

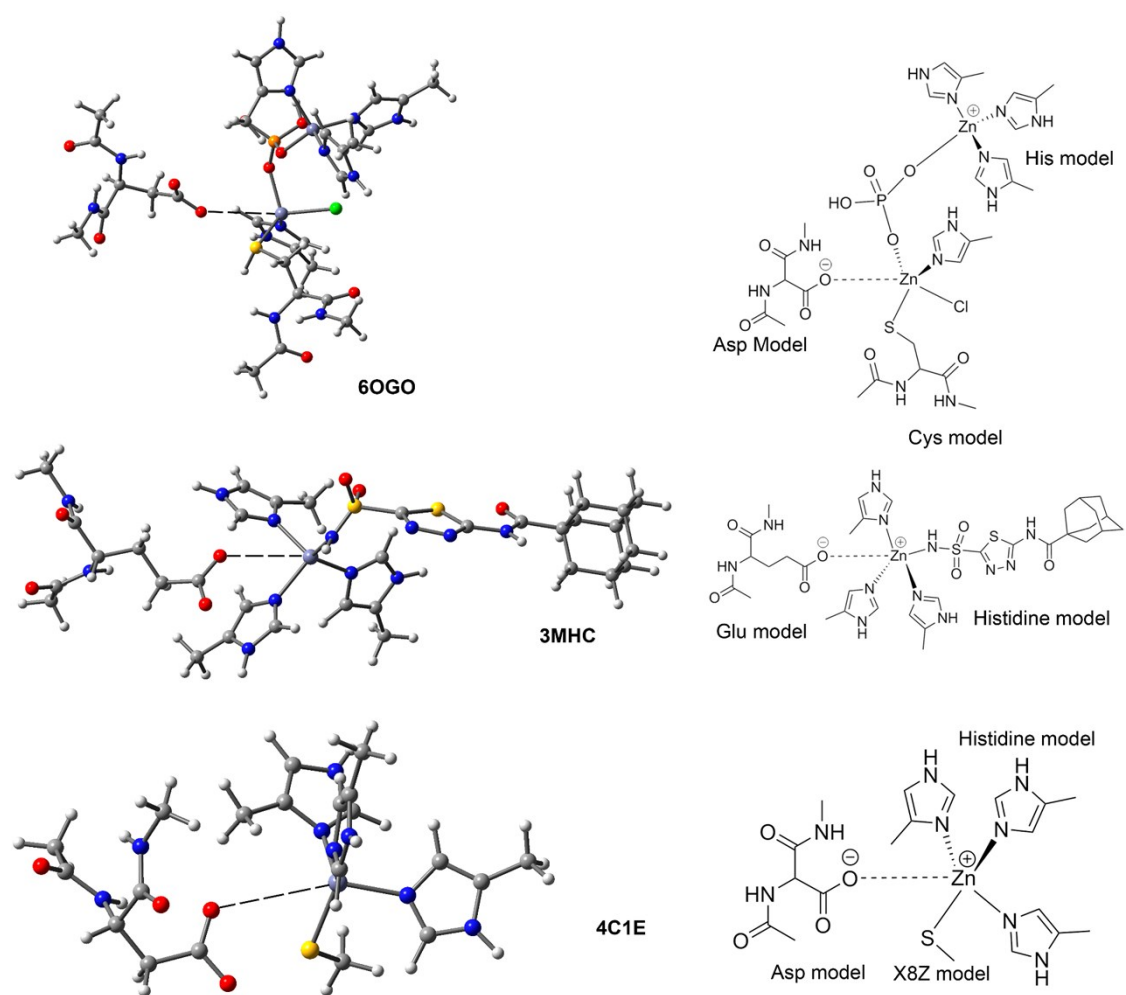
Electronic Supplementary Material for manuscript:

Theoretical study sodium bonding in the active site of three Zn-proteins and several model systems

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Scheme S1. Models of the active sites used in this manuscript (see also Fig 2, main text).

Table S1. Interaction energies (ΔE , kcal/mol), equilibrium distances measured from the Zn to the electron rich atom of A (d, Å) and type of interaction, SpB = Spodium bond, HB = hydrogen bond, A π = anion- π .

Complex	Y	A	ΔE	d	type
27	<i>imi</i>	CO	-2.75	4.920	HB
28	<i>imi</i>	CH ₃ CN	-12.15	4.345	HB
29	<i>imi</i>	HF	-7.24	4.153	HB
30	<i>imi</i>	CH ₃ F	-8.22	4.115	HB
31	<i>imi</i>	(CH ₃) ₃ N	-9.65	4.853	HB
32	<i>imi</i>	BF ₄ ⁻	-86.53	2.294	SpB ^a & HB
33	<i>imi</i>	ClO ₄ ⁻	-85.45	2.342	SpB ^a & HB
34	<i>imi</i>	CN ⁻	-106.85	2.088	covalent
35	<i>imi</i>	OCN ⁻	-88.94	2.117	covalent
36	<i>imi</i>	SCN ⁻	-73.92	3.614	SpB & HB
37	<i>taz</i>	CO	-2.00	3.866	SpB
38	<i>taz</i>	CH ₃ CN	-7.27	3.723	SpB
39	<i>taz</i>	HF	-3.83	3.569	SpB
40	<i>taz</i>	CH ₃ F	-4.59	3.472	SpB
41	<i>taz</i>	(CH ₃) ₃ N	-8.66	3.442	SpB
42	<i>taz</i>	BF ₄ ⁻	-88.21	3.506	SpB & A- π
43	<i>taz</i>	ClO ₄ ⁻	-88.75	3.468	SpB & A- π
44	<i>taz</i>	CN ⁻	-89.55	4.145	A- π
45	<i>taz</i>	OCN ⁻	-84.31	3.524	SpB & A- π
46	<i>taz</i>	SCN ⁻	-80.35	3.908	SpB & A- π

^aStrong covalent character

Table S2. Interaction energies (ΔE , kcal/mol), equilibrium distances measured from the Zn to the electron rich atom of A (d, Å) and type of interaction, SpB = Spodium bond, HB = hydrogen bond, A π = anion- π .

Complex	Y	A	ΔE	d	type
47	<i>imi</i>	CO	-2.71	4.953	HB
48	<i>imi</i>	CH ₃ CN	-11.68	4.372	HB
49	<i>imi</i>	HF	-7.01	4.175	HB
50	<i>imi</i>	CH ₃ F	-7.96	4.138	HB
51	<i>imi</i>	(CH ₃) ₃ N	-9.33	4.803	HB
52	<i>imi</i>	BF ₄ ⁻	-83.61	2.239	SpB ^a & HB
53	<i>imi</i>	ClO ₄ ⁻	-82.45	2.258	SpB ^a & HB
54	<i>imi</i>	CN ⁻	-114.30	1.987	covalent
55	<i>imi</i>	OCN ⁻	-88.11	1.960	covalent
56	<i>imi</i>	SCN ⁻	-70.58	3.800	SpB & HB
57	<i>taz</i>	CO	-2.03	3.801	SpB
58	<i>taz</i>	CH ₃ CN	-6.50	3.688	SpB
59	<i>taz</i>	HF	-3.45	3.543	SpB
60	<i>taz</i>	CH ₃ F	-4.21	3.448	SpB
61	<i>taz</i>	(CH ₃) ₃ N	-27.95	2.062	SpB
62	<i>taz</i>	BF ₄ ⁻	-83.06	3.520	SpB & A- π
63	<i>taz</i>	ClO ₄ ⁻	-83.69	3.483	SpB & A- π
64	<i>taz</i>	CN ⁻	-84.08	4.241	A- π
65	<i>taz</i>	OCN ⁻	-79.10	3.529	SpB & A- π
66	<i>taz</i>	SCN ⁻	-75.59	3.937	SpB & A- π

^aStrong covalent character

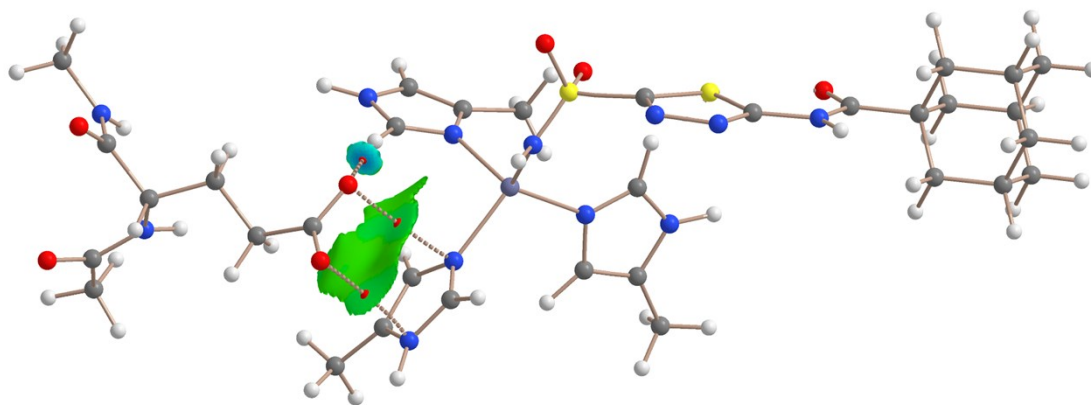


Fig. S1. QTAIM distribution of bond CPs (red spheres) and bond paths of the theoretical model of the active site of **3MHC**. NCIPLOT analysis using RGD isosurface 0.4 and a colour scale $-0.035 \leq (\text{sign}\lambda_2)\rho \leq 0.035$ a.u. Only the intermolecular interactions are represented in the QTAIM and NCIPLOT analyses.

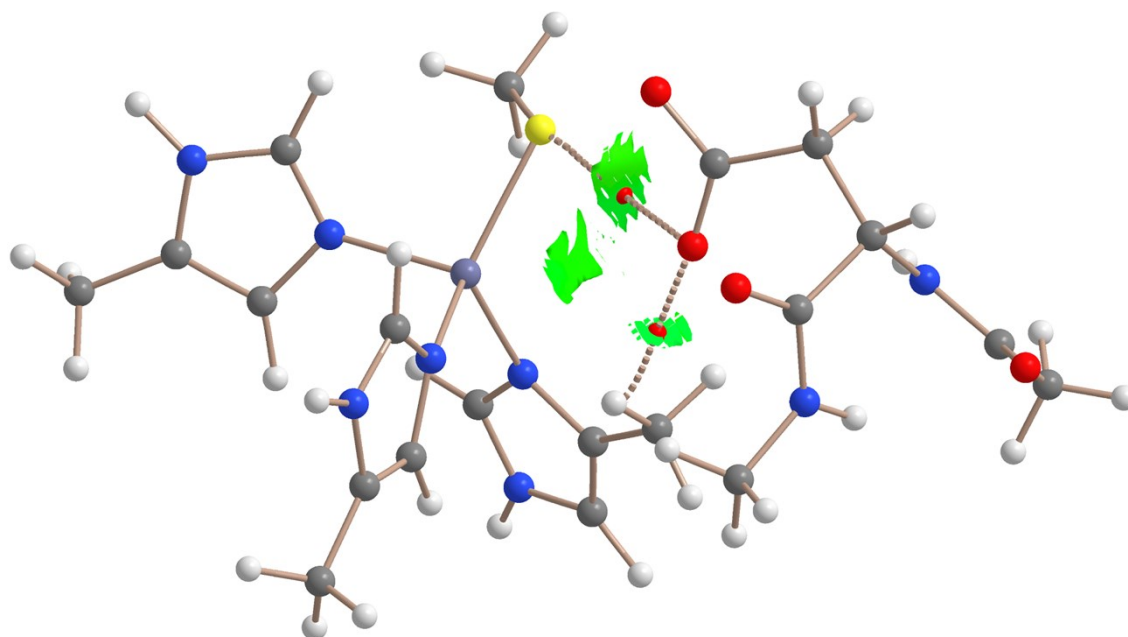


Fig. S2. QTAIM distribution of bond CPs (red spheres) and bond paths of the theoretical model of the active site of **4C1E**. NCIPLOT analysis using RGD isosurface 0.4 and a colour scale $-0.035 \leq (\text{sign}\lambda_2)\rho \leq 0.035$ a.u. Only the intermolecular interactions are represented in the QTAIM and NCIPLOT analyses.

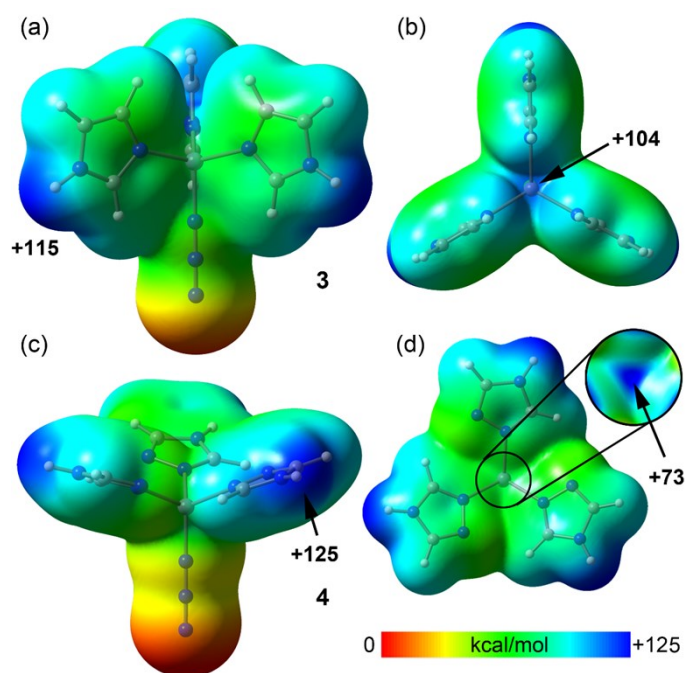


Fig. S3 Top: Perspective (a) and on-top (b) views of the MEP surfaces of **3**. Bottom: Perspective (c) and on-top (d) views of the MEP surfaces of **4**. Isosurface 0.001 a.u. A zoom of the MEP surface around the Zn atom is highlighted in (d) using a maximum of MEP of 70 kcal/mol instead of 120 kcal/mol to build the surface.

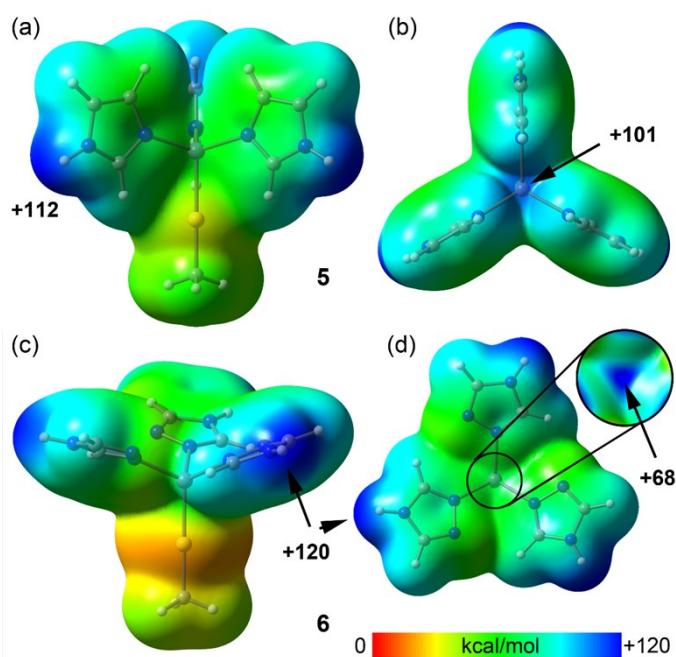


Fig. S4 Top: Perspective (a) and on-top (b) views of the MEP surfaces of **5**. Bottom: Perspective (c) and on-top (d) views of the MEP surfaces of **6**. Isosurface 0.001 a.u. A zoom of the MEP surface around the Zn atom is highlighted in (d) using a maximum of MEP of 70 kcal/mol instead of 120 kcal/mol to build the surface.

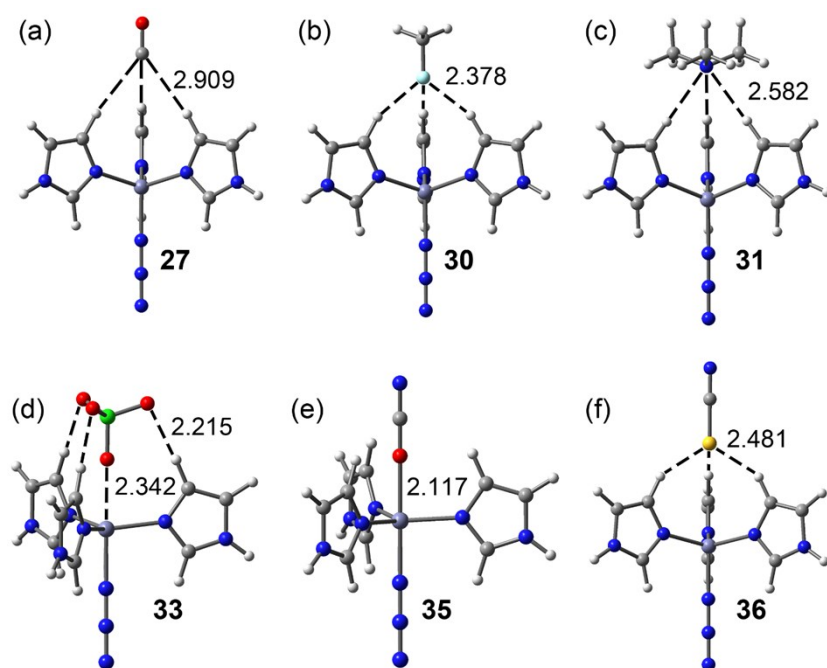


Fig. S5 Optimized geometries of complexes **27** (a), **30** (b), **31** (c), **33** (d), **35** (e) and **36** (f) at the PBE0-D3/def2-TZVP level of theory. Distances in Å.

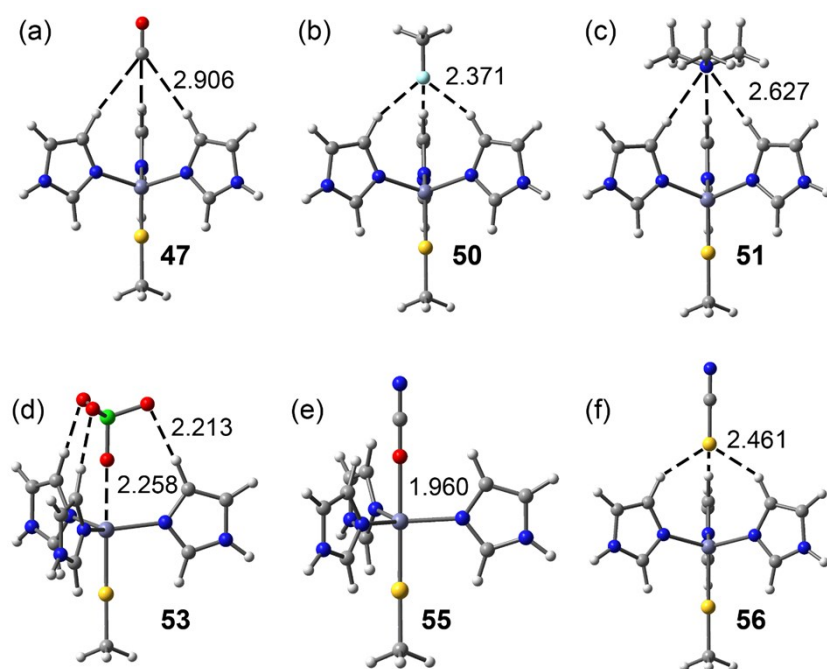


Fig. S6 Optimized geometries of complexes **47** (a), **50** (b), **51** (c), **53** (d), **55** (e) and **56** (f) at the PBE0-D3/def2-TZVP level of theory. Distances in Å.

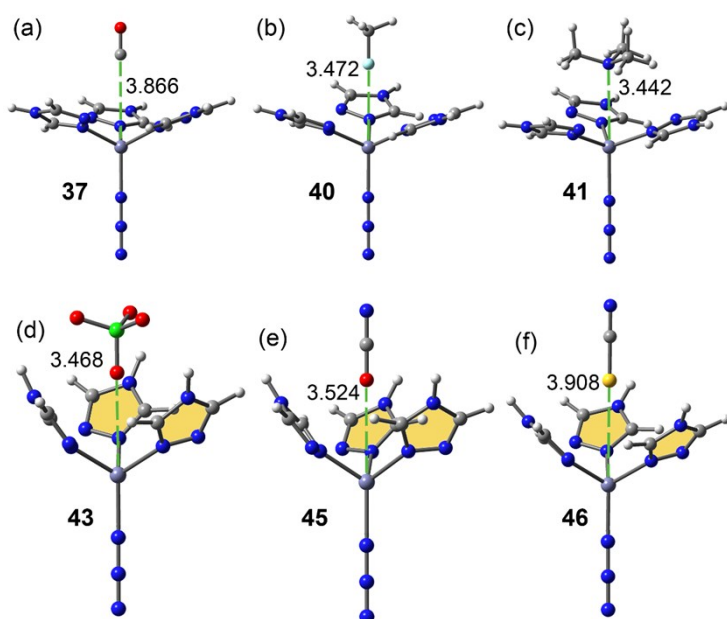


Fig. S7 Optimized geometries of complexes **37** (a), **50** (b), **51** (c), **53** (d), **55** (e) and **56** (f) at the PBE0-D3/def2-TZVP level of theory. Distances in Å

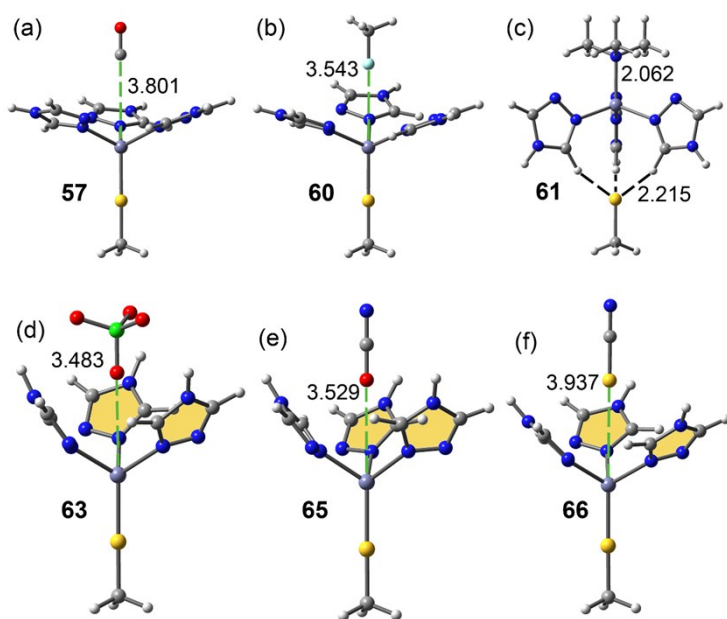


Fig. S8 Optimized geometries of complexes **17** (a), **20** (b), **21** (c), **23** (d), **25** (e) and **26** (f) at the PBE0-D3/def2-TZVP level of theory. Distances in Å

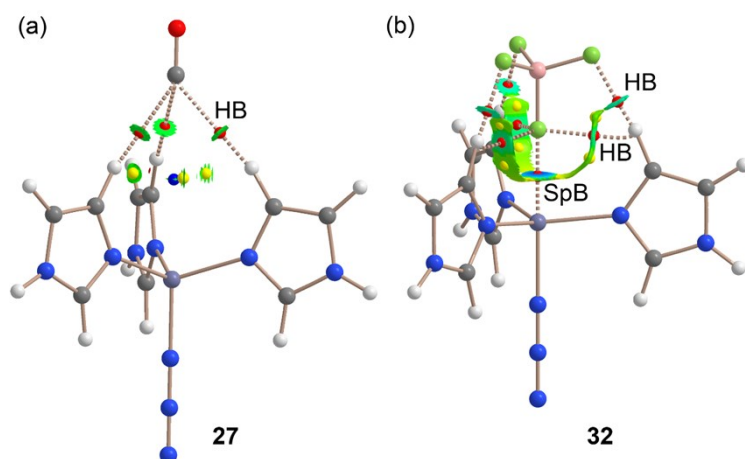


Fig. S9 QTAIM distribution of bond, ring and cage CPs (red, yellow and blue spheres, respectively) and bond paths of adducts **27** (a) and **32** (b). NCIPLOT analysis using RGD isosurface 0.4 and the colour scale $-0.04 \leq (\text{sign}\lambda_2)\rho \leq 0.04$ a.u. at the PBE0-D3/def2-TZVP level of theory. Only the intermolecular interactions are represented in the QTAIM and NCIPLOT analyses.

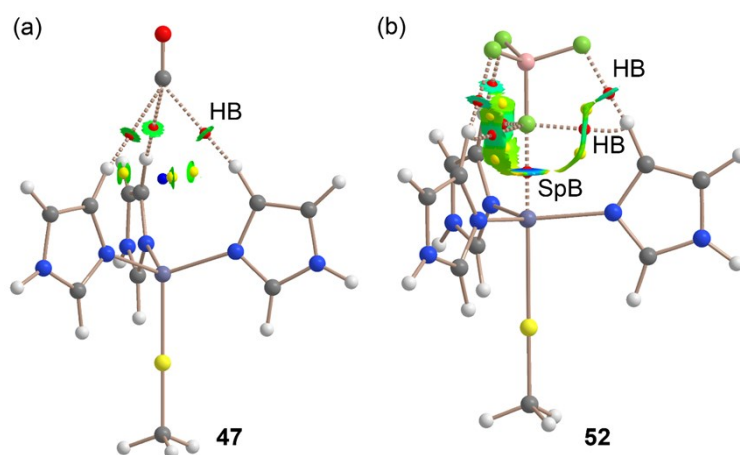


Fig. S10 QTAIM distribution of bond, ring and cage CPs (red, yellow and blue spheres, respectively) and bond paths of adducts **47** (a) and **52** (b). NCIPLOT analysis using RGD isosurface 0.4 and the colour scale $-0.04 \leq (\text{sign}\lambda_2)\rho \leq 0.04$ a.u. at the PBE0-D3/def2-TZVP level of theory. Only the intermolecular interactions are represented in the QTAIM and NCIPLOT analyses.

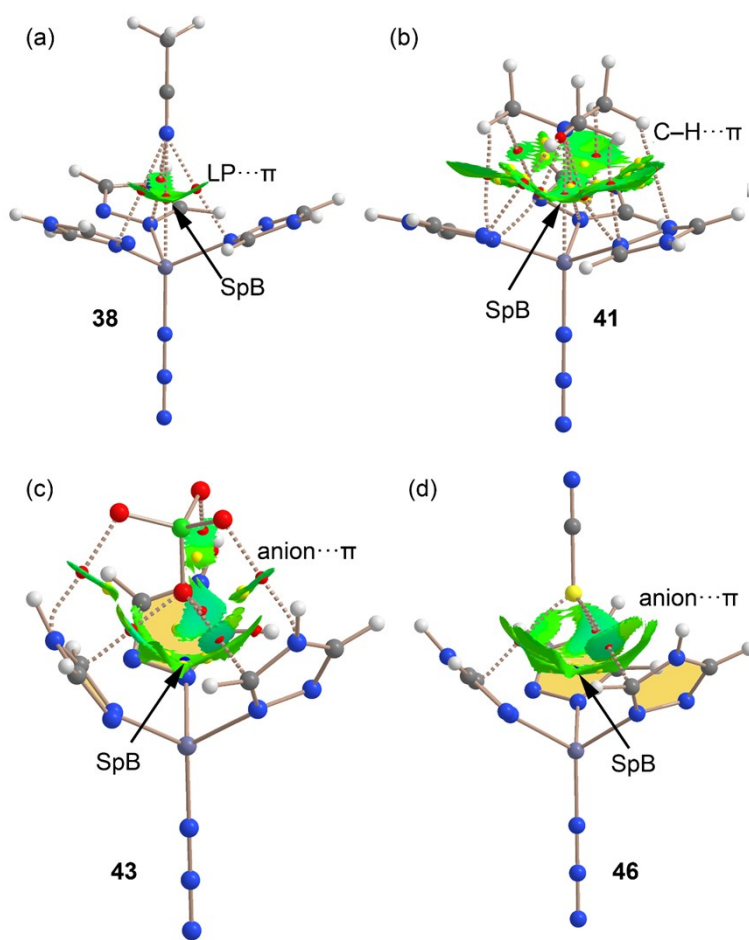


Fig. S11 QTAIM distribution of bond, ring and cage CPs (red, yellow and blue spheres, respectively) and bond paths of adducts **38** (a), **41** (b), **43** (c) and **46** (d). NCIPLOT analysis using RGD isosurface 0.4 and the colour scale $-0.04 \leq (\text{sign}\lambda_2)\rho \leq 0.04$ a.u. at the PBE0-D3/def2-TZVP level of theory. Only the intermolecular interactions are represented in the QTAIM and NCIPLOT analyses.

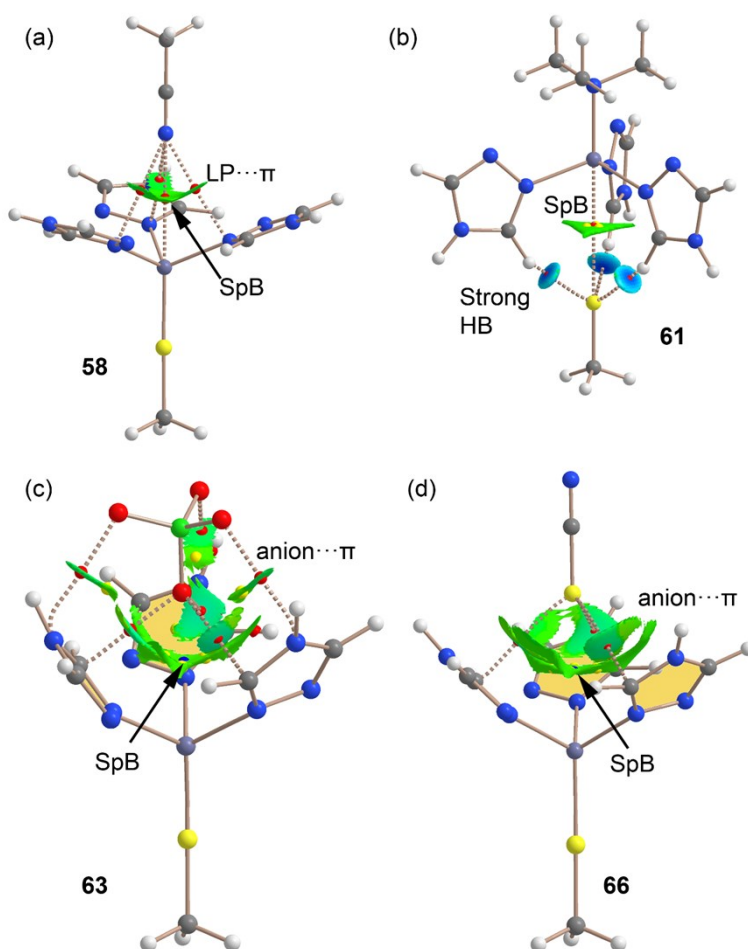


Fig. S12 QTAIM distribution of bond, ring and cage CPs (red, yellow and blue spheres, respectively) and bond paths of adducts **58** (a), **61** (b), **63** (c) and **66** (d). NCIPLOT analysis using RGD isosurface 0.4 and the colour scale $-0.04 \leq (\text{sign}\lambda^2)\rho \leq 0.04$ a.u. at the PBE0-D3/def2-TZVP level of theory. Only the intermolecular interactions are represented in the QTAIM and NCIPLOT analyses.

Cartesian coordinates

7

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1	2.599945	-0.942736	2.362822
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1	4.685375	-1.703076	1.113584
1	4.379274	-1.596379	-1.408258
7	-1.476921	-1.239009	0.407376
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11

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12

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7	1.905951	-0.687626	0.489688
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1	2.389657	-0.886443	2.547622
6	3.861524	-1.386878	-0.298364
1	4.639231	-1.692038	1.659056
1	4.709270	-1.687044	-0.889762
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1	2.215399	-0.774960	-1.635258
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6	2.628849	-0.936037	-0.652509
6	-2.125057	-1.808632	-0.652509
6	-0.503793	2.744669	-0.652509
9	0.000000	0.000000	-1.601911
9	-0.266443	1.296634	-3.470995
9	-0.989697	-0.879064	-3.470995
9	1.256140	-0.417570	-3.470995
5	0.000000	0.000000	-3.057177

13

30	0.000000	0.000000	0.874212
7	-1.313278	-1.549633	0.629437
6	-1.843327	-2.171998	1.661982
1	-1.638088	-1.929036	2.693185
6	-2.663119	-3.140097	-0.134885
1	-3.190839	-3.758176	1.832166
1	-3.248929	-3.830856	-0.716429

7	-0.685383	1.912148	0.629437
6	-0.959342	2.682367	1.661982
6	-1.387845	3.876377	-0.134885
1	-0.851550	2.383144	2.693185
1	-1.693154	4.729083	-0.716429
1	-1.659257	4.642435	1.832166
7	1.998660	-0.362515	0.629437
6	2.802669	-0.510369	1.661982
1	2.489638	-0.454108	2.693185
6	4.050964	-0.736280	-0.134885
1	4.850095	-0.884259	1.832166
1	4.942083	-0.898227	-0.716429
7	-2.665885	-3.141162	1.237926
7	4.053269	-0.738143	1.237926
7	-1.387383	3.879305	1.237926
17	0.000000	0.000000	3.239511
1	-0.804044	2.238579	-1.491780
1	2.340688	-0.422967	-1.491780
1	-1.536644	-1.815611	-1.491780
6	2.763894	-0.501001	-0.503545
6	-1.815827	-2.143102	-0.503545
6	-0.948068	2.644103	-0.503545
17	0.000000	0.000000	-2.996667
8	0.000000	0.000000	-1.531098
8	-0.879519	-1.039475	-3.445664
8	1.339971	-0.241948	-3.445664
8	-0.460453	1.281423	-3.445664

14

30	0.000000	0.000000	-0.101896
7	-1.527252	-1.477480	-0.037117
6	-2.075200	-2.009722	1.031221
1	-1.805520	-1.750724	2.043956
6	-3.054948	-2.954725	-0.699865
1	-3.566049	-3.452434	1.304795
1	-3.727087	-3.604468	-1.233801
7	-0.515910	2.061379	-0.037117
6	-0.702870	2.802037	1.031221
6	-1.031393	4.123025	-0.699865
1	-0.613411	2.438988	2.043956
1	-1.258018	5.029986	-1.233801
1	-1.206870	4.814506	1.304795
7	2.043161	-0.583898	-0.037117
6	2.778070	-0.792315	1.031221
1	2.418931	-0.688264	2.043956
6	4.086341	-1.168300	-0.699865
1	4.772920	-1.362073	1.304795
1	4.985104	-1.425517	-1.233801
7	-3.005821	-2.909797	0.671567
7	4.022868	-1.148219	0.671567
7	-1.017047	4.058015	0.671567
17	0.000000	0.000000	2.401583
6	0.000000	0.000000	-2.202766
7	0.000000	0.000000	-3.361695
1	2.460045	-0.705453	-2.128182
6	2.844017	-0.814049	-1.126094
1	-0.619082	2.483189	-2.128182
6	-0.717021	2.870015	-1.126094
1	-1.840963	-1.777735	-2.128182
6	-2.126995	-2.055966	-1.126094

15

30	0.000000	0.000000	0.266367
7	-1.436863	-1.477785	0.125749
6	-2.005149	-2.063185	1.156599
1	-1.780801	-1.833453	2.187101
6	-2.892632	-2.973549	-0.640228
1	-3.458137	-3.556953	1.326197
1	-3.525031	-3.623063	-1.220670
7	-0.561368	1.983252	0.125749
6	-0.784196	2.768103	1.156599
6	-1.128853	3.991868	-0.640228
1	-0.697416	2.458946	2.187101
1	-1.375149	4.864297	-1.220670
1	-1.351343	4.773311	1.326197
7	1.998231	-0.505467	0.125749
6	2.789345	-0.704918	1.156599

1	2.478218	-0.625493	2.187101
6	4.021485	-1.018318	-0.640228
1	4.809480	-1.216358	1.326197
1	4.900180	-1.241235	-1.220670
7	-2.893216	-2.975614	0.732644
7	4.023566	-1.017792	0.732644
7	-1.130349	3.993406	0.732644
17	0.000000	0.000000	2.677102
6	0.000000	0.000000	-3.110634
7	0.000000	0.000000	-4.282495
1	2.322317	-0.588787	-1.986358
6	2.751583	-0.696956	-1.004979
1	-0.651254	2.305579	-1.986358
6	-0.772210	2.731419	-1.004979
1	-1.671063	-1.716792	-1.986358
6	-1.979373	-2.034463	-1.004979
8	0.000000	0.000000	-1.876325

16

30	0.000000	0.000000	0.903307
7	-1.854871	-0.666673	0.440965
6	-2.699123	-0.971855	1.406012
1	-2.481947	-0.895377	2.460389
6	-3.751605	-1.347548	-0.488984
1	-4.663348	-1.678425	1.405269
1	-4.557679	-1.636361	-1.141132
7	0.350080	1.939702	0.440965
6	0.507911	2.823437	1.406012
6	0.708791	3.922760	-0.488984
1	0.465554	2.597118	2.460389
1	0.861709	4.765246	-1.141132
1	0.878116	4.877790	1.405269
7	1.504791	-1.273029	0.440965
6	2.191213	-1.851582	1.406012
1	2.016393	-1.701741	2.460389
6	3.042814	-2.575211	-0.488984
1	3.785232	-3.199366	1.405269
1	3.695969	-3.128885	-1.141132
7	-3.857660	-1.387812	0.879414
7	3.130710	-2.646926	0.879414
7	0.726950	4.034738	0.879414
17	0.000000	0.000000	3.182904
6	0.000000	0.000000	-4.598012
7	0.000000	0.000000	-5.762162
16	0.000000	0.000000	-2.939555
1	1.621008	-1.375104	-1.701096
6	2.024536	-1.714786	-0.753180
1	0.380371	2.091386	-1.701096
6	0.472780	2.610693	-0.753180
1	-2.001379	-0.716282	-1.701096
6	-2.497316	-0.895907	-0.753180

17

30	0.000000	0.000000	0.947063
7	-1.232230	-1.394831	0.095203
6	-1.050150	-2.678661	-0.053872
1	-0.133214	-3.209991	0.147407
6	-3.069945	-2.188163	-0.631253
1	-2.361223	-4.190386	-0.717994
1	-4.086030	-2.295556	-0.975886
7	-0.591844	1.764558	0.095203
6	-1.794713	2.248787	-0.053872
6	-0.360032	3.752732	-0.631253
1	-2.713327	1.720362	0.147407
1	0.055005	4.686383	-0.975886
1	-2.448370	4.140072	-0.717994
7	1.824074	-0.369727	0.095203
6	2.844863	0.429874	-0.053872
1	2.846541	1.489629	0.147407
6	3.429978	-1.564569	-0.631253
1	4.809592	0.050314	-0.717994
1	4.031024	-2.390828	-0.975886
7	-2.192506	-3.218169	-0.514677
7	3.883269	-0.289682	-0.514677
7	-1.690763	3.507850	-0.514677
7	2.184022	-1.630596	-0.267233
7	-2.504149	-1.076121	-0.267233

7	0.320127	2.706717	-0.267233
17	0.000000	0.000000	3.113449
8	0.000000	0.000000	-4.048717
6	0.000000	0.000000	-2.926376

18

30	0.000000	0.000000	1.225901
7	-1.023543	-1.544562	0.360458
6	-0.605571	-2.751224	0.095347
1	0.405729	-3.104672	0.223976
6	-2.704254	-2.616787	-0.384322
1	-1.632240	-4.431918	-0.657560
1	-3.695368	-2.891056	-0.708189
7	-0.825859	1.658695	0.360458
6	-2.079844	1.900052	0.095347
6	-0.914077	3.650346	-0.384322
1	-2.891590	1.200964	0.223976
1	-0.656044	4.645810	-0.708189
1	-3.022034	3.629520	-0.657560
7	1.849401	-0.114133	0.360458
6	2.685415	0.851172	0.095347
1	2.485860	1.903708	0.223976
6	3.618331	-1.033559	-0.384322
1	4.654273	0.802398	-0.657560
1	4.351411	-1.754754	-0.708189
7	-1.642670	-3.463956	-0.380277
7	3.821208	0.309384	-0.380277
7	-2.178539	3.154572	-0.380277
7	2.428077	-1.306658	0.059625
7	-2.345638	-1.449448	0.059625
7	-0.082439	2.756106	0.059625
17	0.000000	0.000000	3.393772
6	0.000000	0.000000	-3.661765
7	0.000000	0.000000	-2.512030
6	0.000000	0.000000	-5.111122
1	0.588156	-0.838942	-5.486227
1	-1.020623	-0.089887	-5.486227
1	0.432467	0.928829	-5.486227

19

30	0.000000	0.000000	0.828149
7	1.062622	1.519392	-0.038059
6	0.703662	2.756025	-0.248987
1	-0.286881	3.155015	-0.095181
6	2.790302	2.538656	-0.750829
1	1.807282	4.413895	-0.940837
1	3.791559	2.777473	-1.071853
7	0.784521	-1.679954	-0.038059
6	2.034956	-1.987401	-0.248987
6	0.803389	-3.685801	-0.750829
1	2.875764	-1.329061	-0.095181
1	0.509582	-4.672323	-1.071853
1	2.918904	-3.772099	-0.940837
7	-1.847143	0.160562	-0.038059
6	-2.738618	-0.768623	-0.248987
1	-2.588882	-1.825954	-0.095181
6	-3.593692	1.147145	-0.750829
1	-4.726186	-0.641796	-0.940837
1	-4.301142	1.894850	-1.071853
7	1.771617	3.435780	-0.703065
7	-3.861281	-0.183624	-0.703065
7	2.089664	-3.252155	-0.703065
9	0.000000	0.000000	-2.752542
1	0.000000	0.000000	-3.674064
7	-2.377395	1.372590	-0.352898
7	2.377395	1.372590	-0.352898
7	-0.000000	-2.745179	-0.352898
17	0.000000	0.000000	2.993954

20

30	0.000000	0.000000	1.029881
7	-1.456178	-1.145646	0.160075
6	-1.467420	-2.431924	-0.057999
1	-0.636393	-3.101100	0.101769
6	-3.395526	-1.617772	-0.580002
1	-2.994336	-3.696076	-0.776443
1	-4.419124	-1.555152	-0.913062

7	-0.264069	1.833910	0.160075
6	-1.372397	2.486785	-0.057999
6	0.296731	3.749498	-0.580002
1	-2.367435	2.101682	0.101769
1	0.862761	4.604649	-0.913062
1	-1.703728	4.441209	-0.776443
7	1.720247	-0.688264	0.160075
6	2.839818	-0.054861	-0.057999
1	3.003828	0.999418	0.101769
6	3.098795	-2.131725	-0.580002
1	4.698064	-0.745133	-0.776443
1	3.556363	-3.049497	-0.913062
7	-2.680574	-2.771450	-0.529256
7	3.740433	-0.935720	-0.529256
7	-1.059859	3.707170	-0.529256
9	0.000000	0.000000	-2.454499
7	1.873624	-1.999070	-0.167651
7	-2.668057	-0.623071	-0.167651
7	0.794433	2.622141	-0.167651
17	0.000000	0.000000	3.195453
6	0.000000	0.000000	-3.838481
1	0.371117	-0.963790	-4.192357
1	-1.020225	0.160498	-4.192357
1	0.649108	0.803291	-4.192357

21

30	-0.009047	0.003033	1.085788
7	0.884476	1.687043	0.367814
6	0.409331	2.900897	0.317149
1	-0.602609	3.190689	0.552082
6	2.483273	2.937784	-0.274042
1	1.329797	4.722245	-0.214536
1	3.444733	3.303233	-0.597579
7	1.014991	-1.609308	0.378771
6	2.304751	-1.801770	0.343067
6	1.310774	-3.616697	-0.265427
1	3.057107	-1.069176	0.588959
1	1.152605	-4.631475	-0.593816
1	3.431832	-3.505696	-0.180021
7	-1.908017	-0.073918	0.352233
6	-2.722042	-1.092450	0.310655
1	-2.469591	-2.110276	0.562631
6	-3.785380	0.677012	-0.314213
1	-4.755941	-1.212411	-0.233577
1	-4.579783	1.322659	-0.652886
7	1.392439	3.724825	-0.088149
7	-3.923868	-0.658267	-0.109793
7	2.534315	-3.063513	-0.063089
7	-2.569315	1.047191	-0.040055
7	2.192219	1.699648	-0.003284
7	0.379020	-2.748326	-0.003393
17	-0.029394	0.011057	3.270964
7	0.020602	-0.009584	-2.373963
6	1.283171	-0.564560	-2.806380
1	2.107126	0.007508	-2.373302
1	1.365484	-1.600363	-2.468369
1	1.397643	-0.561659	-3.904256
6	-1.086182	-0.824494	-2.821330
1	-1.006383	-1.825844	-2.391677
1	-2.027774	-0.379878	-2.490488
1	-1.129631	-0.920292	-3.920126
6	-0.126575	1.357319	-2.820219
1	-1.038106	1.788335	-2.399454
1	0.725929	1.949702	-2.479386
1	-0.176105	1.444947	-3.919448

22

30	0.000000	0.000000	1.942975
7	-0.110466	1.791075	0.854123
6	-0.951542	2.016484	-0.120257
1	-1.892373	1.514511	-0.262598
6	0.762652	3.276027	-0.406745
1	-0.788621	3.164651	-1.858138
1	1.433717	4.002611	-0.835647
7	1.606349	-0.799871	0.854123
6	2.222098	-0.184182	-0.120257
6	2.455797	-2.298489	-0.406745

1	2.257791	0.881587	-0.262598
1	2.749504	-3.242940	-0.835647
1	3.134979	-0.899359	-1.858138
7	-1.495883	-0.991204	0.854123
6	-1.270555	-1.832302	-0.120257
1	-0.365418	-2.396098	-0.262598
6	-3.218449	-0.977538	-0.406745
1	-2.346357	-2.265292	-1.858138
1	-4.183221	-0.759670	-0.835647
7	-0.445751	2.953504	-0.932968
7	-2.334934	-1.862784	-0.932968
7	2.780685	-1.090720	-0.932968
9	0.000000	0.000000	-1.592581
7	-2.737453	-0.447870	0.678768
7	0.980859	2.594639	0.678768
7	1.756594	-2.146769	0.678768
5	0.000000	0.000000	-3.012626
9	1.311143	-0.227669	-3.439257
9	-0.458405	1.249317	-3.439257
9	-0.852738	-1.021649	-3.439257
17	0.000000	0.000000	4.101403

23

30	0.000000	0.000000	2.051377
7	-0.986440	-1.509451	0.981883
6	-0.426203	-2.262952	0.073185
1	0.628912	-2.462976	-0.003957
6	-2.534913	-2.184506	-0.323065
1	-1.196464	-3.155989	-1.654756
1	-3.490414	-2.350398	-0.793708
7	-0.814003	1.609008	0.981883
6	-1.746673	1.500578	0.073185
6	-0.624381	3.287553	-0.323065
1	-2.447456	0.686834	-0.003957
1	-0.290297	4.197986	-0.793708
1	-2.134935	2.614163	-1.654756
7	1.800443	-0.099557	0.981883
6	2.172875	0.762374	0.073185
1	1.818544	1.776142	-0.003957
6	3.159295	-1.103046	-0.323065
1	3.331399	0.541826	-1.654756
1	3.780711	-1.847588	-0.793708
7	-1.368974	-2.720568	-0.761826
7	3.040568	0.174718	-0.761826
7	-1.671594	2.545850	-0.761826
7	2.429970	-1.286756	0.736812
7	-2.329348	-1.461038	0.736812
7	-0.100622	2.747794	0.736812
8	0.000000	0.000000	-1.445108
8	-0.966645	0.962465	-3.356769
8	-0.350196	-1.318372	-3.356769
8	1.316841	0.355907	-3.356769
17	0.000000	0.000000	-2.898239
17	0.000000	0.000000	4.212524

24

30	0.000000	0.000000	1.396289
7	-1.763606	-0.063321	0.294038
6	-1.961078	-0.816698	-0.755862
1	-1.369221	-1.662439	-1.052153
6	-3.446494	0.739933	-0.739677
1	-3.330268	-0.672481	-2.331439
1	-4.286951	1.349823	-1.029197
7	0.826965	1.558988	0.294038
6	0.273258	2.106693	-0.755862
6	2.364047	2.614785	-0.739677
1	-0.755104	2.016999	-1.052153
1	3.312456	3.037697	-1.029197
1	1.082748	3.220337	-2.331439
7	0.936641	-1.495667	0.294038
6	1.687820	-1.289995	-0.755862
1	2.124324	-0.354561	-1.052153
6	1.082446	-3.354717	-0.739677
1	2.247520	-2.547856	-2.331439
1	0.974494	-4.387520	-1.029197
7	-3.029603	-0.358111	-1.423637
7	1.824935	-2.444657	-1.423637

7	1.204668	2.802768	-1.423637
7	0.542210	-2.803329	0.304871
7	-2.698859	0.932097	0.304871
7	2.156649	1.871232	0.304871
17	0.000000	0.000000	3.554427
6	0.000000	0.000000	-2.821066
7	0.000000	0.000000	-3.987168

25

30	0.000000	0.000000	1.519095
7	1.307760	-1.215988	0.453297
6	2.113819	-0.806984	-0.488898
1	2.412658	0.212079	-0.660866
6	1.866899	-2.935959	-0.676768
1	3.059450	-1.837125	-2.054054
1	1.964510	-3.944989	-1.043354
7	-1.706957	-0.524560	0.453297
6	-1.755779	-1.427129	-0.488898
6	-3.476064	-0.148803	-0.676768
1	-1.022663	-2.195463	-0.660866
1	-4.398716	0.271179	-1.043354
1	-3.120722	-1.730999	-2.054054
7	0.399196	1.740548	0.453297
6	-0.358041	2.234114	-0.488898
1	-1.389995	1.983383	-0.660866
6	1.609165	3.084761	-0.676768
1	0.061272	3.568124	-2.054054
1	2.434206	3.673810	-1.043354
7	2.507603	-1.865119	-1.212982
7	0.361439	3.104208	-1.212982
7	-2.869042	-1.239088	-1.212982
7	1.650995	2.271322	0.335011
7	1.141525	-2.565465	0.335011
7	-2.792520	0.294143	0.335011
17	0.000000	0.000000	3.681511
8	0.000000	0.000000	-2.034186
6	0.000000	0.000000	-3.267336
7	0.000000	0.000000	-4.443721

26

30	0.000000	0.000000	1.650444
7	1.794084	-0.098276	0.615835
6	2.292593	0.828927	-0.157580
1	1.947288	1.848849	-0.207450
6	3.340429	-1.012887	-0.530246
1	3.788507	0.748388	-1.627349
1	4.029946	-1.725237	-0.952932
7	-0.982151	-1.504584	0.615835
6	-0.428425	-2.399907	-0.157580
6	-2.547400	-2.386453	-0.530246
1	0.627506	-2.610826	-0.207450
1	-3.509072	-2.627417	-0.952932
1	-1.246130	-3.655137	-1.627349
7	-0.811933	1.602860	0.615835
6	-1.864168	1.570980	-0.157580
1	-2.574794	0.761977	-0.207450
6	-0.793029	3.399340	-0.530246
1	-2.542376	2.906749	-1.627349
1	-0.520874	4.352654	-0.952932
7	3.290481	0.296552	-0.879183
7	-1.902062	2.701364	-0.879183
7	-1.388419	-2.997917	-0.879183
7	-0.126743	2.758117	0.381385
7	2.451971	-1.269295	0.381385
7	-2.325227	-1.488821	0.381385
17	0.000000	0.000000	3.815707
6	0.000000	0.000000	-3.948619
7	0.000000	0.000000	-5.113885
16	0.000000	0.000000	-2.289135

27

30	0.000000	0.000000	0.595045
7	1.224864	-1.490974	-0.015022
6	1.845145	-2.237120	0.876668
1	1.757941	-2.122719	1.946106
6	2.456214	-2.995492	-1.095254
1	3.168524	-3.845963	0.715812

1	2.965843	-3.620463	-1.808500
7	-1.903654	-0.315276	-0.015022
6	-2.859976	-0.479382	0.876668
6	-3.822279	-0.629398	-1.095254
1	-2.717299	-0.461062	1.946106
1	-4.618334	-0.758264	-1.808500
1	-4.914964	-0.821041	0.715812
7	0.678790	1.806251	-0.015022
6	1.014831	2.716503	0.876668
1	0.959358	2.583781	1.946106
6	1.366065	3.624890	-1.095254
1	1.746439	4.667004	0.715812
1	1.652492	4.378726	-1.808500
7	2.596961	-3.155320	0.257420
7	1.434107	3.826694	0.257420
7	-4.031067	-0.671374	0.257420
8	0.000000	0.000000	-5.444872
6	0.000000	0.000000	-4.324465
1	0.695147	1.817826	-2.161941
1	1.226710	-1.510928	-2.161941
1	-1.921857	-0.306898	-2.161941
6	-2.490271	-0.406554	-1.252142
6	1.597221	-1.953361	-1.252142
6	0.893050	2.359915	-1.252142
7	0.000000	0.000000	2.492920
7	0.000000	0.000000	3.681879
7	0.000000	0.000000	4.819877

28

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7	0.271322	1.909841	0.237761
6	0.407926	2.875219	1.123633
1	0.388445	2.739739	2.193931
6	0.543290	3.825017	-0.855197
1	0.700333	4.936519	0.949133
1	0.656197	4.619388	-1.572861
7	1.518310	-1.189892	0.237761
6	2.286049	-1.790884	1.123633
6	3.040917	-2.383011	-0.855197
1	2.178461	-1.706273	2.193931
1	3.672409	-2.877978	-1.572861
1	3.924985	-3.074766	0.949133
7	-1.789632	-0.719949	0.237761
6	-2.693976	-1.084335	1.123633
1	-2.566906	-1.033466	2.193931
6	-3.584207	-1.442005	-0.855197
1	-4.625318	-1.861754	0.949133
1	-4.328606	-1.741411	-1.572861
7	0.574234	4.046286	0.496740
7	-3.791303	-1.525842	0.496740
7	3.217070	-2.520444	0.496740
6	0.000000	0.000000	-4.655963
7	0.000000	0.000000	-3.506453
6	0.000000	0.000000	-6.103338
1	-0.795902	0.647050	-6.475398
1	0.958312	0.365746	-6.475398
1	-0.162411	-1.012796	-6.475398
1	-1.782094	-0.715733	-1.906548
1	0.271204	1.901205	-1.906548
1	1.510889	-1.185472	-1.906548
6	-2.330436	-0.937122	-1.004934
6	0.353646	2.486778	-1.004934
6	1.976789	-1.549655	-1.004934
7	0.000000	0.000000	2.742809
7	0.000000	0.000000	3.931042
7	0.000000	0.000000	5.069845

29

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7	-1.931835	0.000032	-0.210923
6	-2.897170	-0.001252	0.686021
1	-2.747723	-0.002553	1.754665
6	-3.880588	0.000993	-1.280887
1	-4.980991	-0.001480	0.536234
1	-4.691155	0.001755	-1.989366
7	0.965946	1.673002	-0.210923
6	1.447501	2.509649	0.686021

6	1.941154	3.360192	-1.280887
1	1.371651	2.380874	1.754665
1	2.347097	4.061782	-1.989366
1	2.489214	4.314405	0.536234
7	0.965889	-1.673034	-0.210923
6	1.449670	-2.508397	0.686021
1	1.376072	-2.378322	1.754665
6	1.939434	-3.361185	-1.280887
1	2.491777	-4.312925	0.536234
1	2.344058	-4.063536	-1.989366
7	-4.087107	-0.000755	0.073141
7	2.044208	-3.539161	0.073141
7	2.042899	3.539916	0.073141
9	0.000000	0.000000	-3.764047
1	0.000000	0.000000	-4.687791
1	0.980169	1.692523	-2.357092
1	0.975684	-1.695113	-2.357092
1	-1.955853	0.002589	-2.357092
6	1.264245	-2.192538	-1.445898
6	-2.530916	0.001400	-1.445898
6	1.266671	2.191137	-1.445898
7	0.000000	0.000000	2.290007
7	0.000000	0.000000	3.478692
7	0.000000	0.000000	4.617036

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6	2.899455	-0.000666	0.922344
1	2.754110	-0.000568	1.991552
6	3.875462	-0.000867	-1.048335
1	4.982740	-0.001342	0.764742
1	4.683455	-0.001079	-1.759740
7	-0.965786	-1.672087	0.028936
6	-1.450304	-2.510668	0.922344
6	-1.938482	-3.355815	-1.048335
1	-1.377547	-2.384846	1.991552
1	-2.342662	-4.055452	-1.759740
1	-2.492532	-4.314508	0.764742
7	-0.965177	1.672439	0.028936
6	-1.449151	2.511334	0.922344
1	-1.376564	2.385413	1.991552
6	-1.936980	3.356682	-1.048335
1	-2.490207	4.315850	0.764742
1	-2.340793	4.056531	-1.759740
7	4.087153	-0.001035	0.305011
7	-2.042680	3.540096	0.305011
7	-2.044473	-3.539061	0.305011
9	0.000000	0.000000	-3.484731
1	-0.972626	-1.684266	-2.116491
1	-0.972304	1.684452	-2.116491
1	1.944930	-0.000186	-2.116491
6	-1.262154	2.187099	-1.208420
6	2.525160	-0.000492	-1.208420
6	-1.263006	-2.186607	-1.208420
6	0.000000	0.000000	-4.880563
1	0.515188	0.897037	-5.225119
1	0.519263	-0.894685	-5.225119
1	-1.034451	-0.002352	-5.225119
7	0.000000	0.000000	2.531833
7	0.000000	0.000000	3.720419
7	0.000000	0.000000	4.858825

31

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7	-1.884986	-0.122212	0.471927
6	-2.948821	-0.195650	1.243861
1	-2.935975	-0.198938	2.322809
6	-3.682984	-0.235859	-0.829527
1	-4.995223	-0.329463	0.838622
1	-4.400185	-0.280046	-1.631267
7	0.836655	1.693551	0.471927
6	1.304972	2.651579	1.243861
6	1.637232	3.307488	-0.829527
1	1.295702	2.642098	2.322809
1	1.957566	3.950695	-1.631267
1	2.212288	4.490721	0.838622

7	1.048331	-1.571340	0.471927
6	1.643848	-2.455929	1.243861
1	1.640273	-2.443159	2.322809
6	2.045752	-3.071628	-0.829527
1	2.782935	-4.161258	0.838622
1	2.442620	-3.670649	-1.631267
7	-4.053207	-0.265733	0.489183
7	2.256735	-3.377314	0.489183
7	1.796472	3.643047	0.489183
7	0.000000	0.000000	-3.651804
6	-0.763224	1.145622	-4.114642
1	-1.789822	1.090451	-3.745393
1	-0.319267	2.071477	-3.741819
1	-0.801634	1.206912	-5.214190
6	1.373750	0.088161	-4.114642
1	1.839269	1.004806	-3.745393
1	1.953585	-0.759246	-3.741819
1	1.446034	0.090780	-5.214190
6	-0.610526	-1.233782	-4.114642
1	-0.049447	-2.095257	-3.745393
1	-1.634319	-1.312232	-3.741819
1	-0.644399	-1.297692	-5.214190
1	-1.636105	-0.096671	-1.656154
1	0.901772	-1.368573	-1.656154
1	0.734333	1.465244	-1.656154
6	-2.325803	-0.146023	-0.827235
6	1.289361	-1.941193	-0.827235
6	1.036442	2.087216	-0.827235
7	0.000000	0.000000	3.082683
7	0.000000	0.000000	4.270597
7	0.000000	0.000000	5.408417

32

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7	-0.839919	1.844593	0.332306
6	-1.167350	2.580039	1.373306
1	-1.027903	2.287060	2.401439
6	-1.709930	3.748530	-0.408731
1	-2.026742	4.474451	1.566495
1	-2.090595	4.578000	-0.979369
7	2.017423	-0.194906	0.332306
6	2.818054	-0.279065	1.373306
6	4.101287	-0.393423	-0.408731
1	2.494603	-0.253340	2.401439
1	5.009962	-0.478491	-0.979369
1	4.888359	-0.482016	1.566495
7	-1.177505	-1.649687	0.332306
6	-1.650704	-2.300974	1.373306
1	-1.466700	-2.033720	2.401439
6	-2.391358	-3.355108	-0.408731
1	-2.861617	-3.992435	1.566495
1	-2.919367	-4.099509	-0.979369
7	-1.697395	3.740878	0.963855
7	-2.390997	-3.340426	0.963855
7	4.088393	-0.400451	0.963855
1	2.380782	-0.217804	-1.783927
1	-1.379015	-1.952916	-1.783927
1	-1.001768	2.170720	-1.783927
6	-1.630743	-2.295011	-0.792257
6	-1.172166	2.559770	-0.792257
6	2.802909	-0.264759	-0.792257
9	0.000000	0.000000	-1.743269
9	1.319989	-0.102144	-3.611287
9	-0.571535	1.194216	-3.611287
9	-0.748453	-1.092072	-3.611287
5	0.000000	0.000000	-3.201256
7	0.000000	0.000000	2.578220
7	0.000000	0.000000	3.762266
7	0.000000	0.000000	4.909293

33

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7	-1.016099	-1.758536	0.474706
6	-1.413850	-2.443990	1.525497
1	-1.246275	-2.151928	2.549561
6	-2.067895	-3.579121	-0.240514
1	-2.454078	-4.242501	1.744392

1	-2.527533	-4.375252	-0.800393
7	-1.014887	1.759235	0.474706
6	-1.409632	2.446425	1.525497
6	-2.065662	3.580410	-0.240514
1	-1.240487	2.155270	2.549561
1	-2.525312	4.376534	-0.800393
1	-2.447075	4.246544	1.744392
7	2.030986	-0.000699	0.474706
6	2.823482	-0.002435	1.525497
1	2.486762	-0.003342	2.549561
6	4.133557	-0.001290	-0.240514
1	4.901153	-0.004043	1.744392
1	5.052846	-0.001282	-0.800393
7	-2.054751	-3.553302	1.131734
7	4.104626	-0.002815	1.131734
7	-2.049875	3.556118	1.131734
1	-1.212761	2.097620	-1.636840
1	2.422973	0.001472	-1.636840
1	-1.210212	-2.099092	-1.636840
6	2.833582	0.000069	-0.639576
6	-1.416732	-2.453988	-0.639576
6	-1.416851	2.453920	-0.639576
17	0.000000	0.000000	-3.134568
8	0.000000	0.000000	-1.668177
8	-0.679949	-1.179843	-3.581373
8	1.361749	0.001069	-3.581373
8	-0.681800	1.178774	-3.581373
7	0.000000	0.000000	2.706957
7	0.000000	0.000000	3.891076
7	0.000000	0.000000	5.038339

34

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6	-2.578101	-1.209829	-0.891337
1	-2.222082	-1.041027	-1.894627
6	-3.859135	-1.813924	0.793488
1	-4.447756	-2.087226	-1.232881
1	-4.720386	-2.219027	1.296619
7	1.739792	-1.209967	0.200465
6	2.336793	-1.627787	-0.891337
6	3.500472	-2.435147	0.793488
1	2.012597	-1.403866	-1.894627
1	4.281927	-2.978461	1.296619
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7	0.177966	2.111688	0.200465
6	0.241308	2.837616	-0.891337
1	0.209485	2.444893	-1.894627
6	0.358663	4.249071	0.793488
1	0.416287	4.895483	-1.232881
1	0.438459	5.197488	1.296619
7	-3.760087	-1.765333	-0.574664
7	0.351221	4.138998	-0.574664
7	3.408867	-2.373665	-0.574664
6	0.000000	0.000000	2.397134
7	0.000000	0.000000	3.555800
1	0.217526	2.610070	2.275616
6	0.249927	2.975779	1.261297
1	2.151625	-1.493418	2.275616
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1	-2.369150	-1.116652	2.275616
6	-2.702064	-1.271446	1.261297
7	0.000000	0.000000	-1.826972
7	0.000000	0.000000	-3.008863
7	0.000000	0.000000	-4.161379

35

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6	2.109863	-1.913689	1.015827
1	1.859241	-1.687367	2.039770
6	3.084134	-2.795527	-0.748987
1	3.650834	-3.310598	1.235987
1	3.766228	-3.413429	-1.307245
7	-1.959576	-0.629242	-0.033782
6	-2.712235	-0.870350	1.015827
6	-3.963064	-1.273175	-0.748987

1	-2.390923	-0.766466	2.039770
1	-4.839230	-1.554935	-1.307245
1	-4.692479	-1.506416	1.235987
7	0.434849	2.011664	-0.033782
6	0.602372	2.784039	1.015827
1	0.531682	2.453833	2.039770
6	0.878931	4.068702	-0.748987
1	1.041644	4.817014	1.235987
1	1.073002	4.968364	-1.307245
7	3.060959	-2.775449	0.623206
7	0.873130	4.038593	0.623206
7	-3.934089	-1.263143	0.623206
6	0.000000	0.000000	-3.289124
7	0.000000	0.000000	-4.460472
1	0.514434	2.385610	-2.136474
6	0.603839	2.796866	-1.145153
1	-2.323216	-0.747292	-2.136474
6	-2.724077	-0.875493	-1.145153
1	1.808782	-1.638318	-2.136474
6	2.120237	-1.921373	-1.145153
8	0.000000	0.000000	-2.054115
7	0.000000	0.000000	2.134639
7	0.000000	0.000000	3.318173
7	0.000000	0.000000	4.467443

36

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7	0.992493	-1.718926	0.242803
6	1.421384	-2.458187	1.245835
1	1.286956	-2.222057	2.289355
6	2.018727	-3.498633	-0.597277
1	2.464682	-4.264229	1.337816
1	2.460090	-4.264794	-1.210993
7	-1.984880	-0.000061	0.242803
6	-2.839544	-0.001861	1.245835
6	-4.039269	0.001048	-0.597277
1	-2.567836	-0.003508	2.289355
1	-4.923465	0.001897	-1.210993
1	-4.925272	-0.002363	1.337816
7	0.992387	1.718987	0.242803
6	1.418161	2.460048	1.245835
1	1.280880	2.225566	2.289355
6	2.020542	3.497586	-0.597277
1	2.460590	4.266592	1.337816
1	2.463375	4.262897	-1.210993
7	2.047479	-3.543756	0.774532
7	2.045244	3.545047	0.774532
7	-4.092722	-0.001290	0.774532
6	0.000000	0.000000	-4.641206
7	0.000000	0.000000	-5.805209
16	0.000000	0.000000	-2.982762
1	1.115501	1.925740	-1.884500
6	1.360853	2.353664	-0.919441
1	-2.225490	0.003182	-1.884500
6	-2.718760	0.001701	-0.919441
1	1.109989	-1.928922	-1.884500
6	1.357907	-2.355365	-0.919441
7	0.000000	0.000000	2.599096
7	0.000000	0.000000	3.784029
7	0.000000	0.000000	4.928118

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30	0.000000	0.000000	0.759585
7	-1.864013	-0.094697	-0.073948
6	-2.655970	-1.120474	-0.230620
1	-2.396096	-2.149433	-0.037225
6	-3.715035	0.671600	-0.796967
1	-4.653324	-1.233149	-0.896377
1	-4.501399	1.326161	-1.137563
7	0.849996	1.661632	-0.073948
6	0.357626	2.860375	-0.230620
6	2.439140	2.881515	-0.796967
1	-0.663415	3.149797	-0.037225
1	3.399188	3.235245	-1.137563
1	1.258724	4.646472	-0.896377
7	1.014017	-1.566934	-0.073948
6	2.298344	-1.739901	-0.230620

1	3.059512	-1.000364	-0.037225
6	1.275895	-3.553115	-0.796967
1	3.394601	-3.413323	-0.896377
1	1.102210	-4.561406	-1.137563
7	-3.839557	-0.676383	-0.688872
7	2.505543	-2.986962	-0.688872
7	1.334013	3.663345	-0.688872
7	0.360767	-2.706088	-0.430213
7	-2.523924	1.040610	-0.430213
7	2.163157	1.665478	-0.430213
8	0.000000	0.000000	-4.228539
6	0.000000	0.000000	-3.106290
7	0.000000	0.000000	2.613006
7	0.000000	0.000000	3.799410
7	0.000000	0.000000	4.936481

38

30	0.000000	0.000000	1.038476
7	1.766629	-0.575416	0.192181
6	2.819212	0.144981	-0.080664
1	2.893136	1.214650	0.040094
6	3.243714	-1.917631	-0.547952
1	4.709967	-0.405498	-0.834016
1	3.769817	-2.802964	-0.867183
7	-1.381639	-1.242237	0.192181
6	-1.284048	-2.514000	-0.080664
6	-3.282574	-1.850323	-0.547952
1	-0.394650	-3.112854	0.040094
1	-4.312346	-1.863275	-0.867183
1	-2.706155	-3.876202	-0.834016
7	-0.384990	1.817653	0.192181
6	-1.535163	2.369018	-0.080664
1	-2.498486	1.898204	0.040094
6	0.038860	3.767954	-0.547952
1	-2.003812	4.281700	-0.834016
1	0.542530	4.666239	-0.867183
7	3.779778	-0.669768	-0.552760
7	-1.309853	3.608268	-0.552760
7	-2.469925	-2.938500	-0.552760
7	0.614055	2.691700	-0.101534
7	2.024053	-1.877637	-0.101534
7	-2.638108	-0.814063	-0.101534
6	0.000000	0.000000	-3.834607
7	0.000000	0.000000	-2.684865
6	0.000000	0.000000	-5.283924
1	0.651795	0.790530	-5.659007
1	0.358722	-0.959736	-5.659007
1	-1.010516	0.169206	-5.659007
7	0.000000	0.000000	2.893724
7	0.000000	0.000000	4.079329
7	0.000000	0.000000	5.217053

39

30	0.000000	0.000000	0.638159
7	1.457207	-1.154714	-0.209310
6	2.712664	-0.873698	-0.427944
1	3.172723	0.091380	-0.282746
6	2.365443	-2.945845	-0.916881
1	4.296557	-2.080908	-1.120139
1	2.541071	-3.961746	-1.232791
7	-1.728615	-0.684621	-0.209310
6	-2.112977	-1.912387	-0.427944
6	-3.733898	-0.575611	-0.916881
1	-1.507224	-2.793349	-0.282746
1	-4.701508	-0.219759	-1.232791
1	-3.950398	-2.680473	-1.120139
7	0.271408	1.839335	-0.209310
6	-0.599688	2.786085	-0.427944
1	-1.665499	2.701969	-0.282746
6	1.368456	3.521456	-0.916881
1	-0.346159	4.761381	-1.120139
1	2.160437	4.181505	-1.232791
7	3.323572	-1.984032	-0.877876
7	0.056436	3.870314	-0.877876
7	-3.380008	-1.886282	-0.877876
9	0.000000	0.000000	-2.930796
1	0.000000	0.000000	-3.852404

7	1.515966	2.293939	-0.516729
7	1.228626	-2.459835	-0.516729
7	-2.744593	0.165896	-0.516729
7	0.000000	0.000000	2.491178
7	0.000000	0.000000	3.677251
7	0.000000	0.000000	4.814559

40

30	0.000000	0.000000	0.843917
7	1.841013	-0.250506	-0.007157
6	2.774649	0.632699	-0.232715
1	2.680074	1.696598	-0.080447
6	3.525873	-1.323665	-0.744184
1	4.743423	0.406245	-0.952652
1	4.190759	-2.106074	-1.073507
7	-1.137451	-1.469111	-0.007157
6	-0.839391	-2.719266	-0.232715
6	-2.909264	-2.391663	-0.744184
1	0.129260	-3.169311	-0.080447
1	-3.919293	-2.576267	-1.073507
1	-2.019893	-4.311048	-0.952652
7	-0.703561	1.719617	-0.007157
6	-1.935258	2.086567	-0.232715
1	-2.809334	1.472713	-0.080447
6	-0.616609	3.715328	-0.744184
1	-2.723531	3.904802	-0.952652
1	-0.271466	4.682341	-1.073507
7	3.860182	-0.008010	-0.701627
7	-1.923154	3.347021	-0.701627
7	-1.937028	-3.339011	-0.701627
9	0.000000	0.000000	-2.627618
7	0.135641	2.740365	-0.329018
7	2.305405	-1.487651	-0.329018
7	-2.441046	-1.252713	-0.329018
6	0.000000	0.000000	-4.012125
1	0.434723	0.936852	-4.365728
1	0.593976	-0.844907	-4.365728
1	-1.028699	-0.091945	-4.365728
7	0.000000	0.000000	2.696825
7	0.000000	0.000000	3.882850
7	0.000000	0.000000	5.020159

41

30	0.000000	0.000000	0.916848
7	1.684153	-0.899636	0.211480
6	2.900634	-0.432031	0.149815
1	3.198640	0.579216	0.377697
6	2.920383	-2.507738	-0.436382
1	4.712255	-1.365232	-0.392981
1	3.277548	-3.472249	-0.760196
7	-1.621185	-1.008702	0.211480
6	-1.824467	-2.296007	0.149815
6	-3.631956	-1.275257	-0.436382
1	-1.097705	-3.059712	0.377697
1	-4.645830	-1.102315	-0.760196
1	-3.538453	-3.398317	-0.392981
7	-0.062969	1.908338	0.211480
6	-1.076167	2.728039	0.149815
1	-2.100936	2.480496	0.377697
6	0.711573	3.782995	-0.436382
1	-1.173802	4.763549	-0.392981
1	1.368282	4.574564	-0.760196
7	3.715330	-1.421318	-0.258811
7	-0.626767	3.928229	-0.258811
7	-3.088562	-2.506911	-0.258811
7	1.069508	2.564383	-0.157133
7	1.686067	-2.208412	-0.157133
7	-2.755574	-0.355970	-0.157133
7	0.000000	0.000000	-2.525303
6	-0.567217	-1.253748	-2.968413
1	-0.003600	-2.086822	-2.541674
1	-1.604033	-1.328221	-2.631840
1	-0.564433	-1.359400	-4.067002
6	-0.802170	1.118098	-2.968413
1	-1.805441	1.046528	-2.541674
1	-0.348257	2.053244	-2.631840
1	-0.895058	1.168514	-4.067002

6	1.369386	0.135650	-2.968413
1	1.809041	1.040293	-2.541674
1	1.952290	-0.725023	-2.631840
1	1.459491	0.190886	-4.067002
7	0.000000	0.000000	2.787398
7	0.000000	0.000000	3.973197
7	0.000000	0.000000	5.111272

42

30	0.000000	0.000000	1.752017
7	1.794150	-0.093650	0.684413
6	2.115882	0.708407	-0.296184
1	1.725454	1.699317	-0.447812
6	3.169901	-1.142063	-0.566481
1	3.240850	0.401616	-2.029093
1	3.815555	-1.895333	-0.988335
7	-0.978178	-1.506954	0.684413
6	-0.444443	-2.186611	-0.296184
6	-2.574006	-2.174183	-0.566481
1	0.608925	-2.343946	-0.447812
1	-3.549184	-2.356701	-0.988335
1	-1.272616	-3.007467	-2.029093
7	-0.815972	1.600605	0.684413
6	-1.671439	1.478204	-0.296184
1	-2.334379	0.644629	-0.447812
6	-0.595895	3.316246	-0.566481
1	-1.968235	2.605851	-2.029093
1	-0.266371	4.252034	-0.988335
7	2.989146	0.091503	-1.102416
7	-1.573817	2.542925	-1.102416
7	-1.415329	-2.634428	-1.102416
9	0.000000	0.000000	-1.753520
7	-0.131428	2.771989	0.518971
7	2.466327	-1.272174	0.518971
7	-2.334899	-1.499815	0.518971
5	0.000000	0.000000	-3.174765
9	-0.381257	-1.274970	-3.600103
9	1.294785	0.307307	-3.600103
9	-0.913528	0.967663	-3.600103
7	0.000000	0.000000	3.598864
7	0.000000	0.000000	4.780744
7	0.000000	0.000000	5.920555

43

30	0.000000	0.000000	1.865290
7	1.400524	-1.139895	0.817343
6	2.206691	-0.667032	-0.096408
1	2.517319	0.360408	-0.180005
6	1.902785	-2.757464	-0.481355
1	3.009758	-1.536617	-1.820850
1	1.965341	-3.727531	-0.947244
7	-1.687440	-0.642942	0.817343
6	-1.681012	-1.577534	-0.096408
6	-3.339427	-0.269128	-0.481355
1	-0.946537	-2.360266	-0.180005
1	-4.210807	0.161730	-0.947244
1	-2.835628	-1.838218	-1.820850
7	0.286916	1.782837	0.817343
6	-0.525679	2.244566	-0.096408
1	-1.570782	1.999858	-0.180005
6	1.436641	3.026593	-0.481355
1	-0.174130	3.374835	-1.820850
1	2.245466	3.565801	-0.947244
7	2.558450	-1.657061	-0.927167
7	0.155832	3.044213	-0.927167
7	-2.714281	-1.387152	-0.927167
7	1.536172	2.281790	0.579213
7	1.208002	-2.471259	0.579213
7	-2.744174	0.189469	0.579213
8	0.000000	0.000000	-1.602575
8	-1.062769	-0.855028	-3.513806
8	1.271861	-0.492871	-3.513806
8	-0.209092	1.347899	-3.513806
17	0.000000	0.000000	-3.056413
7	0.000000	0.000000	3.714883
7	0.000000	0.000000	4.896819
7	0.000000	0.000000	6.036744

44

30	0.000000	0.000000	1.183785
7	-1.014747	1.451141	0.109046
6	-1.766750	1.216573	-0.934371
1	-2.169241	0.264586	-1.226610
6	-1.242627	3.303686	-0.921328
1	-2.394299	2.454784	-2.500339
1	-1.178335	4.340193	-1.210601
7	1.764098	0.153226	0.109046
6	1.936958	0.921764	-0.934371
6	3.482389	-0.575697	-0.921328
1	1.313759	1.746324	-1.226610
1	4.347885	-1.149629	-1.210601
1	3.323055	0.846131	-2.500339
7	-0.749352	-1.604367	0.109046
6	-0.170208	-2.138337	-0.934371
1	0.855482	-2.010911	-1.226610
6	-2.239763	-2.727989	-0.921328
1	-0.928756	-3.300916	-2.500339
1	-3.169550	-3.190564	-1.210601
7	-1.955545	2.365590	-1.598757
7	-1.070888	-2.876346	-1.598757
7	3.026433	0.510757	-1.598757
7	-2.066138	-1.967588	0.117158
7	-0.670913	2.773122	0.117158
7	2.737050	-0.805533	0.117158
6	0.000000	0.000000	-2.961338
7	0.000000	0.000000	-4.127391
7	0.000000	0.000000	3.031587
7	0.000000	0.000000	4.212997
7	0.000000	0.000000	5.353285

45

30	0.000000	0.000000	1.320859
7	-1.362573	-1.159341	0.275742
6	-1.054993	-2.004722	-0.670977
1	-0.079048	-2.420999	-0.848621
6	-3.140878	-1.507309	-0.848571
1	-2.196249	-2.817946	-2.233174
1	-4.155881	-1.484341	-1.210952
7	-0.322732	1.759694	0.275742
6	-1.208644	1.916012	-0.670977
6	0.265070	3.473735	-0.848571
1	-2.057122	1.278957	-0.848621
1	0.792463	4.341269	-1.210952
1	-1.342288	3.310981	-2.233174
7	1.685306	-0.600352	0.275742
6	2.263637	0.088710	-0.670977
1	2.136171	1.142042	-0.848621
6	2.875807	-1.966425	-0.848571
1	3.538538	-0.493035	-2.233174
1	3.363418	-2.856928	-1.210952
7	-2.154952	-2.267927	-1.391327
7	3.041559	-0.732280	-1.391327
7	-0.886607	3.000207	-1.391327
7	2.064072	-1.906845	0.163643
7	-2.683412	-0.834116	0.163643
7	0.619340	2.740961	0.163643
8	0.000000	0.000000	-2.203235
6	0.000000	0.000000	-3.436762
7	0.000000	0.000000	-4.612806
7	0.000000	0.000000	3.171706
7	0.000000	0.000000	4.353375
7	0.000000	0.000000	5.493659

46

30	0.000000	0.000000	1.454409
7	0.100708	1.799027	0.444013
6	-0.820107	2.301227	-0.335041
1	-1.841232	1.960579	-0.390795
6	1.028206	3.341607	-0.697048
1	-0.725847	3.798741	-1.802273
1	1.745523	4.028708	-1.115315
7	1.507649	-0.986729	0.444013
6	2.402975	-0.440380	-0.335041
6	2.379813	-2.561256	-0.697048

1	2.618527	0.614264	-0.390795
1	2.616202	-3.526021	-1.115315
1	3.652730	-1.270769	-1.802273
7	-1.608357	-0.812298	0.444013
6	-1.582867	-1.860847	-0.335041
1	-0.777295	-2.574843	-0.390795
6	-3.408019	-0.780350	-0.697048
1	-2.926883	-2.527972	-1.802273
1	-4.361725	-0.502687	-1.115315
7	-0.279492	3.296721	-1.053335
7	-2.715298	-1.890408	-1.053335
7	2.994790	-1.406313	-1.053335
7	-2.760980	-0.120389	0.215100
7	1.276230	2.451273	0.215100
7	1.484750	-2.330884	0.215100
6	0.000000	0.000000	-4.112699
7	0.000000	0.000000	-5.277788
16	0.000000	0.000000	-2.453180
7	0.000000	0.000000	3.308981
7	0.000000	0.000000	4.491090
7	0.000000	0.000000	5.631461

47

30	0.000000	0.000000	0.546631
7	1.807172	-0.662344	-0.071808
6	2.727874	-0.995016	0.809420
1	2.588435	-0.940055	1.879668
6	3.618444	-1.328248	-1.175867
1	4.681588	-1.709167	0.623155
1	4.367033	-1.604585	-1.898575
7	-1.477193	-1.233885	-0.071808
6	-2.225646	-1.864900	0.809420
6	-2.959518	-2.469540	-1.175867
1	-2.108329	-1.771623	1.879668
1	-3.573128	-2.979669	-1.898575
1	-3.820976	-3.199791	0.623155
7	-0.329979	1.896229	-0.071808
6	-0.502228	2.859916	0.809420
1	-0.480106	2.711678	1.879668
6	-0.658926	3.797788	-1.175867
1	-0.860612	4.908958	0.623155
1	-0.793906	4.584254	-1.898575
7	3.834366	-1.401567	0.175174
7	-0.703390	4.021442	0.175174
7	-3.130976	-2.619875	0.175174
8	0.000000	0.000000	-5.526523
6	0.000000	0.000000	-4.406010
1	-0.320020	1.887977	-2.219903
1	1.795046	-0.666843	-2.219903
1	-1.475026	-1.221134	-2.219903
6	-1.923292	-1.601128	-1.316840
6	2.348263	-0.865056	-1.316840
6	-0.424971	2.466183	-1.316840
16	0.000000	0.000000	2.792467
6	0.000000	0.000000	4.606013
1	0.178467	-1.010664	4.969743
1	0.786027	0.659889	4.969743
1	-0.964494	0.350774	4.969743

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30	0.000000	0.000000	0.779614
7	-0.900650	1.701795	0.177053
6	-1.359184	2.567066	1.057388
1	-1.289300	2.435912	2.127747
6	-1.802667	3.402789	-0.930037
1	-2.333378	4.404345	0.867802
1	-2.176307	4.107241	-1.653225
7	1.924123	-0.070912	0.177053
6	2.902736	-0.106446	1.057388
6	3.848235	-0.140240	-0.930037
1	2.754211	-0.101389	2.127747
1	4.645129	-0.168883	-1.653225
1	4.980964	-0.181408	0.867802
7	-1.023473	-1.630883	0.177053
6	-1.543553	-2.460621	1.057388
1	-1.464911	-2.334523	2.127747
6	-2.045569	-3.262550	-0.930037

1	-2.647586	-4.222937	0.867802
1	-2.468821	-3.938358	-1.653225
7	-1.911036	3.607665	0.421338
7	-2.168812	-3.458838	0.421338
7	4.079847	-0.148827	0.421338
6	0.000000	0.000000	-4.741880
7	0.000000	0.000000	-3.592466
6	0.000000	0.000000	-6.189309
1	-1.024251	0.054688	-6.561397
1	0.559487	0.859684	-6.561397
1	0.464765	-0.914372	-6.561397
1	-1.010700	-1.610585	-1.968504
1	-0.889458	1.680585	-1.968504
1	1.900158	-0.069999	-1.968504
6	-1.327590	-2.116601	-1.070634
6	-1.169236	2.208027	-1.070634
6	2.496825	-0.091426	-1.070634
16	0.000000	0.000000	3.036297
6	0.000000	0.000000	4.849424
1	0.481504	-0.905923	5.214774
1	0.543801	0.869956	5.214774
1	-1.025305	0.035967	5.214774

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30	0.000000	0.000000	0.336752
7	-1.928399	-0.000107	-0.266733
6	-2.899786	-0.001842	0.622860
1	-2.740412	-0.003650	1.691763
6	-3.866364	0.001452	-1.354537
1	-4.981102	-0.001875	0.454178
1	-4.670730	0.002619	-2.070071
7	0.964107	1.670096	-0.266733
6	1.448298	2.512210	0.622860
6	1.934440	3.347644	-1.354537
1	1.367045	2.375091	1.691763
1	2.337633	4.043662	-2.070071
1	2.488927	4.314698	0.454178
7	0.964292	-1.669989	-0.266733
6	1.451488	-2.510368	0.622860
1	1.373367	-2.371441	1.691763
6	1.931924	-3.349096	-1.354537
1	2.492175	-4.312823	0.454178
1	2.333097	-4.046280	-2.070071
7	-4.083751	-0.000965	-0.001389
7	2.042711	-3.536150	-0.001389
7	2.041040	3.537114	-0.001389
9	0.000000	0.000000	-3.838559
1	0.000000	0.000000	-4.762166
1	0.969737	1.672486	-2.414498
1	0.963547	-1.676060	-2.414498
1	-1.933284	0.003574	-2.414498
6	1.256121	-2.179576	-1.507927
6	-2.515629	0.001955	-1.507927
6	1.259508	2.177621	-1.507927
16	0.000000	0.000000	2.589976
6	0.000000	0.000000	4.403673
1	-0.511669	-0.889470	4.768098
1	1.026138	0.001617	4.768098
1	-0.514469	0.887853	4.768098

50

30	0.000000	0.000000	0.575607
7	1.927757	-0.000180	-0.028797
6	2.901684	-0.000056	0.857793
1	2.745814	0.000613	1.927185
6	3.862005	-0.001346	-1.122782
1	4.982503	-0.000770	0.682517
1	4.664215	-0.001977	-1.840733
7	-0.964034	-1.669397	-0.028797
6	-1.450891	-2.512904	0.857793
6	-1.932168	-3.343922	-1.122782
1	-1.372376	-2.378251	1.927185
1	-2.333820	-4.038340	-1.840733
1	-2.491918	-4.314589	0.682517
7	-0.963723	1.669576	-0.028797
6	-1.450793	2.512960	0.857793
1	-1.373438	2.377638	1.927185

6	-1.929837	3.345268	-1.122782
1	-2.490585	4.315359	0.682517
1	-2.330395	4.040317	-1.840733
7	4.083748	-0.000716	0.229794
7	-2.041254	3.536987	0.229794
7	-2.042494	-3.536271	0.229794
9	0.000000	0.000000	-3.562795
1	-0.962967	-1.665577	-2.175832
1	-0.960948	1.666743	-2.175832
1	1.923915	-0.001166	-2.175832
6	-1.254500	2.174909	-1.272019
6	2.510776	-0.001026	-1.272019
6	-1.256277	-2.173883	-1.272019
6	0.000000	0.000000	-4.957967
1	0.515803	0.896663	-5.302721
1	0.518631	-0.895030	-5.302721
1	-1.034435	-0.001633	-5.302721
16	0.000000	0.000000	2.828131
6	0.000000	0.000000	4.641603
1	0.512985	0.888648	5.006334
1	-1.026085	-0.000066	5.006334
1	0.513099	-0.888582	5.006334

51

30	0.000000	0.000000	1.074601
7	1.870793	-0.316297	0.388286
6	2.890526	-0.491277	1.201280
1	2.817642	-0.481370	2.279112
6	3.692105	-0.622353	-0.845284
1	4.925046	-0.835798	0.871916
1	4.429966	-0.745649	-1.619563
7	-1.209317	-1.462005	0.388286
6	-1.870721	-2.257630	1.201280
6	-2.385026	-2.886280	-0.845284
1	-1.825700	-2.199464	2.279112
1	-2.860734	-3.463639	-1.619563
1	-3.186345	-3.847316	0.871916
7	-0.661475	1.778302	0.388286
6	-1.019804	2.748907	1.201280
1	-0.991942	2.680835	2.279112
6	-1.307079	3.508633	-0.845284
1	-1.738701	4.683114	0.871916
1	-1.569232	4.209287	-1.619563
7	4.008172	-0.679258	0.487538
7	-1.415831	3.810808	0.487538
7	-2.592341	-3.131550	0.487538
7	0.000000	0.000000	-3.728525
6	0.478137	-1.290323	-4.190214
1	1.488046	-1.475567	-3.817192
1	-0.169835	-2.088550	-3.820939
1	0.505591	-1.358538	-5.290038
6	-1.356521	0.231083	-4.190214
1	-2.021901	-0.550902	-3.817192
1	-1.723819	1.191357	-3.820939
1	-1.429324	0.241414	-5.290038
6	0.878384	1.059240	-4.190214
1	0.533856	2.026469	-3.817192
1	1.893655	0.897193	-3.820939
1	0.923733	1.117123	-5.290038
1	1.700364	-0.281927	-1.746457
1	-0.606026	1.613522	-1.746457
1	-1.094338	-1.331595	-1.746457
6	2.352204	-0.394859	-0.893993
6	-0.834144	2.234497	-0.893993
6	-1.518059	-1.839639	-0.893993
16	0.000000	0.000000	3.304072
6	0.000000	0.000000	5.116804
1	-1.011354	0.174917	5.480217
1	0.354194	-0.963317	5.480217
1	0.657160	0.788400	5.480217

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30	0.000000	0.000000	0.427199
7	1.552619	-1.289427	0.278188
6	2.173220	-1.812306	1.315048
1	1.901611	-1.592078	2.339745
6	3.158739	-2.621435	-0.480490

1	3.770293	-3.142567	1.490838
1	3.858464	-3.200107	-1.058509
7	-1.892986	-0.699894	0.278188
6	-2.656113	-0.975911	1.315048
6	-3.849599	-1.424831	-0.480490
1	-2.329585	-0.850804	2.339745
1	-4.700606	-1.741475	-1.058509
1	-4.606690	-1.693886	1.490838
7	0.340367	1.989321	0.278188
6	0.482893	2.788217	1.315048
1	0.427975	2.442882	2.339745
6	0.690860	4.046266	-0.480490
1	0.836396	4.836453	1.490838
1	0.842142	4.941581	-1.058509
7	3.151460	-2.623861	0.893197
7	0.696600	4.041175	0.893197
7	-3.848060	-1.417314	0.893197
1	-2.219095	-0.831046	-1.843678
1	0.389841	2.337316	-1.843678
1	1.829255	-1.506270	-1.843678
6	0.467525	2.759247	-0.854529
6	2.155815	-1.784512	-0.854529
6	-2.623340	-0.974735	-0.854529
9	0.000000	0.000000	-1.811331
9	-1.232039	-0.483138	-3.682107
9	1.034429	-0.825408	-3.682107
9	0.197610	1.308546	-3.682107
5	0.000000	0.000000	-3.277132
16	0.000000	0.000000	2.990864
6	0.000000	0.000000	4.806744
1	-0.778538	0.662461	5.189818
1	-0.184439	-1.005464	5.189818
1	0.962977	0.343003	5.189818

53

30	0.000000	0.000000	0.524564
7	2.022012	-0.001115	0.417991
6	2.816952	0.004571	1.468081
1	2.448737	0.009629	2.486821
6	4.121146	-0.005375	-0.306598
1	4.891957	0.005487	1.677819
1	5.038221	-0.008587	-0.870093
7	-1.011971	-1.750556	0.417991
6	-1.404517	-2.441838	1.468081
6	-2.065228	-3.566330	-0.306598
1	-1.216030	-2.125483	2.486821
1	-2.526547	-4.358934	-0.870093
1	-2.441227	-4.239303	1.677819
7	-1.010041	1.751671	0.417991
6	-1.412435	2.437266	1.468081
1	-1.232708	2.115854	2.486821
6	-2.055918	3.571705	-0.306598
1	-2.450730	4.233816	1.677819
1	-2.511674	4.367521	-0.870093
7	4.094546	0.002229	1.066786
7	-2.049204	3.544867	1.066786
7	-2.045343	-3.547096	1.066786
1	-1.215795	-2.080843	-1.697595
1	-1.194165	2.093331	-1.697595
1	2.409960	-0.012488	-1.697595
6	-1.404241	2.446887	-0.701347
6	2.821187	-0.007335	-0.701347
6	-1.416946	-2.439552	-0.701347
17	0.000000	0.000000	-3.203483
8	0.000000	0.000000	-1.733809
8	1.361341	-0.009761	-3.646680
8	-0.672217	1.183837	-3.646680
8	-0.689124	-1.174076	-3.646680
16	0.000000	0.000000	3.134278
6	0.000000	0.000000	4.951032
1	-1.022038	-0.006568	5.334954
1	0.516708	-0.881827	5.334954
1	0.505331	0.888395	5.334954

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30	0.000000	0.000000	1.147261
7	-1.909758	-0.079652	0.466171

6	-2.365667	-0.100063	-0.772338
1	-1.763343	-0.075824	-1.690633
6	-4.129763	-0.171848	0.555922
1	-4.286568	-0.180843	-1.568378
1	-5.170007	-0.214786	0.828782
7	1.023860	-1.614073	0.466171
6	1.269491	-1.998696	-0.772338
6	2.213706	-3.490555	0.555922
1	0.947337	-1.489188	-1.690633
1	2.771014	-4.369965	0.828782
1	2.299899	-3.621855	-1.568378
7	0.885899	1.693725	0.466171
6	1.096176	2.098759	-0.772338
1	0.816006	1.565012	-1.690633
6	1.916057	3.662403	0.555922
1	1.986669	3.802699	-1.568378
1	2.398994	4.584751	0.828782
7	-3.704869	-0.155719	-0.748832
7	1.717578	3.286370	-0.748832
7	1.987291	-3.130651	-0.748832
6	0.000000	0.000000	3.133795
7	0.000000	0.000000	4.290000
1	1.337466	2.551807	2.376629
6	1.391457	2.657797	1.304964
1	1.541197	-2.434183	2.376629
6	1.605992	-2.533936	1.304964
1	-2.878663	-0.117624	2.376629
6	-2.997448	-0.123862	1.304964
16	0.000000	0.000000	-3.169976
6	0.000000	0.000000	-4.983699
1	1.019128	0.053118	-5.375314
1	-0.463563	-0.909150	-5.375314
1	-0.555565	0.856032	-5.375314

55

30	0.000000	0.000000	-0.519844
7	-0.352402	1.938623	-0.179487
6	-0.465768	2.562972	0.976569
1	-0.375407	2.062972	1.947176
6	-0.740387	4.082566	-0.603314
1	-0.826428	4.554651	1.470392
1	-0.916325	5.055003	-1.029745
7	1.855098	-0.664122	-0.179487
6	2.452483	-0.878119	0.976569
6	3.905799	-1.400089	-0.603314
1	1.974290	-0.706374	1.947176
1	4.835924	-1.733941	-1.029745
1	4.357658	-1.561618	1.470392
7	-1.502696	-1.274501	-0.179487
6	-1.986715	-1.684853	0.976569
1	-1.598883	-1.356598	1.947176
6	-3.165412	-2.682477	-0.603314
1	-3.531230	-2.993033	1.470392
1	-3.919599	-3.321062	-1.029745
7	-0.700988	3.862958	0.752158
7	-2.994926	-2.538552	0.752158
7	3.695914	-1.324406	0.752158
6	0.000000	0.000000	-3.719328
7	0.000000	0.000000	-4.886802
1	-2.010156	-1.703648	-2.215266
6	-2.225488	-1.886294	-1.175166
1	2.480480	-0.889022	-2.215266
6	2.746322	-0.984182	-1.175166
1	-0.470324	2.592670	-2.215266
6	-0.520834	2.870476	-1.175166
8	0.000000	0.000000	-2.480220
16	0.000000	0.000000	3.053364
6	0.000000	0.000000	4.869255
1	-0.959066	0.348545	5.260642
1	0.177684	-1.004848	5.260642
1	0.781382	0.656303	5.260642

56

30	0.000000	0.000000	0.640505
7	0.985520	-1.707124	0.217281
6	1.437176	-2.479754	1.184502
1	1.315406	-2.259877	2.235694

6	1.990226	-3.454366	-0.710391
1	2.481071	-4.285701	1.186581
1	2.416600	-4.198050	-1.361281
7	-1.971173	0.000077	0.217281
6	-2.866118	-0.004754	1.184502
6	-3.986682	0.003597	-0.710391
1	-2.614814	-0.009237	2.235694
1	-4.843918	0.006188	-1.361281
1	-4.952061	-0.005821	1.186581
7	0.985653	1.707047	0.217281
6	1.428942	2.484508	1.184502
1	1.299408	2.269113	2.235694
6	1.996456	3.450769	-0.710391
1	2.470990	4.291521	1.186581
1	2.427318	4.191862	-1.361281
7	2.050968	-3.546486	0.658916
7	2.045863	3.549434	0.658916
7	-4.096831	-0.002947	0.658916
6	0.000000	0.000000	-4.817429
7	0.000000	0.000000	-5.981580
16	0.000000	0.000000	-3.159176
1	1.072573	1.839069	-1.925757
6	1.331936	2.296180	-0.977069
1	-2.128967	0.009341	-1.925757
6	-2.654518	0.005400	-0.977069
1	1.056394	-1.848410	-1.925757
6	1.322582	-2.301580	-0.977069
16	0.000000	0.000000	2.996416
6	0.000000	0.000000	4.809860
1	-0.506114	-0.890314	5.184298
1	1.024091	0.006849	5.184298
1	-0.517977	0.883465	5.184298

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30	0.000000	0.000000	0.673090
7	-1.444710	-1.185654	-0.151980
6	-1.484827	-2.488049	-0.220049
1	-0.681746	-3.156075	0.047746
6	-3.372988	-1.693920	-0.895888
1	-3.021059	-3.790139	-0.843833
1	-4.383137	-1.645957	-1.269967
7	-0.304451	1.843983	-0.151980
6	-1.412300	2.529922	-0.220049
6	0.219516	3.768054	-0.895888
1	-2.392368	2.168447	0.047746
1	0.766128	4.618886	-1.269967
1	-1.771827	4.511383	-0.843833
7	1.749162	-0.658329	-0.151980
6	2.897127	-0.041873	-0.220049
1	3.074114	0.987628	0.047746
6	3.153472	-2.074133	-0.895888
1	4.792886	-0.721244	-0.843833
1	3.617009	-2.972930	-1.269967
7	-2.691593	-2.850843	-0.689367
7	3.814699	-0.905567	-0.689367
7	-1.123106	3.756409	-0.689367
7	1.900746	-1.941281	-0.576531
7	-2.631572	-0.675454	-0.576531
7	0.730826	2.616735	-0.576531
8	0.000000	0.000000	-4.250177
6	0.000000	0.000000	-3.127665
16	0.000000	0.000000	2.850889
6	0.000000	0.000000	4.660119
1	0.185227	1.010600	5.020083
1	-0.967818	-0.344889	5.020083
1	0.782592	-0.665711	5.020083

58

30	0.000000	0.000000	0.946059
7	1.759017	-0.605080	0.106302
6	2.833585	0.103046	-0.103454
1	2.922091	1.166429	0.055442
6	3.237942	-1.952695	-0.616025
1	4.741371	-0.460872	-0.801994
1	3.759620	-2.838106	-0.941984
7	-1.403523	-1.220814	0.106302
6	-1.327551	-2.505479	-0.103454

6	-3.310055	-1.827792	-0.616025
1	-0.450889	-3.113820	0.055442
1	-4.337681	-1.836873	-0.941984
1	-2.769812	-3.875712	-0.801994
7	-0.355494	1.825894	0.106302
6	-1.506033	2.402433	-0.103454
1	-2.471203	1.947391	0.055442
6	0.072113	3.780488	-0.616025
1	-1.971559	4.336584	-0.801994
1	0.578062	4.674979	-0.941984
7	3.796910	-0.715547	-0.563611
7	-1.278774	3.645994	-0.563611
7	-2.518137	-2.930448	-0.563611
7	0.646018	2.685903	-0.215339
7	2.003051	-1.902420	-0.215339
7	-2.649070	-0.783483	-0.215339
6	0.000000	0.000000	-3.891301
7	0.000000	0.000000	-2.741675
6	0.000000	0.000000	-5.340667
1	0.660988	0.782827	-5.715798
1	0.347454	-0.963846	-5.715798
1	-1.008442	0.181019	-5.715798
16	0.000000	0.000000	3.125294
6	0.000000	0.000000	4.933654
1	0.826315	-0.610208	5.294788
1	0.115299	1.020714	5.294788
1	-0.941613	-0.410505	5.294788

59

30	0.000000	0.000000	0.560699
7	-0.329427	1.829891	-0.286476
6	-1.464334	2.453311	-0.444507
1	-2.440201	2.034128	-0.255811
6	0.145602	3.780640	-0.991196
1	-1.881110	4.414856	-1.095433
1	0.672773	4.661396	-1.321168
7	1.749446	-0.629654	-0.286476
6	2.856797	0.041495	-0.444507
6	3.201330	-2.016415	-0.991196
1	2.981708	1.096212	-0.255811
1	3.700501	-2.913337	-1.321168
1	4.763932	-0.578339	-1.095433
7	-1.420019	-1.200237	-0.286476
6	-1.392462	-2.494806	-0.444507
1	-0.541506	-3.130341	-0.255811
6	-3.346931	-1.764225	-0.991196
1	-2.882822	-3.836516	-1.095433
1	-4.373274	-1.748060	-1.321168
7	-1.206647	3.695195	-0.891947
7	-2.596809	-2.892584	-0.891947
7	3.803456	-0.802611	-0.891947
9	0.000000	0.000000	-2.982588
1	0.000000	0.000000	-3.903957
7	-2.648391	-0.729977	-0.629789
7	0.692017	2.658562	-0.629789
7	1.956373	-1.928585	-0.629789
16	0.000000	0.000000	2.735965
6	0.000000	0.000000	4.544742
1	0.801528	-0.642762	4.904906
1	0.155884	1.015524	4.904906
1	-0.957412	-0.372762	4.904906

60

30	0.000000	0.000000	0.764058
7	-1.816123	-0.393267	-0.086047
6	-2.397597	-1.549433	-0.248802
1	-1.947828	-2.509652	-0.050827
6	-3.770932	0.011748	-0.822568
1	-4.333548	-2.035933	-0.927608
1	-4.664297	0.507064	-1.167649
7	0.567482	1.769442	-0.086047
6	-0.143050	2.851097	-0.248802
6	1.895640	3.259849	-0.822568
1	-1.199509	2.941695	-0.050827
1	2.771279	3.785868	-1.167649
1	0.403604	4.770929	-0.927608
7	1.248641	-1.376175	-0.086047

6	2.540647	-1.301664	-0.248802
1	3.147337	-0.432042	-0.050827
6	1.875292	-3.271597	-0.822568
1	3.929944	-2.734996	-0.927608
1	1.893018	-4.292932	-1.167649
7	-3.640613	-1.336366	-0.716341
7	2.977633	-2.484680	-0.716341
7	0.662979	3.821046	-0.716341
9	0.000000	0.000000	-2.683519
7	0.819298	-2.614521	-0.446451
7	-2.673891	0.597728	-0.446451
7	1.854593	2.016793	-0.446451
6	0.000000	0.000000	-4.066801
1	-0.078678	-1.029789	-4.420820
1	-0.852485	0.583032	-4.420820
1	0.931163	0.446758	-4.420820
16	0.000000	0.000000	2.939297
6	0.000000	0.000000	4.748045
1	-1.020576	0.118308	5.108229
1	0.407830	-0.942999	5.108229
1	0.612746	0.824691	5.108229

61

30	0.000000	0.000000	0.667058
7	0.439063	1.881257	0.048736
6	0.551808	2.369994	-1.164412
1	0.416923	1.792884	-2.100773
6	0.919336	3.943824	0.279434
1	1.003514	4.312623	-1.814962
1	1.145343	4.913254	0.694146
7	-1.848748	-0.560389	0.048736
6	-2.328379	-0.707117	-1.164412
6	-3.875120	-1.175744	0.279434
1	-1.761145	-0.535377	-2.100773
1	-4.827674	-1.464730	0.694146
1	-4.236598	-1.287242	-1.814962
7	1.409685	-1.320868	0.048736
6	1.776571	-1.662876	-1.164412
1	1.344222	-1.257508	-2.100773
6	2.955784	-2.768080	0.279434
1	3.233084	-3.025380	-1.814962
1	3.682331	-3.448523	0.694146
7	0.855213	3.673156	-1.050666
7	2.753440	-2.577214	-1.050666
7	-3.608652	-1.095942	-1.050666
7	2.150627	-2.015272	0.963459
7	0.669963	2.870133	0.963459
7	-2.820590	-0.854861	0.963459
7	0.000000	0.000000	2.729423
6	-1.013202	0.949860	3.221217
1	-0.774890	1.949518	2.859650
1	-1.995309	0.648044	2.858956
1	-1.020872	0.956515	4.317129
6	-0.316002	-1.352389	3.221217
1	-1.300887	-1.645833	2.859650
1	0.436432	-2.052010	2.858956
1	-0.317930	-1.362358	4.317129
6	1.329204	0.402528	3.221217
1	2.075777	-0.303685	2.859650
1	1.558877	1.403966	2.858956
1	1.338802	0.405843	4.317129
16	0.000000	0.000000	-3.332881
6	0.000000	0.000000	-5.147759
1	0.977146	0.298276	-5.530636
1	-0.230258	-0.995372	-5.530636
1	-0.746888	0.697095	-5.530636

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30	0.000000	0.000000	1.693304
7	1.782880	-0.219225	0.606864
6	2.163668	0.585081	-0.349832
1	1.844057	1.605318	-0.471665
6	3.085014	-1.326579	-0.671211
1	3.267074	0.244964	-2.091677
1	3.675640	-2.112125	-1.114201
7	-1.081294	-1.434407	0.606864
6	-0.575139	-2.166332	-0.349832

6	-2.691358	-2.008411	-0.671211
1	0.468218	-2.399659	-0.471665
1	-3.666973	-2.127135	-1.114201
1	-1.421392	-2.951851	-2.091677
7	-0.701586	1.653632	0.606864
6	-1.588529	1.581251	-0.349832
1	-2.312275	0.794341	-0.471665
6	-0.393656	3.334990	-0.671211
1	-1.845682	2.706887	-2.091677
1	-0.008666	4.239260	-1.114201
7	2.994377	-0.069117	-1.172604
7	-1.437331	2.627765	-1.172604
7	-1.557046	-2.558648	-1.172604
9	0.000000	0.000000	-1.826534
7	0.058193	2.771729	0.409790
7	2.371291	-1.436261	0.409790
7	-2.429484	-1.335468	0.409790
5	0.000000	0.000000	-3.245631
9	-0.447948	-1.252996	-3.673877
9	1.309100	0.238564	-3.673877
9	-0.861152	1.014432	-3.673877
16	0.000000	0.000000	3.856893
6	0.000000	0.000000	5.660763
1	-0.748724	-0.702893	6.024671
1	0.983085	-0.296967	6.024671
1	-0.234362	0.999860	6.024671

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30	0.000000	0.000000	1.806770
7	1.804374	-0.047900	0.740165
6	2.154907	0.845066	-0.146926
1	1.771851	1.850205	-0.200072
6	3.189999	-0.983997	-0.585766
1	3.321111	0.694446	-1.878068
1	3.829959	-1.701096	-1.073741
7	-0.943670	-1.538683	0.740165
6	-0.345605	-2.288738	-0.146926
6	-2.447166	-2.270622	-0.585766
1	0.716399	-2.459570	-0.200072
1	-3.388172	-2.466294	-1.073741
1	-1.059148	-3.223389	-1.878068
7	-0.860704	1.586584	0.740165
6	-1.809302	1.443672	-0.146926
1	-2.488250	0.609365	-0.200072
6	-0.742833	3.254619	-0.585766
1	-2.261963	2.528943	-1.878068
1	-0.441787	4.167390	-1.073741
7	3.038424	0.300052	-0.994446
7	-1.779065	2.481326	-0.994446
7	-1.259359	-2.781378	-0.994446
7	-0.183553	2.740682	0.468707
7	2.465277	-1.211380	0.468707
7	-2.281724	-1.529302	0.468707
8	0.000000	0.000000	-1.676716
8	-0.295856	-1.331603	-3.588822
8	1.301130	0.409582	-3.588822
8	-1.005274	0.922021	-3.588822
17	0.000000	0.000000	-3.129372
16	0.000000	0.000000	3.974153
6	0.000000	0.000000	5.778190
1	-0.362618	0.960698	6.142410
1	-0.650680	-0.794386	6.142410
1	1.013298	-0.166313	6.142410

64

30	0.000000	0.000000	1.136026
7	-0.384986	1.723513	0.034960
6	-1.177265	1.774699	-1.003424
1	-1.904544	1.036265	-1.284855
6	0.079256	3.520820	-1.012924
1	-1.309565	3.139849	-2.583620
1	0.520190	4.457653	-1.313028
7	1.685099	-0.528349	0.034960
6	2.125566	0.132192	-1.003424
6	3.009492	-1.829047	-1.012924
1	1.849703	1.131251	-1.284855
1	3.600346	-2.679324	-1.313028

1	3.373971	-0.435808	-2.583620
7	-1.300113	-1.195164	0.034960
6	-0.948302	-1.906890	-1.003424
1	0.054840	-2.167516	-1.284855
6	-3.088747	-1.691772	-1.012924
1	-2.064407	-2.704041	-2.583620
1	-4.120536	-1.778329	-1.313028
7	-0.933625	2.906822	-1.679447
7	-2.050569	-2.261954	-1.679447
7	2.984194	-0.644868	-1.679447
7	-2.657601	-1.048110	0.029572
7	0.421111	2.825605	0.029572
7	2.236490	-1.777495	0.029572
6	0.000000	0.000000	-3.074585
7	0.000000	0.000000	-4.240759
16	0.000000	0.000000	3.299175
6	0.000000	0.000000	5.102665
1	-0.930901	-0.433467	5.467084
1	0.840844	-0.589450	5.467084
1	0.090057	1.022917	5.467084

65

30	0.000000	0.000000	1.260044
7	-1.011645	-1.475970	0.200490
6	-0.468320	-2.232384	-0.714244
1	0.587669	-2.386515	-0.853311
6	-2.604614	-2.290416	-0.959099
1	-1.313681	-3.338802	-2.285135
1	-3.579659	-2.534182	-1.348789
7	-0.772405	1.614095	0.200490
6	-1.699141	1.521769	-0.714244
6	-0.681251	3.400870	-0.959099
1	-2.360618	0.684321	-0.853311
1	-0.404836	4.367167	-1.348789
1	-2.234647	2.807082	-2.285135
7	1.784050	-0.138126	0.200490
6	2.167461	0.710615	-0.714244
1	1.772948	1.702194	-0.853311
6	3.285866	-1.110454	-0.959099
1	3.548328	0.531720	-2.285135
1	3.984495	-1.832985	-1.348789
7	-1.440872	-2.783334	-1.455814
7	3.130875	0.143835	-1.455814
7	-1.690002	2.639499	-1.455814
7	2.485566	-1.297904	0.046612
7	-2.366801	-1.503611	0.046612
7	-0.118765	2.801515	0.046612
8	0.000000	0.000000	-2.269190
6	0.000000	0.000000	-3.501843
7	0.000000	0.000000	-4.678462
16	0.000000	0.000000	3.429909
6	0.000000	0.000000	5.233792
1	-0.774883	-0.673589	5.598679
1	0.970787	-0.334274	5.598679
1	-0.195904	1.007863	5.598679

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30	0.000000	0.000000	1.397914
7	0.485449	1.730697	0.366315
6	-0.326698	2.421122	-0.388436
1	-1.397734	2.301645	-0.420184
6	1.690384	3.051418	-0.792268
1	0.047880	3.873147	-1.856954
1	2.526796	3.573841	-1.226967
7	1.256104	-1.285759	0.366315
6	2.260102	-0.927632	-0.388436
6	1.797414	-2.989624	-0.792268
1	2.692150	0.059650	-0.420184
1	1.831639	-3.975190	-1.226967
1	3.330304	-1.978039	-1.856954
7	-1.741552	-0.444938	0.366315
6	-1.933404	-1.493490	-0.388436
1	-1.294416	-2.361296	-0.420184
6	-3.487798	-0.061794	-0.792268
1	-3.378184	-1.895108	-1.856954
1	-4.358435	0.401349	-1.226967
7	0.394907	3.285688	-1.117881

7	-3.042943	-1.300845	-1.117881
7	2.648036	-1.984844	-1.117881
7	-2.721782	0.467338	0.112779
7	1.765618	2.123464	0.112779
7	0.956165	-2.590802	0.112779
6	0.000000	0.000000	-4.198216
7	0.000000	0.000000	-5.363642
16	0.000000	0.000000	-2.538989
16	0.000000	0.000000	3.570670
6	0.000000	0.000000	5.375058
1	0.483718	0.905620	5.739874
1	-1.026149	-0.033898	5.739874
1	0.542431	-0.871722	5.739874