6	7.130585	-2.964271	-3.298829
9	5.381639	-2.268455	-4.709073
9	7.629636	1.307357	4.650347
9	7.727707	-3.573603	-4.309839
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6	3.418531	0.784871	-0.269612
6	2.203484	1.392209	-0.361675
6	4.664713	1.622461	-0.284255
6	5.018806	2.387121	0.825091
6	6.145245	3.194994	0.836472
6	6.946541	3.267845	-0.297002
6	6.622198	2.520996	-1.419771
6	5.496246	1.708308	-1.395030
6	0.839429	-0.353540	-1.968244
6	-0.481308	-0.497307	-2.395520
6	-0.798856	-0.433257	-3.751594
6	0.210188	-0.269544	-4.694432
6	1.538417	-0.164837	-4.275096
6	1.850317	-0.197117	-2.921303
1	2.881432	-0.082910	-2.609545
1	2.333546	-0.047352	-5.004513
1	-0.031946	-0.227750	-5.751544
1	-1.291893	-0.666834	-1.693367
1	-1.836876	-0.522285	-4.057152
5	0.987765	0.446275	-0.280275
6	1.180943	-1.052102	-0.242225
8	0.187894	-1.922058	0.035173
6	-2.462027	0.838650	0.870344
6	-3.572413	0.118378	0.513091
6	-3.528059	-1.309452	0.102896
6	-2.412688	-2.080894	0.161710
6	-4.857444	-1.831765	-0.353906
6	-5.348779	-1.565197	-1.626930
6	-6.641993	-1.909450	-2.007973
6	-7.475401	-2.537292	-1.093529
6	-7.006165	-2.833686	0.182190
6	-5.710496	-2.489646	0.526865
6	-0.912134	-1.414988	2.340776
6	-1.998611	-1.567762	3.212179
6	-1.830624	-1.501322	4.594211
6	-0.565677	-1.274301	5.138410
6	0.527891	-1.115588	4.290023
6	0.347703	-1.174256	2.908896
1	1.218724	-1.048298	2.268825
1	1.521769	-0.942644	4.693647
1	-0.435384	-1.223569	6.215246
1	-2.992728	-1.740457	2.806338
1	-2.688481	-1.629632	5.248362
5	-1.048311	-1.386998	0.692465
6	-1.212194	0.194949	0.551123
8	-0.267479	1.014865	0.206153
14	-2.422386	2.532774	1.732213
14	-2.360364	-3.868328	-0.480499
14	1.852069	3.196158	-0.823164
14	2.721790	-3.442158	0.144609
6	-4.045030	2.794959	2.649261
1	-4.909776	3.009268	2.013354
1	-4.282681	1.936666	3.284025
1	-3.916998	3.665046	3.304323
6	-2.128151	3.995335	0.591146
1	-1.814888	4.864768	1.180286
1	-1.352778	3.794648	-0.152828
1	-3.050298	4.267136	0.065543
6	-1.081743	2.331189	3.034114
1	-0.950844	3.257157	3.604565
1	-1.368818	1.535208	3.732399
1	-0.115038	2.054398	2.602894
6	0.437733	3.131178	-2.071266
1	-0.425655	2.550264	-1.733122
1	0.095757	4.144845	-2.310621
1	0.795559	2.671501	-3.000835
6	1.426746	4.179411	0.718394
1	2.295944	4.228418	1.383390
1	1.134206	5.203035	0.459895
1	0.604617	3.720192	1.274459
6	3.273956	4.043254	-1.722509
1	4.118853	4.292403	-1.073210
1	3.640823	3.429111	-2.552550
1	2.896333	4.980012	-2.148698
6	4.501647	-4.059477	0.287193
1	5.052773	-4.071151	-0.655713
1	5.107335	-3.547499	1.045365
1	4.408323	-5.099199	0.626714
6	1.970584	-4.268698	-1.365033
1	0.958653	-3.900345	-1.551131
1	2.581944	-4.043608	-2.246362
1	1.927704	-5.356898	-1.246889
6	1.953827	-3.978884	1.775448
1	1.836408	-5.069359	1.769925
1	2.623954	-3.718945	2.600523
1	0.980957	-3.527101	1.969308
9	5.190613	1.030643	-2.505612
9	7.379201	2.594813	-2.510237
9	8.026514	4.037756	-0.298130
9	6.481749	3.865757	1.934658
9	4.294454	2.312269	1.944071
9	-5.300354	-2.760697	1.770106
9	-7.817158	-3.403275	1.071004
9	-8.721241	-2.846714	-1.428092
9	-7.083859	-1.632652	-3.229878
9	-4.576876	-0.942378	-2.521480
6	-1.856184	-3.725071	-2.287955
1	-0.913519	-3.181125	-2.398228
1	-1.743220	-4.716018	-2.741427
1	-2.621983	-3.177140	-2.850282
6	-1.117063	-4.847982	0.516844
1	-1.125461	-5.898765	0.206806
1	-0.112824	-4.450861	0.372359

1	-1.346403	-4.806553	1.587560
6	-3.975134	-4.843158	-0.419411
1	-4.432015	-4.837722	0.575030
1	-4.716542	-4.505671	-1.149492
1	-3.726240	-5.883701	-0.659998
5	-4.935185	0.904095	0.323914
6	-4.900519	2.078510	-0.714794
6	-6.240838	0.488179	1.077971
6	-3.948734	2.157265	-1.743323
6	-5.751036	3.186487	-0.601524
6	-7.495249	0.527878	0.463632
6	-6.192046	-0.140180	2.324601
9	-3.083384	1.169482	-1.972143
6	-3.844031	3.250410	-2.590951
6	-5.666225	4.297596	-1.423904
9	-6.665622	3.234649	0.369134
9	-7.632241	1.047781	-0.757947
6	-8.630977	-0.020257	1.041343
6	-7.307609	-0.687984	2.937316
9	-5.025379	-0.270792	2.960911
9	-2.920363	3.277065	-3.545961
6	-4.708021	4.324121	-2.430563
9	-6.486580	5.330178	-1.263367
9	-9.797807	0.007163	0.405756
6	-8.533560	-0.629711	2.285847
9	-7.211843	-1.286786	4.118805
9	-4.618509	5.373657	-3.230380
9	-9.605899	-1.167016	2.844736
5	5.100409	-1.065604	0.221085
6	5.548331	-0.623597	1.674525
6	6.119167	-1.649061	-0.811104
6	4.736677	-0.806596	2.791854
6	6.666174	0.187128	1.871005
6	7.393660	-2.106460	-0.444626
6	5.790063	-1.829653	-2.161716
9	3.640990	-1.569298	2.712232
6	5.010002	-0.236670	4.027870
6	6.951542	0.806806	3.075484
9	7.465256	0.476512	0.836566
9	7.787659	-2.085978	0.828119
6	8.294930	-2.645517	-1.347497
6	6.670565	-2.358394	-3.093216
9	4.575460	-1.530687	-2.619378
9	4.209358	-0.455969	5.068802
6	6.119432	0.583535	4.166411
9	7.995240	1.623839	3.187234
9	9.491311	-3.065513	-0.947331
6	7.932071	-2.763949	-2.682527
9	6.310453	-2.499717	-4.365270
9	6.384211	1.156597	5.331591
9	8.780558	-3.279796	-3.556733
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6	3.422299	0.838987	-0.182799
6	2.215572	1.446006	-0.195319
6	4.670363	1.645534	-0.367262
6	5.060598	2.573857	0.596989
6	6.202557	3.346992	0.458575
6	6.983046	3.215538	-0.683846
6	6.625596	2.298975	-1.661643
6	5.486313	1.524050	-1.486563
6	0.986240	-0.699632	-1.974531
6	-0.318358	-0.569937	-2.467270
6	-0.555829	-0.199759	-3.788716
6	0.511190	0.045952	-4.648065
6	1.813664	-0.077703	-4.167270
6	2.049004	-0.438481	-2.842624
1	3.066770	-0.507525	-2.484839
1	2.658237	0.113475	-4.822447
1	0.331416	0.335684	-5.678414
1	-1.178217	-0.760514	-1.831701
1	-1.580014	-0.094836	-4.133677
5	1.027082	0.487606	0.132523
6	1.175766	-0.967215	-0.460591
8	0.130601	-1.887078	-0.081316
6	-2.352315	0.710001	1.241773
6	-3.455373	0.087177	0.765176
6	-3.454713	-1.347417	0.327419
6	-2.368218	-2.155120	0.247214
6	-4.813744	-1.835553	-0.080192
6	-5.317708	-1.596853	-1.352935
6	-6.621640	-1.931565	-1.703125
6	-7.449841	-2.516851	-0.755888
6	-6.966736	-2.778400	0.522312
6	-5.660228	-2.446113	0.837322
6	-0.714578	-0.550088	2.703791
6	-1.724066	-1.126839	3.484528
6	-1.432188	-1.635772	4.746669
6	-0.131583	-1.578024	5.244774
6	0.878575	-1.020623	4.465725
6	0.591889	-0.520063	3.197290
1	1.396452	-0.088314	2.608827
1	1.896021	-0.971566	4.838406
1	0.092485	-1.967811	6.232533
1	-2.742725	-1.167297	3.108421
1	-2.226137	-2.073424	5.343594
5	-1.016491	-1.403592	0.470869
6	-1.033439	-0.038046	1.291716
8	-0.021450	0.905159	0.875547
14	-2.362796	2.470600	1.999620
14	-2.379165	-3.905752	-0.486008
14	1.786280	3.184074	-0.786448
14	2.622303	-3.344026	0.404780
6	-4.028420	2.833210	2.807401
1	-4.867477	2.968391	2.117477
1	-4.298663	2.063713	3.535190
1	-3.919889	3.781067	3.348956
6	-2.041995	3.848652	0.758119
1	-1.758230	4.753319	1.309014
1	-1.232793	3.613989	0.064617
1	-2.938982	4.086398	0.177396
6	-1.091322	2.549523	3.380831
1	-1.084700	3.566475	3.790463
1	-1.341751	1.857921	4.192100
1	-0.083794	2.308565	3.032946
6	0.288638	2.921966	-1.903420
1	-0.491024	2.302928	-1.445957
1	-0.163752	3.876749	-2.195013
1	0.609596	2.407865	-2.818394
6	1.437113	4.285836	0.692833
1	2.368541	4.488656	1.231726
1	1.000757	5.242029	0.384773
1	0.744805	3.801946	1.388932
6	3.115378	3.951084	-1.876446
1	4.006118	4.274819	-1.330039
1	3.424081	3.248964	-2.659532
1	2.691500	4.831620	-2.372849
6	4.346035	-3.978290	0.840356
1	5.005302	-4.124472	-0.017772
1	4.871599	-3.376878	1.592695
1	4.179781	-4.961247	1.299488
6	2.032057	-4.303996	-1.098005
1	1.067373	-3.934196	-1.456574
1	2.762912	-4.180652	-1.905336
1	1.936535	-5.373828	-0.883826
6	1.661141	-3.652721	1.996623
1	1.557360	-4.733819	2.149106
1	2.234818	-3.251079	2.838315
1	0.666852	-3.203855	2.023356
9	5.162537	0.660768	-2.454124
9	7.367593	2.171672	-2.757404
9	8.076100	3.952490	-0.830130
9	6.569693	4.184334	1.424280
9	4.357009	2.702508	1.724756
9	-5.230440	-2.676339	2.080903
9	-7.774269	-3.302795	1.440803
9	-8.707344	-2.810038	-1.058994
9	-7.079723	-1.681158	-2.924152
9	-4.547223	-1.015245	-2.275758
6	-1.920142	-3.743987	-2.301775

1	-0.936901	-3.278977	-2.423539
1	-1.902998	-4.725944	-2.786979
1	-2.649868	-3.116176	-2.826454
6	-1.134565	-4.954151	0.442588
1	-1.116983	-5.968602	0.028558
1	-0.129670	-4.538019	0.368409
1	-1.395621	-5.026241	1.504259
6	-4.019893	-4.826465	-0.363025
1	-4.410118	-4.838152	0.659945
1	-4.796408	-4.440997	-1.030029
1	-3.825221	-5.866660	-0.650324
5	-4.780633	0.903221	0.500916
6	-4.691975	2.022340	-0.595708
6	-6.133055	0.556225	1.221335
6	-3.715904	2.003494	-1.602635
6	-5.515691	3.154827	-0.582179
6	-7.359418	0.601418	0.554473
6	-6.162012	-0.003050	2.501923
9	-2.874199	0.979034	-1.742566
6	-3.562187	3.029660	-2.523789
6	-5.378449	4.205011	-1.474472
9	-6.460066	3.285584	0.352654
9	-7.428506	1.052267	-0.701147
6	-8.539174	0.126474	1.109697
6	-7.323129	-0.474750	3.094175
9	-5.034949	-0.137902	3.205462
9	-2.624270	2.958448	-3.463657
6	-4.395390	4.136634	-2.455576
9	-6.174105	5.267499	-1.408214
9	-9.674342	0.153849	0.418389
6	-8.518834	-0.411353	2.389601
9	-7.299290	-1.004747	4.312327
9	-4.258836	5.126307	-3.323240
9	-9.633162	-0.877469	2.931656
5	5.073921	-1.006157	0.497566
6	5.492934	-0.351783	1.878436
6	6.134532	-1.745837	-0.386561
6	4.673036	-0.417351	2.999602
6	6.597374	0.491655	1.986816
6	7.397298	-2.118113	0.101275
6	5.880175	-2.132856	-1.710445
9	3.596354	-1.213328	2.994360
6	4.919431	0.303677	4.159956
6	6.856737	1.258768	3.109288
9	7.416130	0.648835	0.939155
9	7.736936	-1.896877	1.370781
6	8.350111	-2.766721	-0.667199
6	6.813393	-2.775425	-2.509693
9	4.687574	-1.937491	-2.269252
9	4.114046	0.192380	5.214754
6	6.013158	1.154965	4.209489
9	7.889434	2.096841	3.135070
9	9.530807	-3.094660	-0.151196
6	8.058365	-3.089708	-1.984987
9	6.517252	-3.112431	-3.761267
9	6.253810	1.867239	5.301007
9	8.956325	-3.712558	-2.730429
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5	0.959440	0.853815	0.258066
14	-1.736792	2.640114	1.550453
6	-1.698867	1.091409	0.420264
6	-0.484314	0.327781	0.098085
6	-0.810351	-0.949926	-0.360541
6	-2.202397	-1.167272	-0.488202
6	-3.458420	2.817538	2.259965
1	-3.460845	3.643410	2.980343
1	-3.781390	1.906375	2.772202
1	-4.197023	3.042721	1.484592
6	-1.302979	4.208762	0.606842
1	-1.708121	4.196574	-0.411264
1	-0.222886	4.370806	0.544368
1	-1.737200	5.070787	1.124909
6	-0.494606	2.303880	2.916448
1	0.540422	2.321917	2.555148
1	-0.673834	1.329748	3.380157
1	-0.581298	3.073075	3.691859
6	-4.445483	0.145710	0.538802
6	-4.901541	-0.676397	1.582332
1	-4.199970	-1.344630	2.077712
6	-6.231126	-0.652524	1.998428
1	-6.557224	-1.298311	2.808466
6	-7.140056	0.200030	1.374679
1	-8.177153	0.222225	1.695362
6	-6.710572	1.020289	0.333117
1	-7.414557	1.682076	-0.162939
6	-5.380144	0.987121	-0.079985
1	-5.071464	1.623810	-0.906508
6	-2.380006	1.272532	-0.932543
6	0.243966	-1.895199	-0.817626
9	-0.025168	-3.264993	1.086782
6	0.584158	-3.023110	-0.077961
9	1.906327	-4.949881	0.254202
6	1.582430	-3.894898	-0.487779
9	3.218346	-4.474265	-2.076064
6	2.261302	-3.646799	-1.674225
9	2.598545	-2.289872	-3.566892
6	1.946278	-2.527702	-2.432929
9	0.669319	-0.593666	-2.735851
6	0.949519	-1.667905	-1.994533
6	1.417494	2.244023	-0.291561
9	2.863600	2.636903	1.541875
6	2.338811	3.048116	0.384185
9	3.590060	5.040242	0.608559
6	2.723590	4.297289	-0.072848
9	2.567896	5.956725	-1.729807
6	2.201539	4.769008	-1.272706
9	0.813498	4.443292	-3.144363
6	1.303086	3.994850	-1.992580
9	0.069779	2.046917	-2.228234
6	0.926840	2.755990	-1.493891
6	1.949066	-0.076342	1.049935
9	0.243385	-0.863791	2.506834
6	1.508516	-0.910509	2.082372
9	1.878131	-2.594883	3.694841
6	2.340893	-1.817084	2.721056
9	4.478782	-2.770288	2.932233
6	3.671031	-1.907261	2.333805
9	5.431279	-1.178882	0.953268
6	4.156599	-1.088697	1.321928
9	3.809251	0.572125	-0.261385
6	3.299170	-0.187304	0.711199
14	-3.014910	-2.648084	-1.331226
6	-3.215968	-4.012091	-0.053286
1	-3.903969	-3.697070	0.738251
1	-3.622967	-4.917094	-0.516906
1	-2.258418	-4.265804	0.411584
6	-1.961312	-3.260908	-2.768882
1	-1.597014	-2.428921	-3.381922
1	-1.095434	-3.841075	-2.433199
1	-2.565461	-3.910325	-3.411958
6	-4.694176	-2.117455	-1.981312
1	-5.392497	-1.919183	-1.162605
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1	-5.119476	-2.904898	-2.612973
78			
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5	0.217377	1.305284	-0.121862
14	-2.721524	0.102803	2.090706
6	-2.061253	-0.057251	0.182480
6	-0.535863	0.047279	0.061941
6	-0.085375	-1.305566	0.086112
6	-1.048343	-2.319907	0.088545
6	-3.776580	-1.355874	2.607011
1	-3.945275	-1.236229	3.684866
1	-3.274705	-2.315646	2.453947
1	-4.751896	-1.392406	2.117575
6	-3.773684	1.647783	2.169419

1	-4.580904	1.631335	1.428161
1	-3.200620	2.568056	2.045565
1	-4.247075	1.682578	3.157121
6	-1.176785	0.097902	3.125196
1	-0.490205	0.909906	2.886176
1	-0.649002	-0.851888	2.993047
1	-1.477161	0.177579	4.176434
6	-3.775878	-2.142486	-0.631522
6	-3.862662	-3.369411	-1.310811
1	-2.966118	-3.969011	-1.440004
6	-5.064724	-3.827702	-1.842117
1	-5.099301	-4.779061	-2.363612
6	-6.219830	-3.060869	-1.708262
1	-7.160100	-3.415102	-2.119117
6	-6.163476	-1.831968	-1.051548
1	-7.057994	-1.225792	-0.949928
6	-4.955240	-1.382559	-0.530566
1	-4.945608	-0.420876	-0.018318
6	-2.727880	0.760004	-0.678996
6	1.372871	-1.610683	0.064355
9	1.735462	-0.679929	2.204976
6	2.219634	-1.287011	1.119275
9	4.373037	-1.180134	2.078873
6	3.580512	-1.543482	1.072852
9	5.429067	-2.392838	-0.109427
6	4.123851	-2.159332	-0.048194
9	3.825149	-3.063107	-2.200533
6	3.304572	-2.496113	-1.116229
9	1.196667	-2.518815	-2.109634
6	1.945808	-2.216695	-1.048723
6	-0.525893	2.707486	-0.279778
9	-0.936309	3.033796	2.028176
6	-1.051195	3.458965	0.760766
9	-2.248155	5.317319	1.593340
6	-1.728229	4.655227	0.561236
9	-2.508546	6.294555	-0.938028
6	-1.865479	5.150883	-0.726626
9	-1.459807	4.918930	-3.034690
6	-1.328566	4.446477	-1.797059
9	-0.180620	2.579855	-2.604335
6	-0.671226	3.250370	-1.553048
6	1.799953	1.380165	-0.220851
9	1.848219	2.370842	1.912893
6	2.515371	1.901561	0.848989
9	4.551900	2.415930	1.943279
6	3.902458	1.927065	0.888728
9	5.944069	1.426515	-0.174732
6	4.614538	1.425991	-0.192833
9	4.618913	0.388144	-2.307103
6	3.934995	0.907591	-1.287575
9	1.933924	0.362007	-2.349244
6	2.547193	0.904241	-1.288902
14	-0.686407	-4.131540	0.448319
6	-2.146797	-4.852524	1.395804
1	-3.111536	-4.663004	0.916574
1	-2.025519	-5.937224	1.495347
1	-2.183691	-4.433508	2.407801
6	0.811373	-4.309500	1.585046
1	1.764040	-4.235851	1.050993
1	0.805699	-3.556483	2.381798
1	0.775736	-5.296675	2.060337
6	-0.345837	-5.164466	-1.089619
1	-1.188197	-5.195428	-1.787244
1	0.521177	-4.779510	-1.634490
1	-0.126473	-6.195210	-0.788138

78

TS[4c,1cKD] E(RM062X) = -2976.69662848

8	-2.858154	2.737602	-1.011994
5	-2.726724	-0.664267	-0.137587
5	0.709059	1.270035	-0.219354
14	-2.888014	-0.064330	2.076886
14	-2.068618	-3.606647	0.136249
6	-1.816925	0.632185	-0.194200
6	-0.424695	0.262243	-0.073359
6	-0.394514	-1.136574	0.132267
6	-1.678916	-1.751254	0.128700
6	-4.092946	-1.302996	2.800879
1	-4.509890	-0.853084	3.710574
1	-3.557873	-2.212069	3.084523
1	-4.919867	-1.573321	2.142006
6	-3.627489	1.665013	2.165457
1	-4.338939	1.895600	1.367333
1	-2.826167	2.410733	2.135659
1	-4.155253	1.775954	3.119847
6	-1.311586	-0.120455	3.059827
1	-0.538187	0.535298	2.662470
1	-0.914694	-1.136876	3.132555
1	-1.564159	0.228053	4.069507
6	-3.760528	-3.983731	0.871837
1	-4.036045	-4.990631	0.535009
1	-4.529759	-3.292337	0.511849
1	-3.774555	-3.989365	1.963605
6	-2.176668	-4.243005	-1.643640
1	-1.580691	-3.659404	-2.347943
1	-3.218716	-4.228270	-1.978784
1	-1.824684	-5.280370	-1.682763
6	-0.803241	-4.612597	1.111635
1	-0.460693	-4.085378	2.008984
1	0.073913	-4.881289	0.516599
1	-1.276727	-5.546917	1.434287
6	-4.160217	-0.816914	-0.800524
6	-4.183543	-1.473770	-2.044666
1	-3.249957	-1.837862	-2.465840
6	-5.365968	-1.663898	-2.755090
1	-5.344660	-2.177233	-3.712072
6	-6.571713	-1.195634	-2.237020
1	-7.498298	-1.343720	-2.783143
6	-6.577078	-0.532566	-1.012890
1	-7.509504	-0.159279	-0.600126
6	-5.387527	-0.345918	-0.309830
1	-5.437741	0.169381	0.645115
6	-2.317601	1.794984	-0.635205
6	0.902719	-1.833718	0.363125
9	1.528723	-0.422491	2.170300
6	1.808506	-1.438844	1.348389
9	3.911791	-1.561339	2.405740
6	3.067711	-2.006698	1.477107
9	4.661296	-3.568724	0.727390
6	3.456217	-3.024218	0.618017
9	2.945452	-4.410860	-1.215175
6	2.583920	-3.445803	-0.374725
9	0.549930	-3.262839	-1.480420
6	1.338722	-2.844715	-0.489983
6	0.367856	2.812558	-0.212251
9	-0.462282	2.777314	2.000461
6	-0.220111	3.457087	0.870490
9	-1.153267	5.369600	1.896607
6	-0.586037	4.794073	0.840289
9	-0.696026	6.810948	-0.364973
6	-0.351391	5.531219	-0.313212
9	0.462517	5.636636	-2.518991
6	0.244467	4.929625	-1.414314
9	1.152424	3.030478	-2.423090
6	0.600356	3.590871	-1.341571
6	2.209175	0.862989	-0.465180
9	2.894552	2.214371	1.341306
6	3.209029	1.351760	0.369191
9	5.456586	1.406229	1.107235
6	4.530464	0.935779	0.276916
9	6.135925	-0.403044	-0.802081
6	4.879710	0.011515	-0.698506
9	4.242207	-1.397334	-2.476356
6	3.911206	-0.489504	-1.561044
9	1.694507	-0.575027	-2.267665
6	2.602057	-0.052230	-1.436094

78

1cKD E(RM062X) = -2976.74141144

8	-2.299298	3.366357	-1.280025
5	-2.867085	0.071914	-0.278180
5	0.913549	1.159843	-0.361357
14	-2.532164	-1.660835	1.985900
14	-2.750053	-2.664294	-1.046821

6	-1.725436	1.053039	-0.584287
6	-0.429079	0.395386	-0.364963
6	-0.670733	-0.906409	-0.003227
6	-2.133262	-1.268894	0.139413
6	-4.228518	-2.442262	2.212563
1	-4.472435	-2.392613	3.280816
1	-4.210903	-3.501037	1.933109
1	-5.034321	-1.958201	1.658530
6	-2.406883	-0.044197	2.937282
1	-3.123177	0.713047	2.600413
1	-1.402450	0.373771	2.816498
1	-2.574694	-0.217364	4.006027
6	-1.309516	-2.872441	2.758893
1	-0.447671	-2.357775	3.192783
1	-0.944466	-3.633082	2.062095
1	-1.824836	-3.389947	3.576283
6	-4.624054	-2.808651	-1.154514
1	-4.820327	-3.550361	-1.939965
1	-5.117521	-1.878745	-1.446721
1	-5.087012	-3.178369	-0.237238
6	-2.168998	-2.176351	-2.771747
1	-1.202618	-1.665483	-2.755682
1	-2.907084	-1.500200	-3.219078
1	-2.080857	-3.050459	-3.425754
6	-2.195030	-4.375474	-0.480590
1	-2.774274	-4.674116	0.400604
1	-1.136850	-4.477906	-0.236228
1	-2.422262	-5.094962	-1.276270
6	-4.372679	0.454690	-0.486935
6	-4.773174	0.860422	-1.772671
1	-4.041299	0.889536	-2.578057
6	-6.094114	1.205791	-2.047897
1	-6.378237	1.499421	-3.053811
6	-7.045317	1.181781	-1.030371
1	-8.075432	1.453589	-1.239062
6	-6.664034	0.818037	0.259480
1	-7.394675	0.815842	1.062755
6	-5.345128	0.455789	0.523624
1	-5.072232	0.189835	1.540511
6	-1.985966	2.299487	-0.959550
6	0.469155	-1.800711	0.349822
9	0.987898	-0.443066	2.215858
6	1.275961	-1.499292	1.446077
9	3.149962	-1.897894	2.821834
6	2.406388	-2.232073	1.771388
9	3.855727	-4.015576	1.266044
6	2.769168	-3.311743	0.977770
9	2.371192	-4.633562	-0.927617
6	2.004344	-3.631581	-0.134806
9	0.238520	-3.171229	-1.567630
6	0.880677	-2.873545	-0.437653
6	0.869507	2.711175	-0.089362
9	-0.502469	2.463048	1.822081
6	0.153778	3.259916	0.973808
9	-0.591694	5.110980	2.240551
6	0.096155	4.624971	1.211418
9	0.719165	6.797979	0.567666
6	0.771249	5.489202	0.360130
9	2.146668	5.816267	-1.521068
6	1.502836	4.984827	-0.706709
9	2.265632	3.164331	-1.939832
6	1.551202	3.613353	-0.903456
6	2.320084	0.505873	-0.600027
9	3.319687	1.848667	1.076479
6	3.430845	0.889992	0.154210
9	5.696939	0.660040	0.784025
6	4.670623	0.278665	0.029775
9	6.004738	-1.349537	-1.017307
6	4.831353	-0.747231	-0.891621
9	3.903612	-2.145361	-2.545297
6	3.757480	-1.147992	-1.677191
9	1.535820	-0.932404	-2.309579
6	2.535473	-0.511282	-1.529352
54			
1d	E(RM062X) =	-1384.05145528	
5	-1.731699	-0.102972	0.082335
14	0.190427	-2.483002	0.764455
14	-2.688014	2.932603	-0.264724
6	-0.269804	-0.756073	0.180654
6	0.552127	0.302307	-0.014331
6	-0.205224	1.603589	-0.177196
6	-1.538545	1.473893	-0.033008
6	0.057436	-3.814299	-0.566938
1	0.691305	-4.663081	-0.286360
1	0.394459	-3.455238	-1.543376
1	-0.964712	-4.190515	-0.668133
6	-1.010520	-2.900506	2.154799
1	-2.045362	-2.922473	1.798773
1	-0.946446	-2.165138	2.964176
1	-0.775253	-3.884684	2.575305
6	1.929573	-2.553579	1.491507
1	1.984129	-3.424897	2.154485
1	2.173634	-1.666964	2.085528
1	2.700140	-2.680085	0.725926
6	-3.526458	3.404483	1.355588
1	-4.123945	4.311916	1.211215
1	-2.778741	3.616053	2.127100
1	-4.194563	2.628812	1.741411
6	-3.985224	2.557256	-1.574705
1	-4.609597	1.701777	-1.300101
1	-3.511222	2.332473	-2.536004
1	-4.640438	3.423856	-1.717655
6	-1.670654	4.414261	-0.823484
1	-2.320509	5.283719	-0.970835
1	-1.156352	4.216325	-1.769730
1	-0.916126	4.687492	-0.077740
6	-3.068826	-0.874169	-0.063980
6	-3.122960	-2.095638	-0.756973
1	-2.213680	-2.493807	-1.199228
6	-4.319623	-2.788034	-0.912862
1	-4.342150	-3.720953	-1.467591
6	-5.488956	-2.283002	-0.344421
1	-6.423067	-2.826424	-0.450516
6	-5.461494	-1.078168	0.357611
1	-6.372046	-0.685282	0.799210
6	-4.265867	-0.375937	0.477493
1	-4.253279	0.568486	1.015892
6	2.027827	0.323297	-0.091465
6	2.752663	-0.592439	-0.853040
6	2.766069	1.311080	0.562998
6	4.135041	-0.542919	-0.951116
6	4.148050	1.381131	0.483807
6	4.835982	0.449579	-0.281222
9	2.138807	2.215582	1.318737
9	4.817502	2.327062	1.137791
9	6.159760	0.504718	-0.365996
9	4.790563	-1.440441	-1.683240
9	2.128169	-1.572583	-1.510531
1	0.331651	2.523349	-0.408818
56			
1dAD	E(RM062X) =	-1497.35246501	
5	-1.639659	-0.057942	0.427737
14	0.317206	-2.359763	1.039308
14	-2.792002	2.728086	-0.397458
6	-0.108677	-0.630489	0.451677
6	0.666270	0.404077	0.030829
6	-0.109902	1.630116	-0.273009
6	-1.439179	1.482018	-0.081993
6	-0.121472	-3.633480	-0.271975
1	0.123032	-4.638628	0.089882
1	0.429281	-3.462682	-1.200958
1	-1.192094	-3.603811	-0.497955
6	-0.786815	-2.678943	2.534456
1	-1.845160	-2.550886	2.274262
1	-0.552689	-2.013590	3.372586
1	-0.659465	-3.709069	2.884571
6	2.112117	-2.567861	1.571741
1	2.188024	-3.448422	2.219801
1	2.474911	-1.704342	2.139229
1	2.781192	-2.728394	0.721567
6	-3.910797	2.755514	1.117311
1	-4.734611	3.464669	0.983940

1	-3.363613	3.042152	2.021864
1	-4.353486	1.765678	1.283707
6	-3.802561	2.181733	-1.886239
1	-4.253630	1.199425	-1.708676
1	-3.176572	2.107510	-2.781563
1	-4.606555	2.897059	-2.092418
6	-2.049984	4.427552	-0.700205
1	-2.836318	5.172763	-0.860167
1	-1.407044	4.426342	-1.586795
1	-1.446462	4.751572	0.154044
6	-2.827531	-0.919345	-0.205302
6	-4.048930	-1.180634	0.427352
1	-4.218943	-0.841099	1.448590
6	-5.070304	-1.872981	-0.224822
1	-6.008854	-2.061575	0.287927
6	-4.884181	-2.322167	-1.528823
1	-5.676458	-2.860747	-2.039605
6	-3.671263	-2.078727	-2.175049
1	-3.517035	-2.429775	-3.191270
6	-2.658997	-1.385506	-1.517909
1	-1.714677	-1.200320	-2.027531
6	-1.825912	0.262351	1.962218
8	-1.850916	0.586235	3.047065
6	2.135984	0.393039	-0.159705
6	2.784563	-0.602639	-0.886343
6	2.937608	1.413014	0.352110
6	4.158837	-0.609127	-1.072065
6	4.312971	1.434654	0.175399
6	4.926636	0.417039	-0.541721
9	2.383958	2.402900	1.057384
9	5.046465	2.419737	0.688786
9	6.243957	0.423514	-0.714463
9	4.741034	-1.589653	-1.758882
9	2.087588	-1.609384	-1.421815
1	0.382088	2.530204	-0.642830
56			
2d	E(RM062X) =	-1497.34506547	
5	3.171567	-0.897527	0.727421
14	1.057551	1.874132	3.365269
14	2.174441	-3.344865	-0.770801
6	1.467737	0.594488	2.035666
6	0.583644	0.162228	1.111723
6	0.804330	-0.971692	0.171714
6	1.986082	-1.628945	0.028851
6	2.371061	3.214319	3.339768
1	2.170375	3.966543	4.109963
1	2.399769	3.722799	2.370856
1	3.358426	2.784033	3.530510
6	1.004004	1.037192	5.044440
1	1.972607	0.584912	5.274225
1	0.243247	0.250473	5.068168
1	0.764944	1.762670	5.829456
6	-0.624812	2.603528	2.957149
1	-0.881623	3.382257	3.683051
1	-1.413172	1.844321	2.994260
1	-0.635631	3.059264	1.961515
6	3.600180	-4.172205	0.133492
1	3.706229	-5.209084	-0.203425
1	3.432854	-4.186885	1.215990
1	4.546841	-3.656631	-0.056828
6	2.537475	-3.364230	-2.617224
1	3.567050	-3.065594	-2.834576
1	1.863500	-2.716446	-3.183374
1	2.406438	-4.390090	-2.980329
6	0.610403	-4.353382	-0.466859
1	0.856357	-5.418046	-0.548438
1	-0.173498	-4.139752	-1.200956
1	0.200022	-4.179541	0.533759
6	4.571459	-0.746227	0.082307
6	5.715205	-0.494847	0.861906
1	5.606673	-0.377677	1.935893
6	6.973700	-0.407675	0.274047
1	7.850698	-0.233319	0.889425
6	7.106065	-0.529015	-1.109085
1	8.086818	-0.449188	-1.568159
6	5.980531	-0.741611	-1.906587
1	6.082836	-0.818069	-2.984540
6	4.729615	-0.859143	-1.311595
1	3.851166	-1.013344	-1.933682
6	-0.413066	-1.380018	-0.586384
9	-1.531574	-1.960516	1.402332
6	-1.540681	-1.862887	0.071251
9	-3.716767	-2.779397	0.038126
6	-2.663121	-2.298517	-0.615452
9	-3.746713	-2.649329	-2.674086
6	-2.677466	-2.238161	-2.003391
9	-1.597661	-1.669470	-4.015507
6	-1.576068	-1.743011	-2.687714
9	0.567656	-0.824681	-2.666967
6	-0.464815	-1.312512	-1.975192
6	2.804388	-0.074056	2.055930
8	3.535597	0.047426	3.034988
1	-0.415329	0.596901	1.079472
56			
4d	E(RM062X) =	-1497.32719758	
8	2.909002	1.463446	-2.969285
5	1.746114	-0.244977	-0.272247
14	1.928876	2.649504	0.545777
6	1.546209	1.335718	-0.874762
6	0.058629	1.426461	-1.095350
6	-0.533578	0.336729	-0.534901
6	0.356936	-0.657470	0.029413
6	3.765258	2.929105	0.773295
1	3.882864	3.799493	1.429624
1	4.257368	2.080479	1.255171
1	4.286216	3.155336	-0.162970
6	1.117713	4.237932	-0.022650
1	1.420045	4.510418	-1.039335
1	0.027623	4.150949	0.003395
1	1.410197	5.056864	0.643410
6	1.145850	1.990796	2.102722
1	0.118838	1.664484	1.916959
1	1.713917	1.154282	2.517485
1	1.124071	2.798188	2.844111
6	3.143005	-0.952517	-0.252619
6	3.208626	-2.354751	-0.147405
1	2.284472	-2.922511	-0.079494
6	4.420301	-3.038124	-0.150230
1	4.431214	-4.120572	-0.063234
6	5.617747	-2.335533	-0.280637
1	6.565516	-2.865144	-0.287295
6	5.585689	-0.950263	-0.421661
1	6.509754	-0.392742	-0.542135
6	4.365886	-0.278263	-0.411982
1	4.378715	0.801368	-0.534542
6	2.269324	1.426907	-2.020496
6	-2.016535	0.241699	-0.505291
9	-2.203606	2.116481	0.926134
6	-2.787595	1.134865	0.231205
9	-4.875894	1.879774	1.045822
6	-4.167748	1.017780	0.318558
9	-6.132725	-0.131340	-0.281927
6	-4.811033	-0.011186	-0.354509
9	-4.687161	-1.894114	-1.762494
6	-4.070451	-0.913184	-1.106662
9	-2.011108	-1.661240	-1.905498
6	-2.691999	-0.773819	-1.176013
14	-0.207958	-1.975153	1.222477
6	1.065182	-2.201944	2.596924
1	2.068403	-2.434296	2.230914
1	0.752556	-3.011607	3.266658
1	1.130482	-1.284777	3.193393
6	-1.795173	-1.468383	2.124925
1	-2.698462	-1.574878	1.515329
1	-1.742201	-0.430548	2.475071
1	-1.916738	-2.108954	3.006629
6	-0.555217	-3.646033	0.413153
1	0.338414	-4.089478	-0.038256
1	-1.305514	-3.539287	-0.376777
1	-0.941582	-4.354300	1.155053
1	-0.419303	2.268454	-1.577690
64			

1e	E(RM062X) =	-2740.42574790	
5	2.914154	0.041243	-0.278030
5	-0.850142	0.826481	0.225635
14	3.081318	-2.721852	-1.765836
6	1.682542	1.000189	0.017871
6	0.554259	0.284792	-0.161074
6	0.927495	-1.106753	-0.683092
6	2.260980	-1.308063	-0.827832
6	3.934075	-3.996034	-0.670070
1	4.456268	-4.713035	-1.314126
1	3.195730	-4.549989	-0.084465
1	4.668688	-3.581599	0.024793
6	4.332603	-1.928170	-2.930040
1	5.097405	-1.348674	-2.405982
1	3.824524	-1.255867	-3.630034
1	4.837240	-2.702596	-3.518410
6	1.872689	-3.664053	-2.865193
1	2.455860	-4.193624	-3.627475
1	1.175629	-2.998312	-3.384275
1	1.292961	-4.415168	-2.321387
6	4.380544	0.405356	0.042690
6	4.725683	1.751953	0.270398
1	3.956957	2.517103	0.208236
6	6.033001	2.127285	0.561101
1	6.278924	3.172193	0.720779
6	7.025953	1.152872	0.656908
1	8.046191	1.440285	0.892413
6	6.711117	-0.191619	0.455053
1	7.483148	-0.949870	0.537400
6	5.405659	-0.553165	0.144354
1	5.170008	-1.600471	-0.011963
6	-0.164952	-2.067552	-0.950607
9	0.905568	-3.806490	0.243376
6	-0.160996	-3.355821	-0.415755
9	-1.211722	-5.424245	0.007277
6	-1.254092	-4.203966	-0.517764
9	-3.459043	-4.566146	-1.255628
6	-2.404825	-3.767256	-1.161595
9	-3.559765	-2.047206	-2.284312
6	-2.451204	-2.486255	-1.696056
9	-1.437238	-0.418655	-2.063534
6	-1.337548	-1.668289	-1.590040
6	-1.159595	2.340938	-0.040575
9	-0.026656	2.345956	-2.126796
6	-0.698935	3.002905	-1.181116
9	-0.501007	4.939767	-2.522197
6	-0.946928	4.348333	-1.416307
9	-1.910653	6.367012	-0.694550
6	-1.672648	5.079192	-0.487045
9	-2.858009	5.162361	1.545247
6	-2.157324	4.460067	0.658055
9	-2.400758	2.556497	1.961778
6	-1.905056	3.112387	0.853168
6	-1.929244	-0.100360	0.893749
9	-0.282199	-1.499068	1.863923
6	-1.568170	-1.250616	1.598922
9	-2.083656	-3.303471	2.646847
6	-2.485185	-2.199132	2.023195
9	-4.727624	-2.889643	2.164391
6	-3.835327	-1.994859	1.768140
9	-5.540356	-0.658599	0.851809
6	-4.247862	-0.852141	1.095055
9	-3.752859	1.132451	0.010630
6	-3.299375	0.070876	0.678052
1	1.665555	2.018050	0.399892
66			
1eAD	E(RM062X) =	-2853.71867227	
5	2.795406	-0.644516	0.536026
5	-0.767033	0.992538	0.347907
14	2.509489	-3.412247	-0.839383
6	1.748678	0.579010	0.699297
6	0.555161	0.200033	0.183860
6	0.648417	-1.184992	-0.364123
6	1.862316	-1.763904	-0.224119
6	3.339954	-4.257828	0.622833
1	3.746514	-5.229942	0.323982
1	2.635868	-4.427501	1.444548
1	4.175652	-3.658666	1.003254
6	3.786713	-3.095006	-2.183066
1	4.651883	-2.550548	-1.791427
1	3.359152	-2.505302	-3.000670
1	4.137077	-4.046271	-2.599113
6	1.173789	-4.539162	-1.532965
1	1.645158	-5.459262	-1.896678
1	0.645244	-4.081156	-2.375226
1	0.438457	-4.818805	-0.773161
6	4.268705	-0.379967	-0.016859
6	5.439001	-0.927983	0.520472
1	5.396269	-1.523134	1.431317
6	6.676604	-0.730422	-0.092413
1	7.570855	-1.167124	0.342095
6	6.763669	0.025989	-1.258407
1	7.724952	0.179406	-1.738936
6	5.609432	0.590907	-1.801826
1	5.670695	1.186925	-2.707551
6	4.378632	0.390338	-1.183863
1	3.480781	0.831790	-1.613136
6	-0.558295	-1.743803	-1.027935
9	-0.903727	-3.346702	0.673506
6	-1.314604	-2.759970	-0.455132
9	-3.267906	-4.079109	-0.363689
6	-2.542885	-3.143734	-0.972603
9	-4.206953	-2.878637	-2.615346
6	-3.034054	-2.516169	-2.110298
9	-2.777427	-0.886497	-3.789346
6	-2.302962	-1.498157	-2.708291
9	-0.439698	-0.085416	-2.696591
6	-1.088544	-1.119400	-2.153650
6	-0.851126	2.506357	-0.019213
9	0.852731	2.333597	-1.671567
6	-0.019769	3.075808	-0.991668
9	0.720228	4.921257	-2.269238
6	-0.079238	4.420006	-1.331263
9	-1.049191	6.532951	-0.995013
6	-0.987555	5.246477	-0.685501
9	-2.707248	5.521022	0.898029
6	-1.836738	4.725299	0.282551
9	-2.600554	2.926115	1.523034
6	-1.762124	3.377059	0.588671
6	-2.011637	0.195829	0.897605
9	-0.671910	-1.108548	2.358343
6	-1.866303	-0.839680	1.823469
9	-2.726214	-2.642113	3.084105
6	-2.917388	-1.657663	2.211351
9	-5.188247	-2.233144	2.007224
6	-4.174918	-1.452768	1.659948
9	-5.572408	-0.238724	0.206475
6	-4.369053	-0.430202	0.739471
9	-3.527837	1.331989	-0.517654
6	-3.297028	0.375849	0.385629
6	2.728638	-1.250634	1.996127
8	2.546049	-1.703164	3.016046
1	1.911039	1.541280	1.179686
66			
2e	E(RM062X) =	-2853.70625332	
5	2.975290	-1.487531	1.220431
5	-0.617027	0.881362	0.456066
14	2.072254	-3.793660	-0.578800
6	1.283851	0.255424	2.031000
6	0.531827	-0.074832	0.962766
6	0.754969	-1.364866	0.218885
6	1.870959	-2.124235	0.314408
6	3.474656	-4.734178	0.242695
1	3.536528	-5.742725	-0.180415
1	3.304263	-4.835275	1.320265
1	4.441968	-4.245285	0.097695
6	2.430861	-3.543416	-2.411619
1	3.480108	-3.297499	-2.599261
1	1.815772	-2.744714	-2.838017
1	2.205929	-4.468825	-2.953259
6	0.508114	-4.834708	-0.429172
1	0.779770	-5.888160	-0.559545

1	-0.223022	-4.585716	-1.204302
1	0.026346	-4.730967	0.547554
6	4.481349	-1.440955	0.873364
6	5.450905	-1.251288	1.875101
1	5.128805	-1.119928	2.903926
6	6.806979	-1.241559	1.562524
1	7.545838	-1.116240	2.347637
6	7.215487	-1.375536	0.235846
1	8.273005	-1.354467	-0.009458
6	6.269712	-1.525750	-0.779975
1	6.589242	-1.613247	-1.813504
6	4.918581	-1.569370	-0.457920
1	4.181998	-1.681953	-1.249693
6	-0.420466	-1.745129	-0.630875
9	-1.452585	-2.792315	1.211531
6	-1.504544	-2.413392	-0.067385
9	-3.710517	-3.242593	-0.195705
6	-2.670640	-2.648046	-0.775138
9	-3.895670	-2.401753	-2.766566
6	-2.771763	-2.206110	-2.090760
9	-1.803472	-1.117786	-3.937795
6	-1.706731	-1.544720	-2.684263
9	0.445051	-0.642937	-2.528144
6	-0.549416	-1.316538	-1.946254
6	-0.194832	2.140254	-0.360435
9	1.871101	1.168492	-1.029413
6	1.036583	2.207362	-1.026747
9	2.612251	3.342815	-2.371026
6	1.443132	3.325575	-1.738607
9	0.993199	5.515111	-2.455762
6	0.614538	4.438069	-1.787010
9	-1.399473	5.493737	-1.181775
6	-0.613275	4.422646	-1.136572
9	-2.180244	3.326421	0.164349
6	-0.997999	3.284699	-0.448693
6	-2.122276	0.509367	0.686472
9	-1.705833	-0.405778	2.826943
6	-2.546809	-0.193795	1.816532
9	-4.188976	-1.378632	3.031788
6	-3.827236	-0.711814	1.940961
9	-5.951510	-1.050786	0.995667
6	-4.733061	-0.542191	0.901738
9	-5.210861	0.284967	-1.250086
6	-4.355830	0.152067	-0.240706
9	-2.745878	1.279455	-1.468983
6	-3.072512	0.670250	-0.325647
6	2.431088	-0.602240	2.440986
8	2.904273	-0.517854	3.567502
1	1.068316	1.131077	2.641465
66			
4e	E(RM062X) =	-2853.70660526	
8	-2.767595	0.884246	-2.438644
5	-2.374115	-1.684717	-0.259550
5	0.247392	1.302321	-0.291334
6	-2.030253	-0.043202	-0.211545
6	-0.500804	0.027436	-0.199630
6	-0.066587	-1.323572	-0.097152
6	-1.033057	-2.337932	-0.059857
6	-3.817876	-2.180181	-0.536043
6	-4.030889	-3.382259	-1.233104
1	-3.173846	-3.965471	-1.560548
6	-5.314116	-3.830596	-1.529575
1	-5.452896	-4.758211	-2.075717
6	-6.420206	-3.084420	-1.124591
1	-7.423117	-3.433568	-1.349582
6	-6.236971	-1.886857	-0.434652
1	-7.095987	-1.303689	-0.118544
6	-4.949859	-1.438133	-0.154876
1	-4.829610	-0.502196	0.387013
6	-2.451221	0.505667	-1.417161
6	1.393059	-1.615062	-0.030719
9	1.580129	-0.683584	2.128315
6	2.155724	-1.276870	1.081480
9	4.235025	-1.138124	2.189508
6	3.521083	-1.509025	1.129440
9	5.461560	-2.317190	0.074123
6	4.151444	-2.108217	0.045233
9	4.021027	-3.009712	-2.124865
6	3.415069	-2.457907	-1.078162
9	1.372517	-2.528821	-2.206017
6	2.048902	-2.207792	-1.102634
6	-0.523066	2.685654	-0.409580
9	-1.784475	2.360239	1.567052
6	-1.469279	3.124872	0.510462
9	-3.013083	4.731866	1.306630
6	-2.116859	4.348109	0.400061
9	-2.424862	6.352693	-0.792677
6	-1.814281	5.179547	-0.669003
9	-0.590871	5.577803	-2.640466
6	-0.874307	4.782492	-1.611591
9	0.645960	3.195771	-2.392503
6	-0.247814	3.554358	-1.462702
6	1.830384	1.401745	-0.270078
9	1.737072	2.399864	1.859448
6	2.471062	1.936636	0.839318
9	4.431284	2.479561	2.052500
6	3.853786	1.977249	0.963319
9	5.962250	1.490846	0.032768
6	4.637006	1.476505	-0.067995
9	4.783502	0.421350	-2.169427
6	4.032353	0.943283	-1.199912
9	2.101738	0.376546	-2.378953
6	2.648016	0.927301	-1.286420
14	-0.687866	-4.141661	0.356934
6	-2.148347	-4.831192	1.322532
1	-3.073113	-4.861357	0.740929
1	-1.920148	-5.852501	1.647381
1	-2.334802	-4.229461	2.218631
6	0.819395	-4.317798	1.480493
1	1.768244	-4.226682	0.942476
1	0.811454	-3.577604	2.288354
1	0.796795	-5.312064	1.941052
6	-0.386958	-5.179465	-1.184850
1	-1.254433	-5.197901	-1.852265
1	0.462646	-4.792905	-1.755750
1	-0.162772	-6.213416	-0.899810
1	-2.560769	0.423324	0.630125
42			
1f	E(RM062X) =	-1261.05428578	
5	-2.149453	1.029331	-0.262137
14	-0.799441	-1.612216	0.818162
6	-0.874922	0.081792	0.003047
6	0.177196	0.890666	-0.276106
6	-0.229314	2.295351	-0.670547
6	-1.556810	2.450485	-0.625350
6	-1.164206	-3.040964	-0.356264
1	-1.152685	-3.976664	0.214713
1	-0.388939	-3.109271	-1.124402
1	-2.131488	-2.974495	-0.861166
6	-2.049412	-1.598766	2.229606
1	-3.075991	-1.424102	1.896893
1	-1.793739	-0.815532	2.951994
1	-2.021667	-2.559130	2.756779
6	0.870028	-1.977113	1.621012
1	0.710575	-2.737061	2.394664
1	1.306479	-1.097628	2.105530
1	1.601420	-2.382707	0.916300
6	-3.659888	0.695629	-0.277843
6	-4.599496	1.740911	-0.195886
1	-4.247515	2.765859	-0.114150
6	-5.967709	1.489514	-0.204237
1	-6.674988	2.309125	-0.124960
6	-6.428062	0.178978	-0.326659
1	-7.495254	-0.021290	-0.343175
6	-5.520782	-0.875692	-0.432311
1	-5.880651	-1.894489	-0.535589
6	-4.155627	-0.614909	-0.397786
1	-3.456194	-1.441052	-0.477146
6	1.620593	0.570833	-0.243083
6	2.157402	-0.551914	-0.869289
6	2.525945	1.430433	0.380427
6	3.517455	-0.824020	-0.859108

6	3.889136	1.181502	0.406754
6	4.386990	0.047083	-0.219081
9	2.078213	2.525212	0.999712
9	4.718603	2.015476	1.028678
9	5.690114	-0.207147	-0.198514
9	3.991368	-1.915405	-1.455495
9	1.360724	-1.423084	-1.492456
1	0.513927	3.035435	-0.958408
1	-2.056142	3.373111	-0.902555
44			
1fAD	E(RM062X) =	-1374.35125611	
5	-2.023704	1.231340	-0.295232
14	-0.824400	-0.964926	1.515862
6	-0.715605	0.380006	0.214566
6	0.332845	0.867830	-0.497605
6	-0.036334	1.975810	-1.410057
6	-1.352392	2.248665	-1.359797
6	-1.678195	-2.479528	0.801226
1	-1.713029	-3.281237	1.547526
1	-1.151251	-2.855470	-0.080591
1	-2.705842	-2.238216	0.509044
6	-1.919936	-0.281949	2.891940
1	-2.913322	-0.013041	2.512857
1	-1.481348	0.599411	3.372312
1	-2.065039	-1.043022	3.666528
6	0.826995	-1.441982	2.288241
1	0.632261	-1.930101	3.249955
1	1.459402	-0.568962	2.481827
1	1.390994	-2.147579	1.672256
6	-3.350263	0.412070	-0.650658
6	-4.532766	0.433667	0.097378
1	-4.616816	1.082616	0.968172
6	-5.623661	-0.365745	-0.246827
1	-6.529041	-0.331515	0.351917
6	-5.550096	-1.204547	-1.354890
1	-6.396591	-1.828246	-1.625295
6	-4.382203	-1.235579	-2.118488
1	-4.317964	-1.885878	-2.986065
6	-3.299155	-0.435784	-1.767159
1	-2.388408	-0.472340	-2.362093
6	-2.186287	2.223708	0.924477
8	-2.177887	2.968578	1.775988
6	1.734621	0.390022	-0.443817
6	2.074958	-0.952621	-0.585821
6	2.787650	1.286165	-0.265394
6	3.388101	-1.393365	-0.513919
6	4.109426	0.873629	-0.197394
6	4.410447	-0.475601	-0.321278
9	2.531283	2.590144	-0.130299
9	5.086845	1.757508	-0.008062
9	5.671622	-0.886948	-0.247635
9	3.670925	-2.689128	-0.630123
9	1.126059	-1.874315	-0.778340
1	0.699318	2.463914	-2.045700
1	-1.829613	3.028732	-1.944657
44			
2f	E(RM062X) =	-1374.34556856	
5	3.040327	-1.589081	1.358117
14	2.071800	-3.668749	-0.629610
6	1.295680	-0.126763	2.604828
6	0.502145	-0.328205	1.540521
6	0.777447	-1.325296	0.471863
6	1.911541	-2.072201	0.395240
6	3.261480	-4.770176	0.323111
1	3.312045	-5.757848	-0.148015
1	2.935142	-4.910121	1.359499
1	4.272373	-4.350942	0.338729
6	2.709490	-3.469630	-2.388940
1	3.782967	-3.261346	-2.414244
1	2.191465	-2.677728	-2.935760
1	2.542591	-4.413475	-2.920697
6	0.398281	-4.534792	-0.707282
1	0.562719	-5.598857	-0.910753
1	-0.238613	-4.142154	-1.506891
1	-0.148856	-4.454993	0.238277
6	4.533261	-1.542483	0.950494
6	5.558037	-1.566772	1.914129
1	5.292522	-1.585892	2.966594
6	6.896085	-1.576967	1.531451
1	7.676806	-1.617587	2.284461
6	7.234418	-1.519166	0.179621
1	8.278814	-1.515286	-0.117345
6	6.234956	-1.454121	-0.792420
1	6.499691	-1.390060	-1.843198
6	4.899527	-1.477203	-0.406879
1	4.121027	-1.415871	-1.163559
6	-0.334359	-1.489931	-0.508080
9	-1.792302	-2.241345	1.180318
6	-1.585819	-1.946596	-0.104761
9	-3.794593	-2.622024	-0.595039
6	-2.617368	-2.159564	-1.005570
9	-3.387727	-2.091350	-3.227493
6	-2.408543	-1.894735	-2.353343
9	-0.984450	-1.150930	-4.072566
6	-1.177467	-1.420325	-2.784656
9	1.002213	-0.739828	-2.310966
6	-0.161126	-1.215227	-1.861042
6	2.564024	-0.889948	2.727094
8	3.161030	-0.928674	3.796733
1	1.000958	0.519487	3.427070
1	-0.448027	0.196189	1.471936
44			
4f	E(RM062X) =	-1374.31263040	
8	2.336811	2.831436	-2.104385
5	2.060596	0.647834	0.233703
6	1.654470	2.317053	0.271039
6	0.150132	2.301738	0.185062
6	-0.273246	1.008070	0.120943
6	0.751356	-0.020629	0.188592
6	3.564754	0.226208	0.178352
6	3.971295	-0.837833	-0.645204
1	3.223568	-1.361075	-1.237736
6	5.304604	-1.230317	-0.726027
1	5.589672	-2.056583	-1.370436
6	6.273360	-0.557665	0.017516
1	7.314625	-0.859694	-0.042372
6	5.899394	0.507042	0.835519
1	6.649439	1.035209	1.416746
6	4.563235	0.892709	0.908310
1	4.291972	1.722000	1.558484
6	2.056247	2.644461	-1.015266
6	-1.723761	0.699454	-0.000781
9	-2.172641	1.436312	2.197861
6	-2.608604	0.915805	1.049705
9	-4.770574	0.770028	1.989807
6	-3.948148	0.561911	0.963830
9	-5.711653	-0.355788	-0.296816
6	-4.429495	-0.020268	-0.199798
9	-4.034093	-0.794105	-2.387766
6	-3.570499	-0.244815	-1.267471
9	-1.435378	-0.110252	-2.199787
6	-2.236925	0.119183	-1.156654
14	0.405459	-1.834874	0.452672
6	1.787969	-2.613150	1.469269
1	2.750319	-2.594781	0.950472
1	1.542076	-3.658445	1.688841
1	1.912718	-2.089061	2.422915
6	-1.194497	-2.107441	1.428046
1	-2.091231	-1.989263	0.809839
1	-1.275056	-1.419344	2.277279
1	-1.204118	-3.129242	1.824979
6	0.240324	-2.794674	-1.163435
1	1.166142	-2.762512	-1.747983
1	-0.560306	-2.385097	-1.787058
1	0.008913	-3.846241	-0.958785
1	-0.449897	3.197351	0.099092
1	2.184519	2.877549	1.045911
25			
1M	E(RM062X) =	-376.630872432	
5	-0.060505	0.000870	1.114489
6	-0.777193	1.260772	0.480079
6	-1.675518	0.766296	-0.393345

6 -1.644998 -0.764571 -0.425518
6 -0.727285 -1.259022 0.427490
6 1.027002 -0.002716 2.240176
1 1.684569 -0.877689 2.214454
1 1.633723 0.907835 2.272924
1 0.486389 -0.050773 3.199192
6 -0.398342 -2.699646 0.684034
1 0.656121 -2.906859 0.462805
1 -0.543575 -2.952230 1.741817
1 -1.003094 -3.392982 0.091783
6 -0.504893 2.701380 0.796173
1 -0.659925 2.904591 1.863157
1 0.540730 2.958304 0.585364
1 -1.136118 3.394336 0.231754
6 -2.572825 -1.508162 -1.336729
1 -2.444443 -2.589345 -1.256447
1 -3.619303 -1.271816 -1.109250
1 -2.407663 -1.222568 -2.382637
6 -2.633598 1.509866 -1.272681
1 -2.460389 1.273530 -2.329489
1 -3.669561 1.224172 -1.053746
1 -2.546857 2.591049 -1.148602
27
TS[1,1MAD] E(RM062X) = -489.906867
5 0.991936 0.000071 -0.712741
8 1.538355 -0.000010 2.684677
6 1.699465 0.000017 1.565280
6 0.065230 -1.258772 -0.424934
6 -1.155753 -0.759345 -0.140679
6 -1.155831 0.759242 -0.140654
6 0.065102 1.258806 -0.424881
6 2.352530 0.000165 -1.498978
1 2.109546 0.000207 -2.571834
1 2.961468 0.891380 -1.314140
1 2.961550 -0.891011 -1.314225
6 0.465698 2.700827 -0.522448
1 0.841271 2.934295 -1.526899
1 -0.352428 3.393969 -0.303995
1 1.286198 2.927455 0.170401
6 -2.422877 1.505368 0.154837
1 -2.808046 1.246950 1.148789
1 -2.278194 2.587054 0.119212
1 -3.209581 1.244523 -0.563448
6 -2.422717 -1.505612 0.154803
1 -2.807899 -1.247266 1.148769
1 -3.209458 -1.244823 -0.563462
1 -2.277923 -2.587282 0.119140
6 0.465980 -2.700746 -0.522546
1 1.286561 -2.927282 0.170237
1 -0.352049 -3.393983 -0.304029
1 0.841499 -2.934168 -1.527028
27
1MAD E(RM062X) = -489.924565377
5 1.077847 0.000240 0.411111
8 1.887283 0.000677 -2.167930
6 1.637349 0.000500 -1.059537
6 0.062121 1.255155 0.235837
6 -1.179745 0.744396 0.058744
6 -1.179387 -0.744976 0.058618
6 0.062737 -1.255134 0.235587
6 2.198164 0.000257 1.566655
1 1.685914 -0.000045 2.534978
1 2.840921 -0.885838 1.534407
1 2.840629 0.886575 1.534791
6 0.462788 -2.699973 0.286232
1 1.003934 -2.920193 1.214774
1 -0.390118 -3.382898 0.227313
1 1.143872 -2.956308 -0.535721
6 -2.467955 -1.501304 -0.103997
1 -2.949710 -1.255193 -1.058107
1 -2.315842 -2.582067 -0.074619
1 -3.182031 -1.239235 0.685772
6 -2.468666 1.500123 -0.103878
1 -2.950041 1.254133 -1.058212
1 -3.182818 1.237386 0.685599
1 -2.317113 2.580953 -0.074090
6 0.461332 2.700235 0.286447
1 1.139442 2.957859 -0.537567
1 -0.392311 3.382522 0.230940
1 1.005350 2.920059 1.213386
27
TS[1MAD,2M] E(RM062X) = -489.898863298
5 0.296317 -1.302150 0.247014
8 2.077965 -0.904149 -1.688811
6 1.260141 -0.838085 -0.816942
6 1.103509 0.556336 0.010284
6 -0.082769 1.213723 0.102210
6 -1.351546 0.459837 -0.081345
6 -1.198945 -0.877495 -0.012336
6 0.824364 -2.011942 1.560101
1 0.384830 -1.564572 2.457164
1 0.493343 -3.058806 1.526619
1 1.912948 -2.015911 1.659858
6 -2.255631 -1.923699 -0.216014
1 -2.307815 -2.590316 0.653141
1 -3.250817 -1.505189 -0.383243
1 -2.005400 -2.556358 -1.076663
6 -2.626098 1.218221 -0.334590
1 -2.553633 1.820950 -1.247755
1 -3.478337 0.545974 -0.445780
1 -2.850580 1.907818 0.486901
6 -0.170465 2.675820 0.442158
1 -0.725759 3.208311 -0.338075
1 -0.722949 2.820517 1.378149
1 0.810012 3.142188 0.539388
6 2.455394 1.145911 0.323092
1 2.837526 1.741164 -0.513692
1 2.418934 1.784316 1.209103
1 3.184668 0.352087 0.510592
27
2M E(RM062X) = -489.926156964
5 -1.196261 -1.036192 0.007853
8 0.596984 -2.739831 -0.042141
6 0.336536 -1.539533 -0.015394
6 1.428004 -0.530727 0.001025
6 1.096291 0.783122 0.012147
6 -0.317517 1.293113 -0.018273
6 -1.415519 0.486441 0.012577
6 -2.343212 -2.100788 0.014643
1 -2.932256 -2.008699 0.938110
1 -3.052081 -1.922073 -0.804277
1 -1.968053 -3.124231 -0.055481
6 -2.816191 1.063156 0.028632
1 -2.954181 1.791003 0.835754
1 -3.059904 1.575140 -0.910611
1 -3.558728 0.273896 0.167844
6 -0.468088 2.794555 -0.062893
1 0.219960 3.248162 -0.781107
1 -1.481555 3.088191 -0.333804
1 -0.243462 3.236224 0.916397
6 2.187427 1.825251 0.046748
1 2.281540 2.328315 -0.923402
1 1.978455 2.600801 0.789110
1 3.154361 1.383301 0.285130
6 2.844528 -1.044452 0.005737
1 3.426976 -0.635736 -0.825981
1 3.367869 -0.783821 0.932350
1 2.832942 -2.131685 -0.081858
54
3M E(RM062X) = -979.948945194
6 2.406150 -1.506201 -0.146924
6 3.570158 -0.768183 -0.002978
6 3.643548 0.687297 0.160090
6 2.523386 1.452133 0.035008
5 1.177737 0.759773 -0.424655
6 1.165785 -0.799723 -0.130996
8 0.072696 -1.483598 -0.037004
6 -2.406170 1.506223 0.146401
6 -3.570201 0.768130 0.002838
6 -3.643610 -0.687414 -0.159593
6 -2.523379 -1.452210 -0.034658
5 -1.177673 -0.759715 0.424587

6	-1.165820	0.799763	0.130728
8	-0.072712	1.483644	0.036743
6	-4.878181	1.515936	-0.052238
1	-4.798457	2.519154	0.364510
1	-5.215390	1.610221	-1.092826
1	-5.662504	0.978814	0.486609
6	-4.999023	-1.293380	-0.457941
1	-5.647847	-1.306150	0.426864
1	-5.531539	-0.740241	-1.237964
1	-4.897800	-2.324033	-0.801343
6	-2.564201	-2.955375	-0.146391
1	-3.302981	-3.399560	0.530964
1	-2.835829	-3.268086	-1.162537
1	-1.587157	-3.389828	0.080096
6	-2.399142	3.017218	0.183635
1	-1.371450	3.381814	0.167536
1	-2.926219	3.452133	-0.671663
1	-2.876661	3.399319	1.092695
6	2.564188	2.955257	0.147157
1	3.304756	3.399642	-0.528084
1	1.587745	3.389893	-0.081590
1	2.833179	3.267533	1.164164
6	4.998822	1.293198	0.459198
1	4.897296	2.323335	0.804085
1	5.531493	0.739152	1.238467
1	5.647637	1.307359	-0.425598
6	4.878144	-1.516020	0.051703
1	5.662603	-0.978269	-0.486319
1	5.215044	-1.611574	1.092268
1	4.798522	-2.518768	-0.366219
6	2.399118	-3.017169	-0.184796
1	2.926333	-3.452465	0.670223
1	1.371430	-3.381781	-0.168699
1	2.876513	-3.398848	-1.094102
6	1.154285	0.816498	-2.080492
1	1.115121	1.868297	-2.388703
1	2.032231	0.353730	-2.540227
1	0.254228	0.318338	-2.464357
6	-1.153897	-0.816119	2.080430
1	-2.031758	-0.353209	2.540182
1	-1.114725	-1.867848	2.388881
1	-0.253767	-0.317879	2.464022

27

TS[3,3MA] E(RM062X) = -979.930699977

6	2.420318	-1.436383	-0.160647
6	3.580468	-0.737008	0.046020
6	3.633193	0.722729	0.160971
6	2.508422	1.497907	0.081980
5	1.166734	0.791609	-0.179475
6	1.150439	-0.719257	-0.238132
8	0.024204	-1.448554	-0.202986
6	-2.413224	1.524881	-0.019347
6	-3.590466	0.773004	-0.047525
6	-3.670047	-0.678602	-0.060753
6	-2.533831	-1.430350	0.064696
5	-1.151039	-0.726785	0.366891
6	-1.190126	0.826103	0.029955
8	-0.078393	1.530506	-0.045630
6	-4.896628	1.521108	-0.116964
1	-4.804183	2.551531	0.223360
1	-5.257811	1.542158	-1.153973
1	-5.668630	1.027396	0.477211
6	-5.037084	-1.311834	-0.220030
1	-5.634771	-1.233896	0.696776
1	-5.614507	-0.840580	-1.021485
1	-4.949876	-2.372140	-0.461037
6	-2.576726	-2.935515	0.082623
1	-3.264022	-3.318950	0.846184
1	-2.924380	-3.328435	-0.881212
1	-1.583149	-3.349187	0.270429
6	-2.422249	3.033518	-0.117408
1	-1.402056	3.407055	-0.209206
1	-2.990780	3.380742	-0.986055
1	-2.867032	3.493871	0.771847
6	2.551357	3.000871	0.246535
1	3.090094	3.484649	-0.578174
1	1.540892	3.417258	0.266374
1	3.052679	3.300266	1.173820
6	4.994331	1.345300	0.388000
1	4.963523	2.428626	0.266759
1	5.368857	1.135356	1.397630
1	5.738038	0.953322	-0.313010
6	4.888806	-1.484549	0.169405
1	5.522631	-1.326393	-0.712314
1	5.461268	-1.138158	1.035265
1	4.737665	-2.558105	0.280884
6	2.372910	-2.940977	-0.290671
1	2.603111	-3.441146	0.657331
1	1.374633	-3.256630	-0.595784
1	3.091841	-3.301559	-1.032685
6	1.262364	0.132676	-1.972076
1	0.723034	1.035307	-2.274529
1	2.297382	0.160540	-2.304414
1	0.731291	-0.728120	-2.378110
6	-1.034934	-0.698722	2.031585
1	-1.869103	-0.195367	2.528976
1	-0.993496	-1.736503	2.383451
1	-0.101881	-0.202065	2.328235

54

3MA E(RM062X) = -979.951848757

6	2.442165	-1.375526	-0.236099
6	3.547776	-0.686200	0.128533
6	3.570757	0.797803	0.224542
6	2.460143	1.577898	0.071780
5	1.153828	0.844242	-0.209597
6	1.169062	-0.668377	-0.644632
8	0.027279	-1.436367	-0.297120
6	-2.398522	1.518404	-0.148955
6	-3.583102	0.763378	-0.041720
6	-3.653752	-0.669399	0.089500
6	-2.498020	-1.413623	0.171677
5	-1.094744	-0.703531	0.279128
6	-1.189558	0.826259	-0.095823
8	-0.057110	1.547175	-0.183849
6	-4.893218	1.505442	-0.088156
1	-4.777745	2.572322	0.094751
1	-5.352884	1.382288	-1.077784
1	-5.601163	1.103049	0.640303
6	-5.023715	-1.315251	0.121437
1	-5.538676	-1.130268	1.072438
1	-5.673127	-0.937099	-0.674231
1	-4.950961	-2.396256	-0.002964
6	-2.533117	-2.909974	0.315339
1	-3.116008	-3.224347	1.189738
1	-3.002915	-3.374217	-0.560839
1	-1.521560	-3.311258	0.405785
6	-2.422533	3.016552	-0.349860
1	-1.410730	3.388693	-0.512373
1	-3.030310	3.297921	-1.215484
1	-2.832603	3.535862	0.523324
6	2.490042	3.079389	0.261189
1	3.090851	3.576535	-0.510377
1	1.479545	3.492133	0.203121
1	2.910749	3.368328	1.231113
6	4.903850	1.426481	0.553066
1	4.904618	2.498135	0.352755
1	5.148600	1.284622	1.613444
1	5.714698	0.970133	-0.021677
6	4.832143	-1.415414	0.458091
1	5.580013	-1.303737	-0.336941
1	5.285449	-1.032321	1.377587
1	4.660561	-2.482900	0.598826
6	2.420122	-2.879962	-0.368772
1	2.535885	-3.366595	0.606807
1	1.465322	-3.206370	-0.782519
1	3.228068	-3.245466	-1.011215
6	1.202600	-0.569378	-2.203138
1	0.290311	-0.079941	-2.562835
1	2.073044	-0.012677	-2.564736
1	1.230760	-1.582823	-2.617843
6	-0.904522	-0.561885	1.957342
1	-1.690815	-0.010789	2.480382

1 -0.846039 -1.577349 2.364656
1 0.058688 -0.065326 2.144838
54
TS[3MA,1MTB] E(RM062X) = -979.946603316
6 2.485475 -1.341388 -0.132216
6 3.615724 -0.634223 0.091622
6 3.640014 0.854848 0.132600
6 2.516083 1.625079 0.068111
5 1.188686 0.881760 -0.069345
6 1.178210 -0.651602 -0.446246
8 0.092024 -1.397008 0.112200
6 -2.387427 1.555247 -0.045236
6 -3.563354 0.831479 -0.123898
6 -3.633242 -0.615919 -0.006758
6 -2.501591 -1.376461 0.148671
5 -1.121432 -0.675701 0.281220
6 -1.159929 0.835594 0.088585
8 -0.011188 1.571692 0.060194
6 -4.865370 1.572452 -0.314250
1 -4.710773 2.601075 -0.638232
1 -5.494843 1.075775 -1.057657
1 -5.440119 1.599308 0.620367
6 -5.006111 -1.253794 -0.073462
1 -5.720573 -0.740524 0.577874
1 -5.420939 -1.221775 -1.088581
1 -4.973721 -2.298934 0.235812
6 -2.554178 -2.881429 0.245292
1 -3.002221 -3.206273 1.193822
1 -3.150446 -3.328204 -0.557809
1 -1.546281 -3.300234 0.193189
6 -2.353987 3.065747 -0.116306
1 -1.348551 3.433335 0.089904
1 -2.646082 3.433937 -1.106111
1 -3.035884 3.513746 0.613013
6 2.553180 3.132275 0.202340
1 3.072675 3.605133 -0.640017
1 1.538421 3.537707 0.228332
1 3.063450 3.455853 1.116611
6 4.996733 1.496534 0.301145
1 4.967496 2.563582 0.080019
1 5.358433 1.378354 1.330299
1 5.742315 1.032966 -0.351065
6 4.933103 -1.346440 0.307806
1 5.591877 -1.252509 -0.564405
1 5.477008 -0.934220 1.163101
1 4.787330 -2.410553 0.494266
6 2.461629 -2.850707 -0.206439
1 2.720383 -3.301542 0.758241
1 1.463092 -3.200033 -0.471751
1 3.174687 -3.233007 -0.944541
6 1.024400 -0.663515 -1.994476
1 0.072511 -0.202454 -2.282050
1 1.840130 -0.122735 -2.484465
1 1.022776 -1.700252 -2.347663
6 -1.218956 -0.021029 2.014783
1 -2.223521 0.231119 2.347641
1 -0.900174 -0.984008 2.423877
1 -0.495323 0.742187 2.305543
54
1MTB E(RM062X) = -979.987919686
6 -2.422476 -1.447302 0.025283
6 -3.556347 -0.739083 -0.169659
6 -3.621766 0.743421 0.001270
6 -2.518438 1.518597 0.180067
5 -1.155078 0.795441 0.162219
6 -1.168497 -0.750157 0.496865
8 0.003865 -1.477019 0.072091
6 2.422304 1.447168 -0.024326
6 3.555947 0.738743 0.171199
6 3.621518 -0.743597 -0.001199
6 2.518336 -1.518564 -0.181761
5 1.155003 -0.795325 -0.163797
6 1.168764 0.750423 -0.497702
8 -0.003995 1.477162 -0.073858
6 4.835880 1.440369 0.568781
1 4.640595 2.443500 0.949710
1 5.362565 0.890305 1.354245
1 5.530232 1.534614 -0.275666
6 4.995502 -1.367429 0.083405
1 5.736853 -0.779228 -0.465372
1 5.341801 -1.425247 1.123147
1 4.999172 -2.379331 -0.323485
6 2.583888 -3.028399 -0.249114
1 3.062954 -3.373766 -1.173937
1 3.147879 -3.461571 0.584864
1 1.576524 -3.452556 -0.224185
6 2.356187 2.953178 0.074161
1 1.434888 3.324638 -0.378270
1 2.355922 3.284511 1.119797
1 3.203979 3.433736 -0.421954
6 -2.583920 3.028515 0.245659
1 -3.060387 3.375054 1.171393
1 -1.576633 3.452649 0.217426
1 -3.150211 3.460612 -0.587302
6 -4.995834 1.367160 -0.082770
1 -4.999199 2.379390 0.323292
1 -5.342971 1.424077 -1.122284
1 -5.736726 0.779417 0.467107
6 -4.836707 -1.441134 -0.565093
1 -5.530338 -1.533956 0.280100
1 -5.363978 -0.892178 -1.350947
1 -4.641902 -2.444891 -0.944610
6 -2.356461 -2.953409 -0.071996
1 -2.358731 -3.285674 -1.117328
1 -1.434052 -3.324383 0.378549
1 -3.203038 -3.433591 0.426570
6 -1.161205 -0.814950 2.047686
1 -0.265640 -0.322837 2.444965
1 -2.047334 -0.327426 2.462130
1 -1.146002 -1.863192 2.364884
6 1.163167 0.816107 -2.048498
1 2.049753 0.328818 -2.462229
1 0.268028 0.324296 -2.447088
1 1.148352 1.864551 -2.365047
27
TS[1MAD,4M] E(RM062X) = -489.881035624
5 -0.096003 1.371698 -0.233119
8 -1.245136 -0.153645 2.211720
6 -1.185522 -0.053588 1.061720
6 1.245402 0.769561 -0.139406
6 1.148107 -0.668300 -0.184199
6 -0.143816 -1.149292 -0.316260
6 -1.089339 0.041661 -0.333262
6 -0.680396 2.843543 -0.215288
1 0.115768 3.587622 -0.104503
1 -1.219991 3.079612 -1.141815
1 -1.389462 3.007007 0.606372
6 2.588004 1.442735 -0.040842
1 3.241940 1.201284 -0.890159
1 2.478332 2.531053 -0.012887
1 3.136145 1.146256 0.864176
6 2.365799 -1.538888 -0.066773
1 3.095094 -1.275193 -0.840732
1 2.858872 -1.373103 0.898245
1 2.141258 -2.603027 -0.156501
6 -0.658371 -2.558597 -0.336898
1 0.165975 -3.275042 -0.347615
1 -1.275283 -2.795670 0.540502
1 -1.272503 -2.752950 -1.224687
6 -2.356278 0.074186 -1.172965
1 -2.053699 0.129125 -2.220779
1 -2.966561 -0.821523 -1.029582
1 -2.953907 0.956900 -0.935133
27
4M E(RM062X) = -489.908928516
5 -0.499622 1.339842 0.120842
8 1.799312 -0.270875 -2.005692
6 1.239014 -0.167048 -0.951409
6 -1.521741 0.183171 0.103307
6 -0.842659 -0.995482 0.114785
6 0.645609 -0.856009 0.217620
6 0.936434 0.689388 0.213239

6 -0.737237 2.886610 -0.007390
1 -0.264597 3.262027 -0.924825
1 -1.791877 3.176673 -0.028290
1 -0.250553 3.421184 0.818663
6 -3.018799 0.286839 -0.038181
1 -3.545876 -0.406235 0.626263
1 -3.363758 1.297650 0.197342
1 -3.344357 0.064559 -1.061884
6 -1.415823 -2.369788 -0.048293
1 -2.494909 -2.343571 -0.211692
1 -0.946353 -2.877245 -0.899499
1 -1.212013 -2.983943 0.837294
6 1.457620 -1.869375 0.991485
1 1.136454 -1.898436 2.037945
1 1.337693 -2.870997 0.567145
1 2.522596 -1.623058 0.966240
6 2.108197 1.332357 0.932547
1 3.034585 0.760625 0.817944
1 2.285810 2.334509 0.530598
1 1.897087 1.430075 2.001824
27
TS[4,5M] E(RM062X) = -489.835496494
5 -0.025463 1.308016 -0.306980
8 -2.939254 -0.151084 0.882958
6 -1.956391 -0.174006 0.275680
6 1.384688 0.819692 -0.086544
6 1.415153 -0.580909 0.029202
6 0.153259 -1.181944 -0.102060
6 -0.799582 -0.140288 -0.396106
6 -0.703722 2.726429 -0.099769
1 -0.658086 3.037094 0.950139
1 -0.182780 3.497954 -0.681069
1 -1.757887 2.752909 -0.401036
6 2.627478 1.656762 0.058220
1 3.368567 1.433695 -0.722432
1 2.398730 2.725021 -0.004729
1 3.132127 1.485011 1.018935
6 2.684327 -1.366858 0.218362
1 3.368400 -1.215072 -0.624953
1 3.215117 -1.035168 1.118341
1 2.496365 -2.439347 0.312603
6 -0.147369 -2.653648 -0.156520
1 0.316423 -3.140169 -1.024975
1 0.215166 -3.178411 0.734601
1 -1.224771 -2.831849 -0.223155
6 -0.720581 0.614392 -2.073196
1 -1.733680 0.350652 -2.375384
1 -0.544870 1.649476 -2.376941
1 0.011718 -0.053206 -2.521803
27
5M E(RM062X) = -489.910082789
5 0.209100 1.224896 0.000023
8 3.480768 -0.418429 -0.000223
6 2.323237 -0.407378 -0.000137
6 -1.261667 0.587978 -0.000325
6 -1.272404 -0.791867 -0.000122
6 0.062097 -1.294740 0.000007
6 1.006788 -0.259732 -0.000096
6 0.510426 2.077198 -1.355908
1 0.343418 1.506913 -2.277877
1 -0.132742 2.966448 -1.400137
1 1.548263 2.435181 -1.372354
6 -2.528519 1.379130 -0.000588
1 -3.140862 1.131012 0.876884
1 -2.340485 2.455512 -0.000100
1 -3.139853 1.131714 -0.878973
6 -2.504200 -1.655507 -0.000084
1 -3.123444 -1.451943 0.880977
1 -3.123698 -1.451607 -0.880883
1 -2.265599 -2.721525 -0.000329
6 0.385041 -2.755413 0.000084
1 -0.056148 -3.237335 0.879492
1 -0.054092 -3.236788 -0.880678
1 1.460147 -2.942525 0.001256
6 0.509147 2.075982 1.357105
1 1.546616 2.434955 1.374563
1 -0.134936 2.964546 1.401895
1 0.342088 1.504490 2.278319
27
TS[5,1MKD] E(RM062X) = -489.892271253
5 -0.123486 -1.197759 -0.116400
8 -3.559756 -0.049142 -0.048370
6 -2.399617 0.058917 -0.065109
6 1.228198 -0.499426 -0.233534
6 1.076350 0.944201 -0.151725
6 -0.250389 1.285744 -0.093997
6 -1.084538 0.094971 -0.086346
6 -0.559748 -2.645213 -0.615899
1 -0.857703 -2.629481 -1.670425
1 0.252367 -3.375392 -0.517582
1 -1.412995 -3.033361 -0.045320
6 2.582732 -1.106444 -0.422637
1 3.295751 -0.796802 0.351442
1 2.540057 -2.197752 -0.452181
1 2.983130 -0.755480 -1.381960
6 2.254623 1.873049 -0.084555
1 2.830920 1.709694 0.835066
1 2.941286 1.707947 -0.922834
1 1.955860 2.923100 -0.103455
6 -0.829586 2.662526 0.035062
1 -1.262950 2.805751 1.031482
1 -0.082574 3.441615 -0.124449
1 -1.635502 2.809121 -0.692078
6 0.591621 -1.329355 1.545978
1 -0.337991 -1.733456 1.958340
1 1.367651 -2.090771 1.630341
1 0.860285 -0.436620 2.109138
27
1MKD E(RM062X) = -489.937338436
5 -0.287064 -1.175460 -0.008419
8 -3.648368 -0.209382 -0.040190
6 -2.499191 -0.031252 -0.030276
6 1.197669 -0.583250 0.003703
6 0.980175 0.927668 -0.000437
6 -0.319772 1.281081 -0.012840
6 -1.183150 0.072466 -0.018702
6 -0.692145 -2.690655 -0.010400
1 -0.259797 -3.194799 -0.884337
1 -0.267927 -3.196120 0.866664
1 -1.770992 -2.872441 -0.015827
6 1.973688 -1.041988 -1.244593
1 2.986376 -0.619898 -1.256146
1 2.071236 -2.133372 -1.259130
1 1.469754 -0.732777 -2.167266
6 2.152502 1.862416 0.009410
1 2.776343 1.701628 0.897174
1 2.796636 1.694717 -0.862425
1 1.851496 2.912199 0.001873
6 -0.930815 2.649449 -0.020502
1 -1.574977 2.789641 0.855714
1 -0.178049 3.439502 -0.016523
1 -1.561506 2.785682 -0.907068
6 1.953541 -1.038164 1.265557
1 1.435018 -0.726019 2.179107
1 2.050772 -2.129495 1.285089
1 2.965945 -0.616044 1.291842
124
TS[2aA,3a_cis] E(RM062X) = -2896.505445
6 2.904562 1.086432 -0.476883
6 3.837945 0.296735 0.140367
6 3.553567 -1.038120 0.756363
6 2.290771 -1.526912 0.862914
6 3.169863 2.388773 -1.143855
6 4.182670 2.568855 -2.092270
6 4.373571 3.809447 -2.693786
6 3.554192 4.886499 -2.358134
6 2.535738 4.713557 -1.422579
6 2.341884 3.472122 -0.824121
6 5.248487 0.786241 0.187905
6 6.274951 0.100846 -0.470154
6 7.579669 0.582039 -0.430323
6 7.876542 1.742853 0.283046

6	6.860169	2.426360	0.946898
6	5.551230	1.954754	0.892087
6	4.719171	-1.822623	1.275839
6	5.045669	-3.052778	0.698648
6	6.114205	-3.804740	1.182194
6	6.868481	-3.336347	2.255515
6	6.546350	-2.113576	2.843740
6	5.481109	-1.362959	2.355902
6	1.971361	-2.810989	1.535253
6	1.208833	-3.772379	0.858179
6	0.863739	-4.970694	1.479270
6	1.249115	-5.214357	2.795771
6	1.984734	-4.252533	3.487620
6	2.345404	-3.063242	2.862220
6	0.490775	0.067802	1.870424
6	1.206292	1.018565	2.615416
6	0.740575	1.482395	3.841113
6	-0.463480	1.002017	4.362346
6	-1.190182	0.058083	3.645068
6	-0.715621	-0.402614	2.411202
1	5.234950	-0.407623	2.812684
1	7.125815	-1.744379	3.684388
1	7.701731	-3.920523	2.633479
1	6.356612	-4.756767	0.719967
1	4.451703	-3.418871	-0.134570
1	7.084322	3.330535	1.504021
1	8.896290	2.112741	0.320639
1	8.366672	0.047240	-0.952600
1	6.047066	-0.811329	-1.014293
1	4.752851	2.494785	1.394534
1	0.895185	-3.576043	-0.163235
1	0.287065	-5.712520	0.934949
1	0.973780	-6.144934	3.282337
1	2.279091	-4.429810	4.517635
1	2.920049	-2.315217	3.400881
1	-1.275411	-1.174529	1.883609
1	-2.119999	-0.331319	4.048525
1	-0.826352	1.359363	5.321069
1	2.152649	1.395849	2.231596
1	1.315192	2.218895	4.395486
1	4.823625	1.733072	-2.356164
1	5.162499	3.934312	-3.429085
1	3.706443	5.853645	-2.827152
1	1.885475	5.542198	-1.157742
1	1.541045	3.337925	-0.099041
5	1.066911	-0.565804	0.494150
6	1.539674	0.556085	-0.557103
8	0.746535	0.909629	-1.441011
6	-1.491968	-0.854444	-2.109875
6	-2.843305	-0.741146	-2.207483
6	-3.700279	-0.146638	-1.121627
6	-3.179865	0.402659	0.009195
6	-0.655704	-1.672772	-3.032262
6	-0.911013	-3.040098	-3.188102
6	-0.121802	-3.813498	-4.033503
6	0.930588	-3.228083	-4.736035
6	1.192525	-1.868529	-4.583017
6	0.408816	-1.094027	-3.730558
6	-3.525866	-1.302405	-3.408243
6	-4.472846	-2.326545	-3.297791
6	-5.087112	-2.840896	-4.434656
6	-4.773595	-2.328377	-5.693027
6	-3.833650	-1.306915	-5.810331
6	-3.207108	-0.802121	-4.674345
6	-5.175686	-0.116980	-1.351468
6	-6.040740	-0.817603	-0.506442
6	-7.416738	-0.779586	-0.717917
6	-7.942133	-0.029454	-1.767598
6	-7.085757	0.681012	-2.607772
6	-5.710363	0.632797	-2.404442
6	-4.039522	1.033207	1.049486
6	-4.563124	2.317577	0.864543
6	-5.339701	2.911327	1.855085
6	-5.602693	2.229999	3.042882
6	-5.084876	0.951249	3.234623
6	-4.303683	0.358933	2.244091
6	-1.302689	2.270367	0.090951
6	-1.295587	2.921008	1.331764
6	-1.080134	4.294941	1.414536
6	-0.921106	5.050854	0.253646
6	-0.963641	4.423850	-0.990793
6	-1.134672	3.044089	-1.068780
1	-5.042581	1.176754	-3.067230
1	-7.489063	1.270645	-3.424936
1	-9.014697	0.002190	-1.930859
1	-8.077756	-1.335515	-0.060575
1	-5.629586	-1.401394	0.311936
1	-3.584742	-0.903656	-6.786714
1	-5.260292	-2.724833	-6.578422
1	-5.814226	-3.640781	-4.337761
1	-4.726086	-2.721257	-2.318045
1	-2.467321	-0.011278	-4.762094
1	-4.351312	2.848570	-0.059825
1	-5.740247	3.908223	1.699230
1	-6.208962	2.693904	3.814475
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1	-1.132712	2.562201	-2.043204
1	-0.841202	5.005105	-1.899827
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1	-0.328572	-4.873370	-4.143733
1	1.544632	-3.830376	-5.398179
1	2.010349	-1.407152	-5.127620
1	0.617706	-0.036852	-3.605522
5	-1.666173	0.761541	-0.089279
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6	2.289666	-1.545058	0.302715
6	2.201721	2.911224	0.156547
6	2.314673	3.525330	-1.094122
6	2.226414	4.910368	-1.211783
6	2.022954	5.697225	-0.079608
6	1.895797	5.091919	1.169852
6	1.979518	3.707787	1.284777
6	4.544067	1.381749	-0.593338
6	5.000523	1.226688	-1.906328
6	6.116783	1.929835	-2.347065
6	6.801703	2.774774	-1.474718
6	6.357180	2.925530	-0.162864
6	5.225875	2.241819	0.272665
6	4.592255	-1.489852	-0.655292
6	4.523830	-2.293762	-1.796442
6	5.659036	-2.939715	-2.279944
6	6.879337	-2.792247	-1.624136
6	6.956857	-1.996950	-0.481589
6	5.821706	-1.349905	-0.002678
6	2.307964	-3.029822	0.328657
6	1.279711	-3.762486	-0.279061
6	1.282742	-5.155932	-0.233419
6	2.289567	-5.835000	0.447596
6	3.301205	-5.113494	1.081939
6	3.313000	-3.725233	1.017329
6	1.358211	-1.069600	2.655319
6	1.993403	-0.166429	3.515201
6	2.207480	-0.474176	4.858563
6	1.791236	-1.701341	5.369983
6	1.164567	-2.618602	4.527695
6	0.955891	-2.303910	3.186935
1	5.885844	-0.727354	0.886105
1	7.902905	-1.881069	0.038184
1	7.765037	-3.294913	-1.999811
1	5.589641	-3.558125	-3.169543
1	3.569722	-2.413652	-2.302768
1	6.886652	3.581022	0.521065

1	7.679071	3.314146	-1.817117
1	6.456320	1.812543	-3.371143
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1	0.472739	-3.242390	-0.786536
1	0.483391	-5.705874	-0.720246
1	2.284083	-6.919799	0.490747
1	4.082750	-5.634019	1.626930
1	4.101175	-3.163594	1.510180
1	0.473778	-3.030834	2.535410
1	0.840040	-3.580263	4.915174
1	1.953273	-1.940895	6.416662
1	2.321089	0.801777	3.141031
1	2.692250	0.249504	5.507656
1	2.478829	2.913204	-1.976475
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1	1.957741	6.777157	-0.170997
1	1.725927	5.697703	2.054581
1	1.874381	3.235001	2.258361
5	1.088085	-0.804145	1.068394
6	1.076227	0.755690	0.747294
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6	-3.674919	0.974055	0.376851
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6	-2.527029	-2.758615	0.079598
6	-2.173562	-3.677569	1.073555
6	-2.116855	-5.039094	0.792622
6	-2.404257	-5.498884	-0.491834
6	-2.740849	-4.589366	-1.492734
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6	-4.925023	-1.157501	-0.212091
6	-5.510871	-2.117835	0.618014
6	-6.693097	-2.746953	0.239237
6	-7.285761	-2.440102	-0.983813
6	-6.697506	-1.494297	-1.822533
6	-5.529609	-0.846141	-1.434222
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6	-6.102767	1.477458	0.841025
6	-7.278625	2.170349	0.569453
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6	-6.178404	3.325982	-1.236551
6	-5.001768	2.633913	-0.960115
6	-2.565502	3.113430	1.013632
6	-3.480398	3.696365	1.903304
6	-3.451104	5.061794	2.160785
6	-2.513196	5.874214	1.523220
6	-1.595821	5.306480	0.643011
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6	-1.378228	0.874338	2.935801
6	-1.933602	-0.133475	3.732331
6	-1.996975	-0.006872	5.119488
6	-1.509413	1.141092	5.740230
6	-0.962523	2.161351	4.963526
6	-0.902308	2.026760	3.578509
1	-4.108039	2.817396	-1.550608
1	-6.202304	4.045690	-2.049016
1	-8.238297	3.633908	-0.687564
1	-8.162847	1.988563	1.172528
1	-6.073948	0.753139	1.651090
1	-7.152873	-1.255093	-2.778141
1	-8.203363	-2.936326	-1.283392
1	-7.146852	-3.481386	0.896864
1	-5.036993	-2.364918	1.564093
1	-5.081014	-0.097342	-2.080435
1	-4.211168	3.064161	2.399130
1	-4.161449	5.493506	2.859227
1	-2.494652	6.942135	1.717805
1	-0.853493	5.926546	0.150291
1	-0.866841	3.497050	-0.261468
1	-0.481579	2.833361	2.980623
1	-0.584001	3.062807	5.437149
1	-1.554726	1.239742	6.820693
1	-2.317457	-1.041488	3.270968
1	-2.421169	-0.809499	5.716072
1	-1.942752	-3.318274	2.073641
1	-1.843256	-5.740691	1.574572
1	-2.360270	-6.560967	-0.712964
1	-2.958405	-4.939984	-2.496783
1	-3.069296	-2.519571	-1.988069
5	-1.285169	0.820913	1.308053
6	-1.320898	-0.683715	0.788770
8	-0.259546	-1.398190	0.701937