

Electronic Supplementary Material for

Insights into Crystal Structure Prediction and Crystal Engineering: A Focus on the Synthon modularity in the Pomalidomide polymorphs and its co-crystals

Zahrasadat Momenzadeh Abardeh,^{a,b} Alireza Salimi,^a and Artem R. Oganov^b

^aDepartment of Chemistry, Faculty of Science, Ferdowsi University of Mashhad, Mashhad, Iran. E-mail: salimi-a@um.ac.ir

^bSkolkovo Institute of Science and Technology, Skolkovo Innovation Center, Moscow 143026, Russian Federation. E-mail: A.Oganov@skoltech.ru

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- Conformational States Search

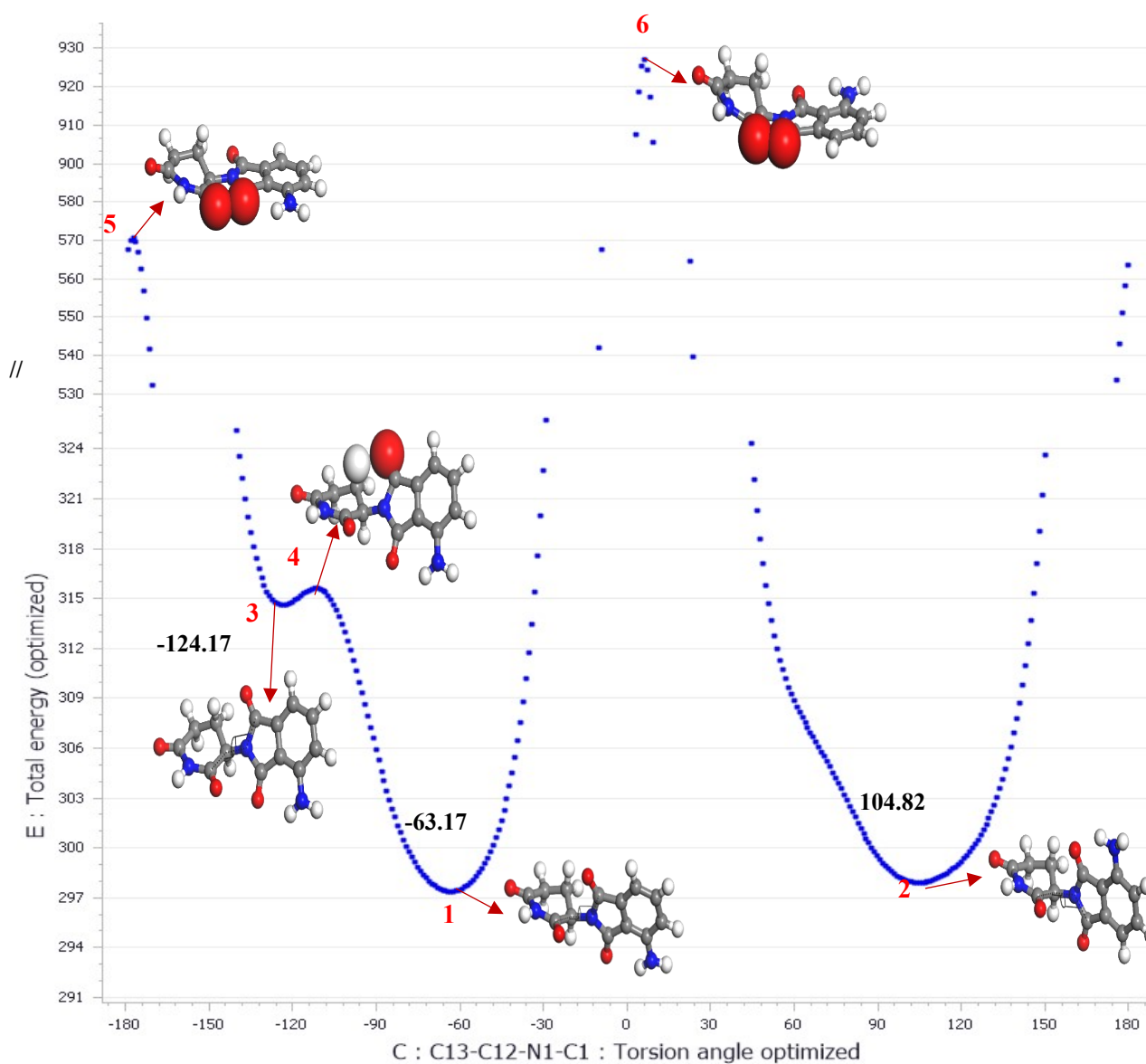


Fig. S 1. Torsion angle (C13-C12-N1-C1) vs. energy profile of pomalidomide showing three stable conformers (1-3). Conformer 2 was used for CSP calculations.

Table S 1. Relative energies (kJ mol⁻¹) and torsion angles (°) of pomalidomide conformers computed at B3LYP/6-311G(p,d) level.

Name	Torsion	E-relative
Cofm1	-63.17	0.00
Cofm2	104.82	0.37
Cofm3	-124.17	62.63

- CSD analysis

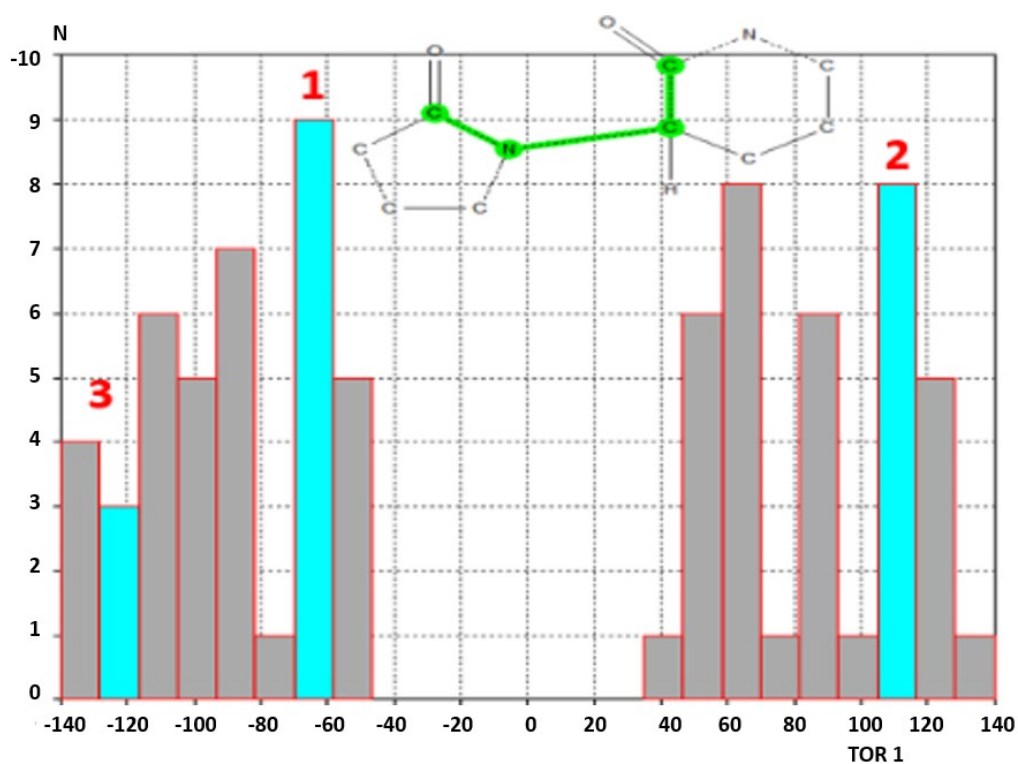


Fig. S 2. CSD histogram of C13-C12-N1-C1 torsion angles in thalidomide analogs. Blue bars highlight conformers matching pomalidomide's calculated minima (Fig. S1). Inset shows search fragment.

- Synthon modularity in the thalidomide derivatives

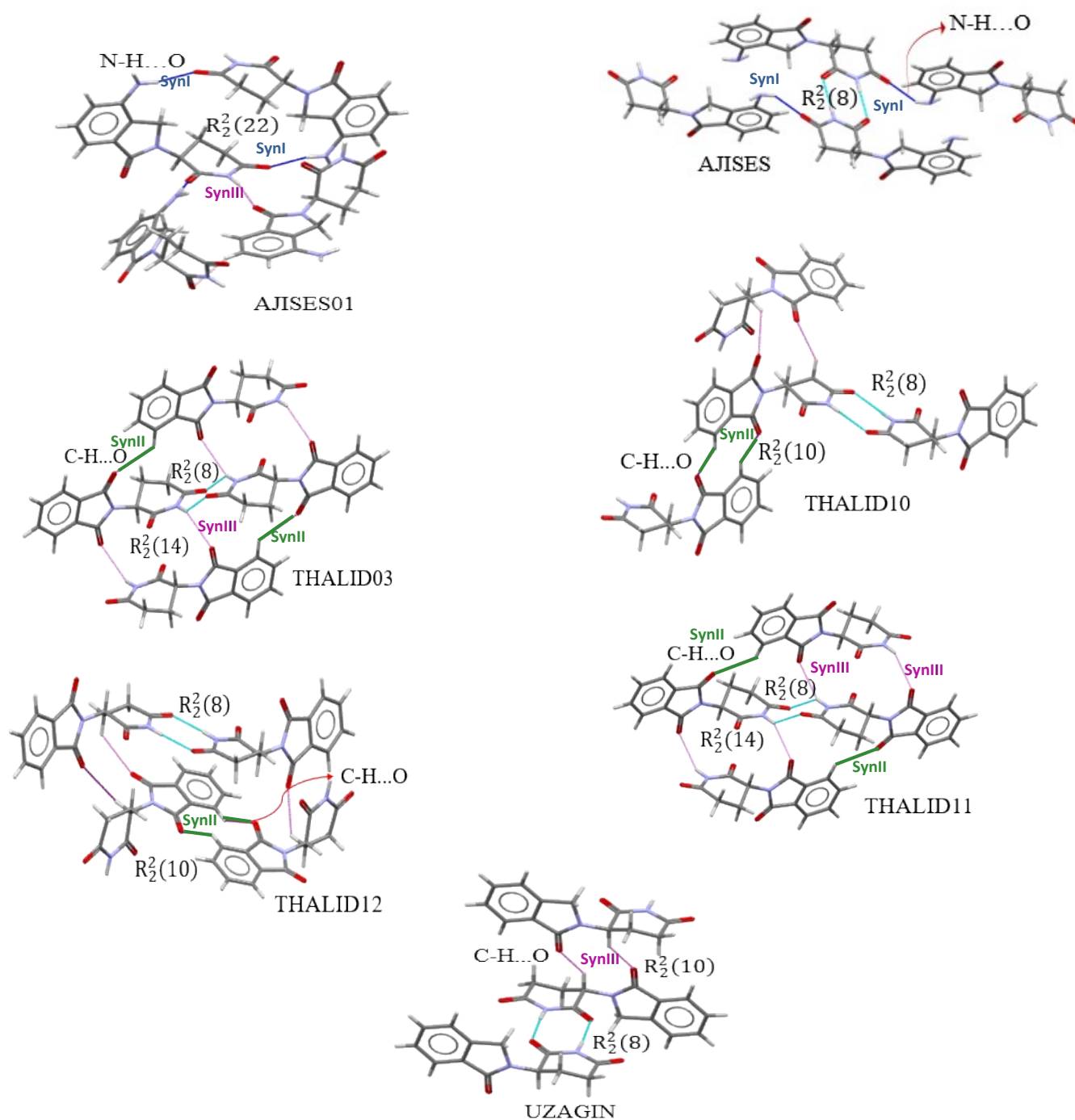


Fig. S 3. Display of synthon modularity in the experimental crystal structures of thalidomide derivatives.

Table S 2 The list of the generated structures of pomalidomide, the structures were optimized by the PBE-D3 method

Rank	ID	Z	lattice energy (ev)	Volume, Å ³	Density, g/cm ³	E/M	Volume/M	Space group	lattice energy/M (kJ.mol ⁻¹)	Relative energy (ΔE, kJ.mol ⁻¹)
1	163	2	-427.66	601.74	1.51	-213.83	300.87	2	-20631.6	0.00
2	143	2	-427.66	574.43	1.58	-213.83	287.22	2	-20631.55	0.05
3	135	2	-427.65	598.31	1.52	-213.83	299.16	2	-20631.16	0.43
4	129	2	-427.65	589.31	1.54	-213.83	294.66	2	-20631.07	0.53
5	100	2	-427.64	571.39	1.59	-213.82	285.69	2	-20630.59	1.01
6	87	2	-427.64	591.54	1.53	-213.82	295.77	2	-20630.49	1.11
7	136	2	-427.63	598.54	1.52	-213.81	299.27	2	-20629.96	1.64
8	145	8	-1710.42	2487.3	1.46	-213.8	310.91	61	-20628.79	2.81
9	74	4	-855.21	1188.17	1.53	-213.8	297.04	14	-20628.7	2.89
10	112	2	-427.6	581.64	1.56	-213.8	290.82	2	-20628.66	2.94
11	150	2	-427.6	591.24	1.54	-213.8	295.62	4	-20628.51	3.09
12	52	4	-855.19	1203.73	1.51	-213.8	300.93	14	-20628.27	3.33
13	57	4	-855.18	1206.57	1.5	-213.8	301.64	14	-20628.15	3.45
14	91	8	-1710.37	2332.04	1.56	-213.8	291.51	15	-20628.15	3.45
15	124	2	-427.59	592.78	1.53	-213.8	296.39	2	-20628.12	3.47
16	29	4	-855.18	1257.51	1.44	-213.79	314.38	14	-20627.98	3.62
17	11	8	-1710.34	2354.74	1.54	-213.79	294.34	15	-20627.78	3.82
18	5	8	-1710.33	2348.99	1.55	-213.79	293.62	15	-20627.73	3.87
19	60	8	-1710.31	2375.57	1.53	-213.79	296.95	61	-20627.5	4.1
20	32	4	-855.15	1216.61	1.49	-213.79	304.15	14	-20627.26	4.34
21	51	4	-855.14	1212.49	1.5	-213.79	303.12	14	-20627.11	4.49
22	72	4	-855.13	1189.13	1.53	-213.78	297.28	19	-20626.75	4.85
23	44	4	-855.06	1189.79	1.53	-213.77	297.45	14	-20625.23	6.37
24	12	8	-1710.11	2360.73	1.54	-213.76	295.09	15	-20625.04	6.56
25	48	4	-855.05	1206.44	1.5	-213.76	301.61	14	-20625.04	6.56
26	182	8	-1710.1	2392.09	1.52	-213.76	299.01	61	-20624.99	6.61
27	119	2	-427.52	583.28	1.56	-213.76	291.64	2	-20624.89	6.71
28	97	2	-427.52	609.52	1.49	-213.76	304.76	2	-20624.75	6.85
29	73	8	-1710.06	2396.96	1.51	-213.76	299.62	15	-20624.51	7.09
30	123	2	-427.5	592.85	1.53	-213.75	296.42	2	-20623.83	7.77
31	94	2	-427.5	600.28	1.51	-213.75	300.14	2	-20623.69	7.91
32	18	8	-1709.96	2498.18	1.45	-213.75	312.27	60	-20623.29	8.31
33	165	2	-427.49	607.1	1.5	-213.74	303.55	4	-20623.16	8.44
34	22	8	-1709.91	2435.97	1.49	-213.74	304.5	15	-20622.69	8.91
35	13	8	-1709.91	2313.54	1.57	-213.74	289.19	60	-20622.64	8.96
36	127	2	-427.47	611.93	1.48	-213.74	305.97	2	-20622.43	9.17
37	128	2	-427.47	574.87	1.58	-213.74	287.43	2	-20622.29	9.31
38	71	4	-854.94	1193.48	1.52	-213.73	298.37	14	-20622.19	9.41
39	137	2	-427.47	610.67	1.49	-213.73	305.33	2	-20622.19	9.41
40	175	4	-854.93	1232.19	1.47	-213.73	308.05	14	-20622.09	9.5
41	194	8	-1709.86	2457.08	1.48	-213.73	307.14	61	-20622.03	9.56
42	84	2	-427.46	611.15	1.49	-213.73	305.57	2	-20622	9.6
43	130	2	-427.46	600.18	1.51	-213.73	300.09	2	-20621.56	10.03
44	62	4	-854.9	1197.93	1.52	-213.73	299.48	14	-20621.42	10.18
45	15	8	-1709.8	2513.34	1.44	-213.72	314.17	61	-20621.27	10.32
46	111	2	-427.45	594.68	1.53	-213.72	297.34	2	-20621.27	10.32
47	193	8	-1709.78	2471.01	1.47	-213.72	308.88	61	-20621.12	10.48
48	24	4	-854.89	1209.71	1.5	-213.72	302.43	14	-20621.06	10.54
49	178	4	-854.88	1190.82	1.52	-213.72	297.71	14	-20620.89	10.71
50	105	2	-427.44	596.47	1.52	-213.72	298.23	2	-20620.79	10.81
51	1	8	-1709.68	2535.72	1.43	-213.71	316.97	15	-20619.84	11.76
52	161	2	-427.42	600.59	1.51	-213.71	300.3	2	-20619.68	11.92
53	99	2	-427.41	611.03	1.49	-213.71	305.52	2	-20619.49	12.11
54	83	2	-427.41	589.74	1.54	-213.7	294.87	2	-20619.25	12.35
55	156	2	-427.4	631.68	1.44	-213.7	315.84	2	-20618.86	12.74

56	146	8	-1709.58	2395.19	1.52	-213.7	299.4	61	-20618.66	12.94
57	67	4	-854.79	1191.87	1.52	-213.7	297.97	14	-20618.65	12.95
58	27	4	-854.78	1209.64	1.5	-213.7	302.41	14	-20618.52	13.07
59	157	2	-427.39	585.39	1.55	-213.7	292.7	2	-20618.48	13.12
60	164	2	-427.37	573.6	1.58	-213.69	286.8	2	-20617.51	14.09
61	58	4	-854.74	1251.51	1.45	-213.68	312.88	14	-20617.39	14.21
62	7	8	-1709.46	2498.75	1.45	-213.68	312.34	15	-20617.27	14.33
63	36	4	-854.73	1181.49	1.54	-213.68	295.37	14	-20617.17	14.42
64	45	4	-854.72	1323.67	1.37	-213.68	330.92	14	-20617.05	14.55
65	188	8	-1709.44	2596.98	1.4	-213.68	324.62	15	-20616.96	14.64
66	65	8	-1709.43	2439.28	1.49	-213.68	304.91	61	-20616.8	14.8
67	23	8	-1709.41	2439.35	1.49	-213.68	304.92	61	-20616.58	15.02
68	30	8	-1709.4	2434.14	1.49	-213.67	304.27	61	-20616.47	15.12
69	110	2	-427.35	609.92	1.49	-213.67	304.96	2	-20616.45	15.15
70	64	4	-854.7	1247.88	1.45	-213.67	311.97	14	-20616.4	15.2
71	153	4	-854.69	1252.83	1.45	-213.67	313.21	5	-20616.16	15.44
72	190	8	-1709.36	2611.34	1.39	-213.67	326.42	15	-20615.99	15.61
73	90	2	-427.34	611.35	1.48	-213.67	305.68	2	-20615.87	15.73
74	93	2	-427.33	613.15	1.48	-213.67	306.58	2	-20615.68	15.92
75	121	2	-427.32	615.4	1.48	-213.66	307.7	2	-20615.24	16.35
76	139	2	-427.32	589.87	1.54	-213.66	294.94	2	-20615.2	16.4
77	132	2	-427.31	615.74	1.47	-213.66	307.87	2	-20614.71	16.88
78	86	2	-427.31	636.54	1.43	-213.66	318.27	2	-20614.67	16.93
79	38	4	-854.62	1267.29	1.43	-213.66	316.82	14	-20614.59	17.01
80	10	8	-1709.24	2525.1	1.44	-213.65	315.64	61	-20614.53	17.07
81	102	2	-427.3	631.58	1.44	-213.65	315.79	2	-20614.18	17.42
82	4	8	-1709.18	2467.27	1.47	-213.65	308.41	15	-20613.82	17.78
83	183	8	-1709.18	2524.5	1.44	-213.65	315.56	61	-20613.82	17.78
84	40	4	-854.58	1187.44	1.53	-213.64	296.86	14	-20613.56	18.04
85	69	4	-854.56	1261.39	1.44	-213.64	315.35	14	-20613.07	18.53
86	63	4	-854.54	1313.99	1.38	-213.63	328.5	14	-20612.59	19.01
87	162	2	-427.26	672.43	1.35	-213.63	336.21	2	-20612.06	19.54
88	88	2	-427.25	603.21	1.5	-213.62	301.6	2	-20611.63	19.97
89	26	8	-1708.99	2397.73	1.51	-213.62	299.72	61	-20611.54	20.06
90	103	4	-854.48	1204.34	1.51	-213.62	301.08	14	-20611.29	20.31
91	107	4	-854.48	1157.12	1.57	-213.62	289.28	14	-20611.14	20.45
92	144	2	-427.24	598.81	1.52	-213.62	299.4	4	-20611.14	20.45
93	177	4	-854.47	1142.52	1.59	-213.62	285.63	19	-20611	20.6
94	70	4	-854.47	1362.01	1.33	-213.62	340.5	29	-20610.9	20.7
95	147	2	-427.23	619.04	1.47	-213.62	309.52	2	-20610.81	20.79
96	189	8	-1708.91	2365.47	1.54	-213.61	295.68	19	-20610.64	20.96
97	141	2	-427.22	655.36	1.39	-213.61	327.68	2	-20610.23	21.37
98	50	4	-854.44	1206.42	1.5	-213.61	301.6	14	-20610.2	21.4
99	37	8	-1708.87	2601.25	1.4	-213.61	325.16	61	-20610.13	21.47
100	155	2	-427.22	623.62	1.46	-213.61	311.81	4	-20610.03	21.56
101	16	8	-1708.82	2535.34	1.43	-213.6	316.92	61	-20609.47	22.13
102	8	8	-1708.81	2511.47	1.45	-213.6	313.93	60	-20609.33	22.26
103	181	8	-1708.8	2599.05	1.4	-213.6	324.88	61	-20609.29	22.31
104	152	8	-1708.76	2669.76	1.36	-213.59	333.72	61	-20608.76	22.84
105	149	2	-427.19	626.03	1.45	-213.59	313.01	2	-20608.73	22.87
106	2	8	-1708.73	2465.95	1.47	-213.59	308.24	15	-20608.38	23.22
107	25	8	-1708.71	2624.94	1.38	-213.59	328.12	15	-20608.16	23.43
108	159	2	-427.18	638.92	1.42	-213.59	319.46	4	-20608.1	23.49
109	75	4	-854.35	1208.43	1.5	-213.59	302.11	14	-20608.03	23.57
110	142	2	-427.17	646.87	1.4	-213.59	323.43	2	-20607.96	23.64
111	82	2	-427.17	682.25	1.33	-213.59	341.13	2	-20607.86	23.74
112	81	4	-854.31	1198.45	1.51	-213.58	299.61	19	-20607.19	24.41
113	28	4	-854.3	1274.58	1.42	-213.58	318.64	14	-20606.9	24.7

114	80	4	-854.3	1254.16	1.45	-213.57	313.54	19	-20606.8	24.8
115	19	8	-1708.59	2516.69	1.44	-213.57	314.59	45	-20606.74	24.86
116	195	8	-1708.59	2654.95	1.37	-213.57	331.87	15	-20606.72	24.88
117	3	8	-1708.57	2611.29	1.39	-213.57	326.41	15	-20606.5	25.1
118	55	4	-854.28	1278.21	1.42	-213.57	319.55	14	-20606.44	25.16
119	77	2	-427.14	660.25	1.37	-213.57	330.12	2	-20606.17	25.42
120	41	4	-854.27	1299.81	1.4	-213.57	324.95	14	-20606.13	25.47
121	14	8	-1708.54	2451.58	1.48	-213.57	306.45	61	-20606.08	25.52
122	54	4	-854.26	1214.54	1.49	-213.57	303.64	14	-20605.93	25.67
123	185	4	-854.26	1287.64	1.41	-213.57	321.91	19	-20605.91	25.69
124	9	8	-1708.52	2418.41	1.5	-213.56	302.3	61	-20605.85	25.75
125	126	2	-427.11	593.1	1.53	-213.56	296.55	2	-20605.02	26.58
126	85	4	-854.22	1219.26	1.49	-213.56	304.81	19	-20604.94	26.65
127	191	8	-1708.41	2362.5	1.54	-213.55	295.31	15	-20604.61	26.99
128	89	2	-427.1	647.29	1.4	-213.55	323.64	2	-20604.53	27.06
129	46	4	-854.2	1236.63	1.47	-213.55	309.16	14	-20604.44	27.16
130	187	4	-854.19	1302.7	1.39	-213.55	325.68	19	-20604.08	27.52
131	39	4	-854.18	1244.31	1.46	-213.54	311.08	14	-20603.93	27.67
132	192	8	-1708.35	2552.62	1.42	-213.54	319.08	15	-20603.88	27.72
133	109	2	-427.08	602.98	1.51	-213.54	301.49	2	-20603.67	27.93
134	35	4	-854.16	1297.59	1.4	-213.54	324.4	14	-20603.5	28.1
135	79	8	-1708.31	2547.61	1.43	-213.54	318.45	61	-20603.34	28.26
136	42	4	-854.15	1271.08	1.43	-213.54	317.77	14	-20603.28	28.32
137	154	2	-427.08	672.6	1.35	-213.54	336.3	4	-20603.28	28.32
138	43	4	-854.14	1185.89	1.53	-213.54	296.47	14	-20603.06	28.54
139	114	2	-427.07	653.56	1.39	-213.54	326.78	2	-20602.99	28.61
140	125	2	-427.05	670.07	1.35	-213.53	335.04	2	-20602.17	29.43
141	98	4	-854.1	1206.74	1.5	-213.52	301.68	19	-20602	29.6
142	56	4	-854.09	1297.36	1.4	-213.52	324.34	14	-20601.88	29.72
143	76	2	-427.05	648.79	1.4	-213.52	324.39	2	-20601.88	29.72
144	174	4	-854.09	1312.59	1.38	-213.52	328.15	14	-20601.78	29.81
145	33	8	-1708.13	2493.11	1.46	-213.52	311.64	61	-20601.22	30.38
146	92	4	-854.06	1311.97	1.38	-213.52	327.99	19	-20601.06	30.54
147	53	4	-854.06	1299.76	1.4	-213.51	324.94	14	-20601.04	30.56
148	158	2	-427.02	645.66	1.41	-213.51	322.83	2	-20600.77	30.83
149	179	4	-854.02	1275.01	1.42	-213.51	318.75	14	-20600.14	31.45
150	180	8	-1708	2619.97	1.39	-213.5	327.5	61	-20599.63	31.97
151	133	2	-427	618.68	1.47	-213.5	309.34	2	-20599.47	32.13
152	170	2	-427	618.68	1.47	-213.5	309.34	2	-20599.37	32.23
153	47	4	-853.99	1334.36	1.36	-213.5	333.59	14	-20599.3	32.3
154	95	2	-426.99	698.26	1.3	-213.49	349.13	2	-20599.08	32.52
155	116	2	-426.99	685.58	1.32	-213.49	342.79	2	-20599.03	32.56
156	78	2	-426.98	656.57	1.38	-213.49	328.28	2	-20598.7	32.9
157	120	2	-426.98	695.83	1.3	-213.49	347.92	2	-20598.65	32.95
158	59	8	-1707.91	2589.43	1.4	-213.49	323.68	61	-20598.54	33.06
159	96	2	-426.97	668.12	1.36	-213.49	334.06	2	-20598.21	33.38
160	169	2	-426.97	630.91	1.44	-213.48	315.45	4	-20597.97	33.63
161	166	2	-426.96	593.07	1.53	-213.48	296.54	4	-20597.83	33.77
162	117	2	-426.96	686.74	1.32	-213.48	343.37	2	-20597.78	33.82
163	68	4	-853.9	1296.69	1.4	-213.48	324.17	14	-20597.25	34.35
164	173	2	-426.94	602.05	1.51	-213.47	301.02	2	-20596.82	34.78
165	34	8	-1707.75	2735.8	1.33	-213.47	341.97	61	-20596.6	35
166	101	2	-426.93	643.93	1.41	-213.47	321.96	2	-20596.38	35.22
167	168	2	-426.93	636.32	1.43	-213.47	318.16	4	-20596.33	35.27
168	118	2	-426.92	661.14	1.37	-213.46	330.57	2	-20595.95	35.65
169	176	8	-1707.66	2644.69	1.37	-213.46	330.59	61	-20595.56	36.04
170	106	2	-426.91	638.1	1.42	-213.45	319.05	2	-20595.08	36.52
171	115	2	-426.9	651.81	1.39	-213.45	325.91	2	-20594.84	36.76

172	184	4	-853.8	1322.76	1.37	-213.45	330.69	14	-20594.72	36.88
173	171	2	-426.89	623.99	1.45	-213.45	312	2	-20594.4	37.2
174	186	4	-853.78	1215.95	1.49	-213.44	303.99	19	-20594.23	37.36
175	66	4	-853.77	1336.19	1.36	-213.44	334.05	14	-20594.09	37.51
176	140	2	-426.88	668.08	1.36	-213.44	334.04	2	-20593.92	37.68
177	6	8	-1707.47	2556.81	1.42	-213.43	319.6	15	-20593.25	38.35
178	31	8	-1707.44	2667.71	1.36	-213.43	333.46	61	-20592.91	38.69
179	151	2	-426.8	618.58	1.47	-213.4	309.29	4	-20589.96	41.63
180	148	2	-426.8	663.41	1.37	-213.4	331.71	2	-20589.92	41.68
181	49	4	-853.59	1345.1	1.35	-213.4	336.27	14	-20589.72	41.87
182	138	2	-426.78	667.92	1.36	-213.39	333.96	2	-20589.19	42.41
183	61	4	-853.57	1311.66	1.38	-213.39	327.91	14	-20589.17	42.43
184	21	8	-1707.09	2649.71	1.37	-213.39	331.21	15	-20588.65	42.95
185	113	4	-853.54	1276.05	1.42	-213.38	319.01	5	-20588.49	43.1
186	160	4	-853.52	1254.65	1.45	-213.38	313.66	19	-20588.01	43.59
187	172	2	-426.73	617.76	1.47	-213.37	308.88	4	-20586.68	44.91
188	134	2	-426.73	699.09	1.3	-213.37	349.54	2	-20586.59	45.01
189	167	2	-426.72	590.18	1.54	-213.36	295.09	2	-20586.01	45.59
190	122	2	-426.67	687.86	1.32	-213.34	343.93	2	-20583.69	47.9
191	17	4	-853.31	1302.13	1.39	-213.33	325.53	14	-20582.99	48.6
192	20	4	-853.13	1318.61	1.38	-213.28	329.65	14	-20578.72	52.87
193	131	4	-853.13	1398.77	1.3	-213.28	349.69	5	-20578.7	52.9
194	104	4	-852.89	1372.01	1.32	-213.22	343	18	-20572.84	58.76
195	108	4	-852.85	1492.54	1.22	-213.21	373.14	5	-20571.85	59.75

Table S 3. The list of the generated co-crystal structures of pomalidomide with urea, ranked by ΔH . Gibbs free energies of formation (ΔG) were computed using a hybrid DFT (VASP, PBE-D3) and vibrational correction (GULP, GFN-FF).

Rank-dh	Z1	Z2	lattice energy (ev)	Volume, Å ³	Density, g/cm ³	Space group	composition	Estatic (GULP)	Helmholtz (GULP)	G_cocrystal	G-1	G-2	G_form (kJ/mol)	dh
1	4	4	-1051.50	1497.99	1.48	14	0.50	-848.71	-820.26	-1023.05	-	-47.28	-9.10	0.00
2	2	4	-623.63	920.59	1.42	2	0.33	-501.02	-483.62	-606.23	208.29	-47.28	-8.42	0.00
3	4	4	-1051.41	1465.82	1.51	14	0.50	-848.65	-820.23	-1022.99	208.29	-47.28	-8.38	0.72
4	4	4	-1051.53	1539.77	1.44	14	0.50	-848.18	-819.55	-1022.90	208.29	-47.28	-7.29	1.81
5	2	4	-623.61	905.00	1.44	2	0.33	-501.02	-483.51	-606.10	208.29	-47.28	-6.33	2.09
6	4	4	-1051.23	1462.93	1.51	14	0.50	-848.44	-820.04	-1022.83	208.29	-47.28	-6.45	2.65
7	2	4	-623.60	872.39	1.50	2	0.33	-501.18	-483.62	-606.04	208.29	-47.28	-5.36	3.06
8	4	4	-1051.38	1424.52	1.55	14	0.50	-849.63	-821.04	-1022.79	208.29	-47.28	-5.97	3.13
9	4	4	-1051.16	1602.05	1.38	14	0.50	-847.66	-819.25	-1022.75	208.29	-47.28	-5.48	3.62
10	4	4	-1051.31	1459.51	1.52	14	0.50	-848.22	-819.65	-1022.74	208.29	-47.28	-5.36	3.74
11	2	4	-623.66	881.62	1.48	2	0.33	-501.59	-483.92	-605.99	208.29	-47.28	-4.56	3.86
12	4	8	-1246.81	1807.41	1.45	14	0.33	-	-967.80	-1211.98	208.29	-47.28	-4.56	3.86
13	4	4	-1050.97	1513.78	1.46	14	0.50	1002.63 -847.97	-819.72	-1022.72	208.29	-47.28	-5.12	3.98
14	4	4	-1051.37	1568.57	1.41	14	0.50	-848.31	-819.66	-1022.72	208.29	-47.28	-5.12	3.98
15	4	4	-1051.19	1533.67	1.44	14	0.50	-848.01	-819.53	-1022.71	208.29	-47.28	-5.00	4.10
16	2	4	-623.48	872.61	1.50	2	0.33	-501.42	-483.91	-605.97	208.29	-47.28	-4.24	4.18
17	4	4	-1051.57	1490.31	1.49	14	0.50	-848.01	-819.14	-1022.70	208.29	-47.28	-4.88	4.22
18	4	4	-1051.00	1553.92	1.43	14	0.50	-847.50	-819.19	-1022.69	208.29	-47.28	-4.76	4.34
19	4	4	-1051.31	1544.35	1.43	14	0.50	-848.26	-819.62	-1022.67	208.29	-47.28	-4.52	4.58
20	4	4	-1051.27	1522.42	1.45	14	0.50	-848.43	-819.81	-1022.65	208.29	-47.28	-4.28	4.82
21	4	4	-1051.31	1527.95	1.45	14	0.50	-848.83	-820.17	-1022.65	208.29	-47.28	-4.28	4.82
22	4	4	-1051.18	1554.10	1.43	33	0.50	-847.71	-819.17	-1022.64	208.29	-47.28	-4.16	4.94
23	4	4	-1051.51	1509.47	1.47	14	0.50	-847.89	-819.00	-1022.62	208.29	-47.28	-3.92	5.18
24	4	8	-1246.77	1943.77	1.34	14	0.33	-	-966.12	-1211.78	208.29	-47.28	-2.95	5.47
25	4	8	-1246.73	1979.99	1.32	14	0.33	1001.11 -	-966.15	-1211.73	208.29	-47.28	-2.55	5.87
26	2	4	-623.35	948.35	1.38	4	0.33	1001.15 -501.50	-484.00	-605.85	208.29	-47.28	-2.31	6.11
27	4	4	-1051.30	1575.76	1.41	14	0.50	-848.07	-819.31	-1022.54	208.29	-47.28	-2.95	6.15
28	4	8	-1246.71	1719.10	1.52	14	0.33	-	-967.47	-1211.68	208.29	-47.28	-2.15	6.27
29	2	2	-525.61	729.84	1.52	2	0.50	1002.50 -424.16	-409.81	-511.26	208.29	-47.28	-2.71	6.39
30	2	2	-525.71	785.52	1.41	2	0.50	-423.98	-409.52	-511.25	208.29	-47.28	-2.47	6.63
31	4	4	-1051.44	1464.03	1.51	14	0.50	-849.44	-820.48	-1022.48	208.29	-47.28	-2.23	6.87

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32	4	4	-1051.17	1621.46	1.37	14	0.50	-847.45	-818.76	-1022.48	-	-47.28	-2.23	6.87
											208.29			
33	4	4	-1051.29	1509.72	1.47	14	0.50	-849.03	-820.22	-1022.48	-	-47.28	-2.23	6.87
											208.29			
34	4	4	-1051.19	1494.23	1.48	14	0.50	-847.23	-818.50	-1022.46	-	-47.28	-1.99	7.11
											208.29			
35	4	4	-1051.16	1630.88	1.36	14	0.50	-849.23	-820.52	-1022.45	-	-47.28	-1.87	7.23
											208.29			
36	2	4	-623.29	881.60	1.48	2	0.33	-500.83	-483.32	-605.78	-	-47.28	-1.18	7.24
											208.29			
37	2	4	-623.33	881.00	1.48	2	0.33	-500.73	-483.18	-605.78	-	-47.28	-1.18	7.24
											208.29			
38	2	4	-623.54	900.27	1.45	4	0.33	-501.35	-483.59	-605.78	-	-47.28	-1.18	7.24
											208.29			
39	4	8	-1246.50	1875.21	1.39	14	0.33	-	-967.68	-1211.55	-	-47.28	-1.10	7.32
								1002.63			208.29			
40	4	4	-1051.13	1492.30	1.48	14	0.50	-848.15	-819.46	-1022.44	-	-47.28	-1.75	7.35
											208.29			
41	4	4	-1051.28	1615.28	1.37	33	0.50	-848.10	-819.26	-1022.44	-	-47.28	-1.75	7.35
											208.29			
42	2	4	-623.11	944.80	1.38	2	0.33	-500.63	-483.28	-605.76	-	-47.28	-0.86	7.56
											208.29			
43	4	4	-1050.91	1629.48	1.36	14	0.50	-847.73	-819.22	-1022.40	-	-47.28	-1.26	7.84
											208.29			
44	4	4	-1051.39	1435.70	1.54	14	0.50	-849.76	-820.77	-1022.40	-	-47.28	-1.26	7.84
											208.29			
45	4	4	-1050.69	1508.01	1.47	14	0.50	-847.56	-819.23	-1022.36	-	-47.28	-0.78	8.32
											208.29			
46	4	4	-1050.62	1473.71	1.50	14	0.50	-848.21	-819.92	-1022.33	-	-47.28	-0.42	8.68
											208.29			

Table S 4. The list of the generated co-crystal structures of pomalidomide with gallic acid, ranked by dh. Gibbs free energies of formation (ΔG) were computed using a hybrid DFT (VASP, PBE-D3) and vibrational correction (GULP, GFN-FF).

Rank-dh	Z1	Z2	lattice energy (ev)	Volume, Å ³	Density, g/cm ³	Space group	composition	Estatic (GULP)	Helmholtz (GULP)	G_cocrystal	G-1	G-2	G_form (kJ/mol)	dh
1	2	4	-909.56	1507.42	1.35	2	0.33	-719.23	-695.83	-886.16	-208.29	-116.28	-71.91	0.00
2	2	2	-669.32	1032.54	1.43	2	0.50	-532.50	-515.29	-652.11	-208.29	-116.28	-71.59	0.00
3	2	2	-669.47	922.79	1.60	2	0.50	-533.11	-515.74	-652.10	-208.29	-116.28	-71.41	0.18
4	2	4	-909.42	1437.07	1.42	2	0.33	-715.62	-692.35	-886.15	-208.29	-116.28	-71.65	0.26
5	2	4	-909.45	1392.70	1.46	2	0.33	-716.32	-693.02	-886.14	-208.29	-116.28	-71.52	0.39
6	2	4	-909.57	1483.21	1.37	2	0.33	-719.07	-695.63	-886.14	-208.29	-116.28	-71.51	0.40
7	2	4	-909.70	1567.38	1.30	2	0.33	-718.84	-695.27	-886.12	-208.29	-116.28	-71.21	0.70
8	2	4	-909.53	1456.89	1.40	2	0.33	-718.21	-694.79	-886.11	-208.29	-116.28	-71.05	0.86
9	2	4	-909.71	1460.57	1.40	2	0.33	-718.21	-694.61	-886.11	-208.29	-116.28	-71.02	0.89
10	2	4	-909.47	1529.02	1.33	2	0.33	-716.88	-693.51	-886.11	-208.29	-116.28	-71.01	0.90
11	2	4	-909.82	1401.30	1.45	2	0.33	-716.88	-693.16	-886.10	-208.29	-116.28	-70.92	0.99
12	2	4	-909.27	1455.72	1.40	2	0.33	-716.76	-693.57	-886.09	-208.29	-116.28	-70.67	1.24
13	2	4	-909.68	1446.24	1.41	2	0.33	-717.76	-694.16	-886.08	-208.29	-116.28	-70.64	1.27
14	2	4	-909.30	1543.99	1.32	2	0.33	-718.21	-694.99	-886.08	-208.29	-116.28	-70.59	1.32
15	2	4	-909.50	1489.39	1.37	2	0.33	-716.85	-693.43	-886.08	-208.29	-116.28	-70.59	1.32
16	2	4	-909.47	1541.06	1.32	2	0.33	-717.66	-694.27	-886.08	-208.29	-116.28	-70.55	1.36
17	2	4	-909.28	1598.70	1.27	2	0.33	-718.21	-695.01	-886.08	-208.29	-116.28	-70.55	1.36
18	2	4	-909.75	1413.37	1.44	2	0.33	-717.18	-693.50	-886.07	-208.29	-116.28	-70.38	1.53
19	2	4	-909.52	1412.04	1.44	2	0.33	-718.27	-694.81	-886.06	-208.29	-116.28	-70.26	1.65
20	2	4	-909.49	1447.77	1.41	2	0.33	-717.08	-693.65	-886.06	-208.29	-116.28	-70.26	1.65
21	2	4	-909.55	1451.39	1.40	2	0.33	-716.41	-692.91	-886.05	-208.29	-116.28	-70.10	1.81
22	2	2	-669.21	979.18	1.50	2	0.50	-532.87	-515.69	-652.03	-208.29	-116.28	-69.77	1.82
23	2	4	-909.49	1558.79	1.31	2	0.33	-716.13	-692.69	-886.05	-208.29	-116.28	-70.06	1.85
24	8	12	-3157.49	4785.42	1.47	14	0.40	-2502.58	-2421.24	-3076.15	-208.29	-116.28	-69.89	1.89
25	2	4	-909.51	1405.88	1.45	2	0.33	-717.00	-693.50	-886.01	-208.29	-116.28	-69.51	2.40
26	2	4	-909.36	1390.65	1.47	2	0.33	-717.90	-694.55	-886.01	-208.29	-116.28	-69.48	2.43
27	4	6	-1578.62	2386.51	1.47	2	0.40	-1250.45	-1209.82	-1537.99	-208.29	-116.28	-69.11	2.67
28	2	4	-909.55	1485.01	1.37	2	0.33	-717.96	-694.39	-885.98	-208.29	-116.28	-69.03	2.88
29	2	4	-909.24	1565.29	1.30	2	0.33	-718.53	-695.27	-885.98	-208.29	-116.28	-69.03	2.88
30	2	4	-909.14	1658.71	1.23	2	0.33	-717.40	-694.22	-885.96	-208.29	-116.28	-68.60	3.31
31	2	4	-909.22	1395.20	1.46	2	0.33	-716.60	-693.34	-885.96	-208.29	-116.28	-68.60	3.31
32	2	4	-909.25	1391.06	1.47	2	0.33	-715.83	-692.52	-885.94	-208.29	-116.28	-68.38	3.53
33	2	4	-909.47	1462.27	1.39	2	0.33	-717.32	-693.79	-885.94	-208.29	-116.28	-68.30	3.61
34	2	4	-909.21	1392.18	1.46	2	0.33	-717.16	-693.88	-885.94	-208.29	-116.28	-68.28	3.63
35	2	4	-909.43	1432.20	1.42	2	0.33	-716.63	-693.14	-885.94	-208.29	-116.28	-68.26	3.65
36	4	6	-1578.42	2429.96	1.44	2	0.40	-1249.90	-1209.35	-1537.87	-208.29	-116.28	-67.94	3.84
37	2	4	-909.34	1635.68	1.25	2	0.33	-717.34	-693.90	-885.91	-208.29	-116.28	-67.81	4.10
38	2	4	-909.07	1368.15	1.49	2	0.33	-717.28	-694.12	-885.91	-208.29	-116.28	-67.76	4.15
39	2	2	-669.21	1028.67	1.43	2	0.50	-533.38	-516.10	-651.93	-208.29	-116.28	-67.37	4.22
40	2	4	-909.48	1389.41	1.47	2	0.33	-717.12	-693.54	-885.90	-208.29	-116.28	-67.66	4.25
41	2	4	-909.31	1738.59	1.17	2	0.33	-716.32	-692.91	-885.90	-208.29	-116.28	-67.63	4.28
42	2	4	-909.51	1470.71	1.39	2	0.33	-718.01	-694.40	-885.89	-208.29	-116.28	-67.59	4.32
43	2	4	-909.36	1554.05	1.31	2	0.33	-717.34	-693.87	-885.89	-208.29	-116.28	-67.46	4.45
44	2	4	-909.18	1604.59	1.27	2	0.33	-717.67	-694.38	-885.89	-208.29	-116.28	-67.45	4.46
45	2	4	-909.23	1413.64	1.44	2	0.33	-718.20	-694.85	-885.88	-208.29	-116.28	-67.40	4.51
46	8	12	-3156.70	5003.94	1.40	14	0.40	-2499.81	-2418.66	-3075.55	-208.29	-116.28	-66.99	4.79
47	2	4	-909.43	1399.17	1.46	2	0.33	-718.28	-694.71	-885.86	-208.29	-116.28	-67.08	4.83
48	2	4	-909.31	1589.05	1.28	2	0.33	-717.90	-694.45	-885.86	-208.29	-116.28	-66.99	4.92
49	2	4	-909.53	1452.00	1.40	2	0.33	-717.75	-694.08	-885.85	-208.29	-116.28	-66.95	4.96
50	2	4	-909.39	1403.08	1.45	2	0.33	-717.42	-693.88	-885.85	-208.29	-116.28	-66.87	5.04
51	2	4	-909.26	1653.56	1.23	2	0.33	-718.13	-694.72	-885.85	-208.29	-116.28	-66.86	5.05
52	2	4	-909.23	1535.85	1.33	2	0.33	-715.76	-692.38	-885.85	-208.29	-116.28	-66.85	5.06
53	2	4	-909.15	1543.09	1.32	2	0.33	-714.82	-691.52	-885.85	-208.29	-116.28	-66.81	5.10
54	2	2	-669.22	936.36	1.57	2	0.50	-533.41	-516.08	-651.90	-208.29	-116.28	-66.48	5.11

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55	4	6	-1578.44	2526.07	1.39	2	0.40	-1250.17	-1209.46	-1537.74	-208.29	-116.28	-66.62	5.16
56	2	4	-909.29	1426.12	1.43	2	0.33	-716.79	-693.33	-885.83	-208.29	-116.28	-66.59	5.32
57	2	4	-909.15	1392.74	1.46	2	0.33	-718.32	-695.00	-885.83	-208.29	-116.28	-66.52	5.39
58	2	4	-909.10	1426.72	1.43	2	0.33	-718.55	-695.28	-885.83	-208.29	-116.28	-66.49	5.42
59	2	4	-909.37	1397.33	1.46	2	0.33	-717.24	-693.70	-885.82	-208.29	-116.28	-66.39	5.52
60	4	6	-1578.23	2426.49	1.45	2	0.40	-1250.14	-1209.60	-1537.68	-208.29	-116.28	-66.12	5.66
61	2	4	-909.25	1503.13	1.36	2	0.33	-718.47	-695.02	-885.81	-208.29	-116.28	-66.16	5.75
62	2	4	-909.00	1509.79	1.35	2	0.33	-718.21	-695.01	-885.80	-208.29	-116.28	-66.08	5.83
63	2	4	-909.08	1694.96	1.20	2	0.33	-716.61	-693.32	-885.80	-208.29	-116.28	-66.02	5.89
64	2	2	-669.24	999.93	1.47	2	0.50	-533.70	-516.32	-651.86	-208.29	-116.28	-65.64	5.95
65	2	4	-909.33	1542.06	1.32	2	0.33	-717.96	-694.41	-885.79	-208.29	-116.28	-65.88	6.03
66	2	4	-909.12	1718.64	1.19	2	0.33	-718.58	-695.24	-885.78	-208.29	-116.28	-65.77	6.14
67	2	4	-909.14	1702.53	1.20	2	0.33	-716.84	-693.46	-885.77	-208.29	-116.28	-65.62	6.29
68	2	4	-909.21	1553.09	1.31	2	0.33	-717.60	-694.16	-885.77	-208.29	-116.28	-65.61	6.30
69	2	4	-908.94	1489.94	1.37	2	0.33	-715.70	-692.53	-885.77	-208.29	-116.28	-65.56	6.35
70	2	4	-909.14	1578.72	1.29	2	0.33	-717.07	-693.69	-885.76	-208.29	-116.28	-65.40	6.51
71	2	4	-909.14	1418.13	1.44	2	0.33	-716.46	-693.07	-885.75	-208.29	-116.28	-65.32	6.59
72	2	2	-669.25	963.57	1.53	2	0.50	-532.64	-515.23	-651.83	-208.29	-116.28	-65.00	6.59
73	2	2	-669.04	1019.83	1.44	2	0.50	-532.99	-515.78	-651.83	-208.29	-116.28	-64.99	6.60
74	4	6	-1578.05	2462.53	1.43	2	0.40	-1250.11	-1209.63	-1537.57	-208.29	-116.28	-65.00	6.78
75	4	6	-1578.36	2527.60	1.39	2	0.40	-1249.24	-1208.43	-1537.55	-208.29	-116.28	-64.87	6.91
76	2	4	-908.84	1398.49	1.46	2	0.33	-715.36	-692.25	-885.72	-208.29	-116.28	-64.86	7.05
77	2	2	-668.89	954.78	1.54	2	0.50	-533.33	-516.25	-651.81	-208.29	-116.28	-64.49	7.10
78	2	4	-909.05	1358.31	1.50	2	0.33	-717.83	-694.50	-885.72	-208.29	-116.28	-64.77	7.14
79	2	2	-669.16	965.12	1.53	2	0.50	-533.25	-515.90	-651.81	-208.29	-116.28	-64.34	7.25
80	2	4	-909.00	1427.00	1.43	2	0.33	-717.22	-693.92	-885.70	-208.29	-116.28	-64.39	7.52
81	2	4	-909.13	1515.38	1.35	2	0.33	-716.07	-692.62	-885.68	-208.29	-116.28	-64.15	7.76
82	2	4	-908.96	1334.05	1.53	2	0.33	-716.03	-692.74	-885.68	-208.29	-116.28	-64.08	7.83
83	4	2	-1096.55	1560.14	1.53	2	0.67	-880.57	-852.20	-1068.18	-208.29	-116.28	-39.42	7.83
84	2	4	-909.14	1440.84	1.41	2	0.33	-718.12	-694.65	-885.67	-208.29	-116.28	-63.95	7.96
85	2	2	-669.25	1018.47	1.45	2	0.50	-532.48	-515.00	-651.77	-208.29	-116.28	-63.37	8.22
86	2	4	-909.00	1545.13	1.32	2	0.33	-717.09	-693.74	-885.65	-208.29	-116.28	-63.66	8.25
87	2	4	-908.95	1428.60	1.43	2	0.33	-716.92	-693.62	-885.65	-208.29	-116.28	-63.61	8.30
88	4	6	-1578.46	2534.83	1.39	2	0.40	-1250.61	-1209.55	-1537.40	-208.29	-116.28	-63.42	8.36
89	2	4	-909.01	1553.67	1.31	2	0.33	-718.54	-695.16	-885.64	-208.29	-116.28	-63.46	8.45
90	2	4	-909.14	1565.89	1.30	2	0.33	-717.63	-694.13	-885.63	-208.29	-116.28	-63.37	8.54
91	2	4	-909.05	1505.01	1.35	2	0.33	-718.56	-695.14	-885.63	-208.29	-116.28	-63.32	8.59
92	4	6	-1577.54	2452.29	1.43	4	0.40	-1250.78	-1210.62	-1537.38	-208.29	-116.28	-63.18	8.60
93	2	4	-909.21	1562.90	1.30	2	0.33	-718.25	-694.66	-885.61	-208.29	-116.28	-63.09	8.82
94	2	4	-908.72	1763.30	1.16	2	0.33	-716.24	-693.12	-885.61	-208.29	-116.28	-62.97	8.94
95	4	6	-1577.54	2445.42	1.44	4	0.40	-1250.71	-1210.51	-1537.34	-208.29	-116.28	-62.77	9.01
96	4	2	-1096.55	1554.75	1.53	2	0.67	-880.60	-852.16	-1068.10	-208.29	-116.28	-38.18	9.07
97	4	6	-1578.04	2462.46	1.43	2	0.40	-1250.39	-1209.67	-1537.32	-208.29	-116.28	-62.64	9.14
98	2	4	-908.89	1562.73	1.30	2	0.33	-715.59	-692.29	-885.59	-208.29	-116.28	-62.74	9.17
99	4	2	-1096.55	1570.20	1.52	2	0.67	-880.59	-852.12	-1068.09	-208.29	-116.28	-37.90	9.35
100	2	2	-669.00	962.77	1.53	2	0.50	-532.73	-515.45	-651.72	-208.29	-116.28	-62.23	9.36
101	2	4	-908.94	1584.93	1.29	2	0.33	-716.28	-692.92	-885.58	-208.29	-116.28	-62.54	9.37
102	2	4	-909.05	1432.76	1.42	2	0.33	-718.24	-694.78	-885.58	-208.29	-116.28	-62.54	9.37
103	2	4	-908.76	1531.21	1.33	2	0.33	-717.20	-694.01	-885.57	-208.29	-116.28	-62.42	9.49
104	2	2	-669.19	921.33	1.60	2	0.50	-532.61	-515.12	-651.70	-208.29	-116.28	-61.84	9.75
105	2	2	-668.74	989.89	1.49	2	0.50	-532.59	-515.55	-651.70	-208.29	-116.28	-61.82	9.77
106	2	4	-908.90	1471.71	1.38	2	0.33	-716.32	-692.97	-885.55	-208.29	-116.28	-62.05	9.86
107	2	4	-908.74	1526.16	1.34	2	0.33	-716.53	-693.34	-885.55	-208.29	-116.28	-62.03	9.88
108	2	4	-908.95	1693.85	1.20	2	0.33	-718.49	-695.09	-885.54	-208.29	-116.28	-61.97	9.94
109	2	4	-908.73	1481.40	1.38	2	0.33	-718.21	-695.02	-885.54	-208.29	-116.28	-61.92	9.99
110	2	4	-909.02	1578.01	1.29	2	0.33	-718.22	-694.72	-885.53	-208.29	-116.28	-61.71	10.20
111	2	4	-908.99	1612.93	1.26	2	0.33	-717.59	-694.13	-885.53	-208.29	-116.28	-61.69	10.22
112	4	2	-1096.56	1557.66	1.53	2	0.67	-880.56	-852.03	-1068.03	-208.29	-116.28	-36.94	10.31
113	2	2	-668.90	929.80	1.58	2	0.50	-533.33	-516.11	-651.68	-208.29	-116.28	-61.23	10.36

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114	2	4	-909.03	1431.23	1.42	2	0.33	-717.08	-693.57	-885.52	-208.29	-116.28	-61.49	10.42
115	2	2	-669.11	962.08	1.53	2	0.50	-532.93	-515.49	-651.67	-208.29	-116.28	-61.10	10.49
116	2	4	-909.09	1700.41	1.20	2	0.33	-718.34	-694.75	-885.51	-208.29	-116.28	-61.40	10.51
117	4	6	-1577.77	2617.36	1.34	2	0.40	-1249.90	-1209.30	-1537.17	-208.29	-116.28	-61.19	10.59
118	2	4	-908.86	1470.69	1.39	2	0.33	-718.23	-694.87	-885.50	-208.29	-116.28	-61.28	10.63
119	4	6	-1577.41	2534.16	1.39	2	0.40	-1248.51	-1208.27	-1537.17	-208.29	-116.28	-61.14	10.64
120	2	2	-669.00	999.79	1.47	2	0.50	-533.25	-515.91	-651.66	-208.29	-116.28	-60.89	10.70
121	2	2	-669.07	1062.59	1.39	2	0.50	-531.99	-514.59	-651.66	-208.29	-116.28	-60.89	10.70
122	2	2	-668.97	978.02	1.51	2	0.50	-532.40	-515.10	-651.66	-208.29	-116.28	-60.84	10.75
123	4	2	-1096.54	1567.54	1.52	2	0.67	-880.56	-852.01	-1067.99	-208.29	-116.28	-36.38	10.87
124	2	2	-669.05	1011.37	1.46	2	0.50	-532.36	-514.96	-651.65	-208.29	-116.28	-60.62	10.97
125	2	4	-908.72	1488.42	1.37	2	0.33	-717.62	-694.38	-885.48	-208.29	-116.28	-60.89	11.02
126	4	4	-1337.71	1914.03	1.54	29	0.50	-1065.25	-1030.84	-1303.30	-208.29	-116.28	-60.56	11.03
127	2	2	-668.79	970.32	1.52	2	0.50	-532.05	-514.90	-651.64	-208.29	-116.28	-60.38	11.21
128	4	6	-1577.64	2512.69	1.40	2	0.40	-1249.45	-1208.92	-1537.11	-208.29	-116.28	-60.54	11.24
129	2	4	-908.92	1665.70	1.22	2	0.33	-717.34	-693.89	-885.46	-208.29	-116.28	-60.63	11.28
130	2	4	-908.70	1612.34	1.26	2	0.33	-717.27	-694.03	-885.46	-208.29	-116.28	-60.60	11.31
131	2	4	-909.11	1561.86	1.30	2	0.33	-716.52	-692.85	-885.44	-208.29	-116.28	-60.36	11.55
132	2	4	-908.83	1575.82	1.29	2	0.33	-718.42	-695.03	-885.44	-208.29	-116.28	-60.31	11.60
133	2	2	-668.90	935.30	1.57	2	0.50	-532.63	-515.35	-651.62	-208.29	-116.28	-59.87	11.72
134	2	4	-908.71	1520.47	1.34	2	0.33	-716.62	-693.35	-885.43	-208.29	-116.28	-60.17	11.74
135	2	2	-668.88	1019.23	1.45	2	0.50	-532.28	-515.02	-651.62	-208.29	-116.28	-59.76	11.83
136	2	4	-908.87	1608.19	1.27	2	0.33	-717.01	-693.56	-885.42	-208.29	-116.28	-60.02	11.89
137	4	6	-1577.62	2526.35	1.39	2	0.40	-1250.06	-1209.47	-1537.04	-208.29	-116.28	-59.88	11.90
138	4	4	-1337.93	1950.67	1.51	14	0.50	-1065.97	-1031.25	-1303.21	-208.29	-116.28	-59.50	12.09
139	2	4	-908.64	1481.80	1.38	2	0.33	-717.80	-694.57	-885.40	-208.29	-116.28	-59.68	12.23
140	2	4	-908.71	1717.13	1.19	2	0.33	-716.24	-692.91	-885.38	-208.29	-116.28	-59.35	12.56
141	4	4	-1337.26	1931.37	1.53	14	0.50	-1065.71	-1031.60	-1303.15	-208.29	-116.28	-58.75	12.84
142	2	4	-908.87	1503.15	1.36	2	0.33	-718.69	-695.17	-885.36	-208.29	-116.28	-58.95	12.96
143	2	4	-908.95	1457.20	1.40	2	0.33	-717.76	-694.17	-885.35	-208.29	-116.28	-58.87	13.04
144	2	2	-668.83	1117.45	1.32	2	0.50	-532.06	-514.80	-651.57	-208.29	-116.28	-58.55	13.04
145	2	4	-908.92	1572.49	1.30	2	0.33	-717.85	-694.28	-885.35	-208.29	-116.28	-58.83	13.08
146	2	4	-908.83	1528.37	1.33	2	0.33	-717.68	-694.19	-885.34	-208.29	-116.28	-58.73	13.18
147	2	2	-668.63	1009.13	1.46	2	0.50	-533.30	-516.23	-651.56	-208.29	-116.28	-58.29	13.30
148	2	2	-668.80	1029.92	1.43	2	0.50	-532.73	-515.48	-651.55	-208.29	-116.28	-58.04	13.55
149	4	4	-1337.62	2005.01	1.47	14	0.50	-1066.07	-1031.54	-1303.09	-208.29	-116.28	-57.97	13.62
150	4	6	-1577.18	2528.57	1.39	2	0.40	-1249.81	-1209.49	-1536.85	-208.29	-116.28	-58.09	13.69
151	2	2	-668.90	1022.08	1.44	2	0.50	-532.60	-515.25	-651.54	-208.29	-116.28	-57.88	13.71
152	2	2	-669.02	968.76	1.52	2	0.50	-532.74	-515.26	-651.54	-208.29	-116.28	-57.86	13.73
153	2	4	-908.60	1465.23	1.39	2	0.33	-716.31	-693.02	-885.31	-208.29	-116.28	-58.16	13.75
154	2	4	-908.76	1403.24	1.45	2	0.33	-717.64	-694.19	-885.31	-208.29	-116.28	-58.16	13.75
155	2	4	-908.85	1445.00	1.41	2	0.33	-717.01	-693.47	-885.31	-208.29	-116.28	-58.16	13.75
156	2	4	-908.58	1434.57	1.42	2	0.33	-718.67	-695.39	-885.30	-208.29	-116.28	-57.99	13.92
157	4	4	-1337.43	1897.86	1.55	14	0.50	-1064.98	-1030.60	-1303.05	-208.29	-116.28	-57.54	14.05
158	2	4	-908.67	1460.13	1.40	2	0.33	-717.20	-693.82	-885.29	-208.29	-116.28	-57.85	14.06
159	2	2	-668.80	1005.52	1.46	2	0.50	-532.63	-515.36	-651.52	-208.29	-116.28	-57.44	14.15
160	4	6	-1577.67	2463.26	1.43	2	0.40	-1249.35	-1208.48	-1536.80	-208.29	-116.28	-57.59	14.19
161	2	4	-908.62	1725.12	1.18	2	0.33	-718.58	-695.24	-885.28	-208.29	-116.28	-57.68	14.23
162	2	4	-909.11	1389.00	1.47	2	0.33	-718.43	-694.60	-885.28	-208.29	-116.28	-57.67	14.24
163	2	4	-908.66	1647.84	1.24	2	0.33	-717.38	-693.99	-885.27	-208.29	-116.28	-57.56	14.35
164	8	12	-3155.04	4808.82	1.46	14	0.40	-2498.94	-2417.46	-3073.56	-208.29	-116.28	-57.39	14.39
165	2	2	-668.75	981.90	1.50	2	0.50	-532.72	-515.48	-651.51	-208.29	-116.28	-57.18	14.41
166	4	6	-1577.35	2509.74	1.40	2	0.40	-1250.02	-1209.44	-1536.77	-208.29	-116.28	-57.30	14.48
167	2	2	-668.67	1009.78	1.46	2	0.50	-532.99	-515.82	-651.50	-208.29	-116.28	-56.93	14.66
168	2	2	-668.99	957.30	1.54	2	0.50	-532.57	-515.08	-651.50	-208.29	-116.28	-56.91	14.68
169	4	6	-1577.28	2567.47	1.37	2	0.40	-1250.19	-1209.65	-1536.74	-208.29	-116.28	-57.04	14.74
170	2	4	-908.40	1609.46	1.27	2	0.33	-717.22	-694.07	-885.24	-208.29	-116.28	-57.14	14.77
171	2	4	-908.84	1575.83	1.29	2	0.33	-716.64	-693.05	-885.24	-208.29	-116.28	-57.14	14.77
172	4	6	-1577.14	2532.18	1.39	2	0.40	-1249.83	-1209.43	-1536.74	-208.29	-116.28	-57.01	14.77

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173	2	2	-668.85	1055.53	1.40	2	0.50	-532.71	-515.36	-651.50	-208.29	-116.28	-56.82	14.77
174	2	4	-908.62	1695.28	1.20	2	0.33	-716.44	-693.05	-885.23	-208.29	-116.28	-56.96	14.95
175	4	6	-1577.15	2416.43	1.45	2	0.40	-1250.51	-1210.05	-1536.68	-208.29	-116.28	-56.48	15.30
176	4	6	-1577.30	2548.43	1.38	2	0.40	-1249.15	-1208.52	-1536.67	-208.29	-116.28	-56.32	15.46
177	2	2	-668.96	935.65	1.57	2	0.50	-532.75	-515.26	-651.47	-208.29	-116.28	-56.12	15.47
178	2	2	-668.70	1010.76	1.46	2	0.50	-532.99	-515.75	-651.46	-208.29	-116.28	-56.04	15.55
179	2	4	-908.29	1870.38	1.09	2	0.33	-714.98	-691.89	-885.20	-208.29	-116.28	-56.35	15.56
180	4	2	-1095.95	1641.30	1.45	2	0.67	-879.85	-851.58	-1067.69	-208.29	-116.28	-31.56	15.69
181	4	4	-1337.47	1959.80	1.50	14	0.50	-1064.55	-1029.98	-1302.90	-208.29	-116.28	-55.72	15.87
182	4	6	-1577.27	2622.90	1.34	2	0.40	-1249.68	-1209.03	-1536.62	-208.29	-116.28	-55.83	15.95
183	2	2	-668.82	988.57	1.49	2	0.50	-532.55	-515.17	-651.45	-208.29	-116.28	-55.60	15.99
184	2	2	-668.52	984.71	1.50	2	0.50	-533.07	-515.99	-651.44	-208.29	-116.28	-55.55	16.04
185	8	12	-3154.59	5185.80	1.35	14	0.40	-2496.61	-2415.23	-3073.21	-208.29	-116.28	-55.72	16.06
186	2	4	-908.58	1369.48	1.49	2	0.33	-717.60	-694.18	-885.16	-208.29	-116.28	-55.81	16.10
187	2	2	-668.74	1041.07	1.41	2	0.50	-532.27	-514.96	-651.43	-208.29	-116.28	-55.26	16.33
188	2	2	-668.77	965.51	1.53	2	0.50	-532.89	-515.55	-651.43	-208.29	-116.28	-55.17	16.42
189	2	2	-668.92	1024.17	1.44	2	0.50	-532.75	-515.26	-651.42	-208.29	-116.28	-55.10	16.49
190	2	2	-668.93	1004.58	1.47	2	0.50	-531.94	-514.42	-651.41	-208.29	-116.28	-54.84	16.75
191	4	4	-1337.08	1991.60	1.48	14	0.50	-1066.63	-1032.37	-1302.82	-208.29	-116.28	-54.75	16.84
192	2	2	-668.72	1010.58	1.46	2	0.50	-532.38	-515.06	-651.41	-208.29	-116.28	-54.72	16.87
193	2	2	-668.71	979.61	1.50	2	0.50	-532.69	-515.39	-651.41	-208.29	-116.28	-54.70	16.89
194	2	4	-908.49	1499.52	1.36	2	0.33	-718.43	-695.04	-885.10	-208.29	-116.28	-54.87	17.04
195	4	6	-1576.96	2539.07	1.38	2	0.40	-1249.22	-1208.75	-1536.50	-208.29	-116.28	-54.67	17.11
196	2	2	-668.70	990.75	1.49	2	0.50	-531.93	-514.62	-651.40	-208.29	-116.28	-54.42	17.17
197	2	2	-668.83	987.87	1.49	2	0.50	-533.24	-515.80	-651.39	-208.29	-116.28	-54.38	17.21
198	4	2	-1096.06	1557.29	1.53	2	0.67	-880.29	-851.83	-1067.59	-208.29	-116.28	-30.01	17.24
199	2	2	-668.78	933.95	1.58	2	0.50	-532.95	-515.56	-651.39	-208.29	-116.28	-54.27	17.32
200	2	4	-908.48	1504.58	1.35	2	0.33	-718.54	-695.14	-885.08	-208.29	-116.28	-54.54	17.37
201	2	2	-668.53	1008.65	1.46	2	0.50	-532.48	-515.33	-651.39	-208.29	-116.28	-54.17	17.42
202	2	2	-668.82	975.00	1.51	2	0.50	-533.29	-515.86	-651.39	-208.29	-116.28	-54.16	17.43
203	2	2	-668.73	1004.37	1.47	2	0.50	-531.75	-514.39	-651.38	-208.29	-116.28	-53.95	17.64
204	4	4	-1336.84	1967.65	1.50	14	0.50	-1065.36	-1031.26	-1302.75	-208.29	-116.28	-53.90	17.69
205	2	4	-908.39	1522.04	1.34	2	0.33	-718.41	-695.08	-885.06	-208.29	-116.28	-54.19	17.72
206	4	6	-1576.80	2658.29	1.32	2	0.40	-1249.28	-1208.91	-1536.43	-208.29	-116.28	-54.04	17.74
207	4	6	-1577.05	2555.86	1.37	2	0.40	-1249.98	-1209.36	-1536.43	-208.29	-116.28	-53.97	17.81
208	4	4	-1337.49	1920.77	1.53	14	0.50	-1066.36	-1031.60	-1302.74	-208.29	-116.28	-53.76	17.83
209	2	2	-668.71	987.42	1.49	2	0.50	-532.96	-515.62	-651.37	-208.29	-116.28	-53.73	17.86
210	4	6	-1576.92	2564.11	1.37	2	0.40	-1249.40	-1208.89	-1536.41	-208.29	-116.28	-53.87	17.91
211	2	4	-908.63	1587.32	1.28	2	0.33	-719.03	-695.44	-885.05	-208.29	-116.28	-53.96	17.95
212	2	2	-668.58	968.28	1.52	2	0.50	-533.22	-516.00	-651.36	-208.29	-116.28	-53.55	18.04
213	2	2	-668.77	996.98	1.48	2	0.50	-533.44	-516.03	-651.36	-208.29	-116.28	-53.53	18.06
214	2	2	-668.42	995.62	1.48	2	0.50	-532.12	-515.05	-651.36	-208.29	-116.28	-53.46	18.13
215	2	2	-668.41	981.68	1.50	2	0.50	-532.49	-515.44	-651.35	-208.29	-116.28	-53.42	18.17
216	4	6	-1576.88	2435.82	1.44	2	0.40	-1248.87	-1208.38	-1536.38	-208.29	-116.28	-53.55	18.23
217	12	8	-3529.46	5113.54	1.51	14	0.60	-2825.86	-2734.22	-3437.82	-208.29	-116.28	-39.01	18.26
218	2	4	-908.59	1590.41	1.28	2	0.33	-718.68	-695.11	-885.03	-208.29	-116.28	-53.63	18.28
219	2	4	-908.60	1664.95	1.22	2	0.33	-717.53	-693.96	-885.02	-208.29	-116.28	-53.61	18.30
220	2	2	-668.74	1020.94	1.44	2	0.50	-532.10	-514.71	-651.35	-208.29	-116.28	-53.25	18.34
221	2	2	-668.60	963.74	1.53	2	0.50	-532.51	-515.25	-651.35	-208.29	-116.28	-53.24	18.35
222	4	4	-1336.95	2127.84	1.38	14	0.50	-1063.45	-1029.18	-1302.68	-208.29	-116.28	-53.12	18.47
223	2	4	-908.35	1608.38	1.27	2	0.33	-716.22	-692.87	-884.99	-208.29	-116.28	-53.10	18.81
224	4	4	-1337.32	2325.78	1.27	14	0.50	-1063.67	-1029.01	-1302.66	-208.29	-116.28	-52.78	18.81
225	4	4	-1336.83	2096.23	1.41	14	0.50	-1064.48	-1030.30	-1302.65	-208.29	-116.28	-52.69	18.90
226	2	2	-668.54	1034.11	1.42	2	0.50	-532.42	-515.20	-651.32	-208.29	-116.28	-52.59	19.00
227	2	2	-668.49	1027.16	1.43	2	0.50	-532.22	-515.05	-651.32	-208.29	-116.28	-52.58	19.01
228	2	2	-668.48	1017.69	1.45	2	0.50	-532.35	-515.18	-651.31	-208.29	-116.28	-52.42	19.17
229	2	4	-908.32	1538.87	1.32	2	0.33	-718.56	-695.20	-884.97	-208.29	-116.28	-52.72	19.19
230	4	6	-1576.92	2603.29	1.35	2	0.40	-1250.05	-1209.41	-1536.28	-208.29	-116.28	-52.59	19.19
231	2	2	-668.57	1088.55	1.35	2	0.50	-531.97	-514.71	-651.31	-208.29	-116.28	-52.39	19.20

232	2	2	-668.64	991.56	1.49	2	0.50	-532.77	-515.44	-651.31	-208.29	-116.28	-52.38	19.21
233	4	6	-1576.87	2450.93	1.43	2	0.40	-1250.40	-1209.80	-1536.28	-208.29	-116.28	-52.56	19.22
234	4	6	-1576.40	2458.74	1.43	2	0.40	-1249.01	-1208.89	-1536.27	-208.29	-116.28	-52.52	19.26
235	2	2	-668.41	1006.45	1.46	2	0.50	-532.78	-515.68	-651.30	-208.29	-116.28	-52.20	19.39
236	2	2	-668.50	984.02	1.50	4	0.50	-532.63	-515.43	-651.30	-208.29	-116.28	-52.08	19.51
237	4	6	-1576.80	2546.03	1.38	2	0.40	-1249.38	-1208.81	-1536.24	-208.29	-116.28	-52.18	19.60
238	2	2	-668.69	1009.94	1.46	2	0.50	-532.60	-515.21	-651.29	-208.29	-116.28	-51.88	19.71
239	2	4	-908.22	1879.00	1.08	2	0.33	-715.77	-692.48	-884.94	-208.29	-116.28	-52.17	19.74
240	4	4	-1336.35	2096.46	1.41	14	0.50	-1063.36	-1029.59	-1302.58	-208.29	-116.28	-51.83	19.76
241	4	4	-1336.69	2064.61	1.43	14	0.50	-1064.08	-1029.97	-1302.57	-208.29	-116.28	-51.78	19.81
242	4	2	-1095.79	1827.66	1.30	2	0.67	-878.96	-850.60	-1067.43	-208.29	-116.28	-27.38	19.87
243	4	2	-1095.48	1831.47	1.30	4	0.67	-878.50	-850.45	-1067.43	-208.29	-116.28	-27.36	19.89
244	4	6	-1576.49	2546.42	1.38	2	0.40	-1249.93	-1209.65	-1536.21	-208.29	-116.28	-51.88	19.90
245	2	2	-668.66	1026.35	1.44	2	0.50	-532.35	-514.97	-651.28	-208.29	-116.28	-51.62	19.97
246	2	2	-668.57	979.51	1.50	2	0.50	-533.38	-516.09	-651.28	-208.29	-116.28	-51.58	20.01
247	4	4	-1337.00	2081.60	1.42	14	0.50	-1064.20	-1029.76	-1302.56	-208.29	-116.28	-51.56	20.03
248	2	2	-668.62	1013.75	1.45	2	0.50	-532.80	-515.45	-651.28	-208.29	-116.28	-51.52	20.07
249	2	2	-668.54	933.21	1.58	2	0.50	-532.76	-515.50	-651.28	-208.29	-116.28	-51.51	20.08
250	4	6	-1576.64	2468.58	1.42	2	0.40	-1249.09	-1208.63	-1536.18	-208.29	-116.28	-51.56	20.22
251	2	2	-668.57	1003.00	1.47	2	0.50	-532.79	-515.49	-651.27	-208.29	-116.28	-51.29	20.30
252	4	2	-1095.58	1637.31	1.45	4	0.67	-879.11	-850.93	-1067.40	-208.29	-116.28	-26.94	20.31
253	2	2	-668.60	950.07	1.55	2	0.50	-532.95	-515.61	-651.26	-208.29	-116.28	-51.25	20.34
254	4	6	-1576.78	2466.86	1.42	2	0.40	-1249.82	-1209.20	-1536.16	-208.29	-116.28	-51.43	20.35
255	4	4	-1337.24	1997.61	1.47	29	0.50	-1066.06	-1031.34	-1302.52	-208.29	-116.28	-51.18	20.41
256	2	4	-908.16	1652.79	1.23	2	0.33	-718.11	-694.84	-884.89	-208.29	-116.28	-51.43	20.48
257	2	2	-668.65	983.35	1.50	2	0.50	-532.78	-515.38	-651.25	-208.29	-116.28	-50.86	20.73
258	2	2	-668.56	955.02	1.54	2	0.50	-533.09	-515.78	-651.25	-208.29	-116.28	-50.84	20.75
259	2	2	-668.56	974.35	1.51	2	0.50	-532.79	-515.48	-651.25	-208.29	-116.28	-50.82	20.77
260	2	2	-668.60	1000.54	1.47	2	0.50	-532.45	-515.09	-651.24	-208.29	-116.28	-50.63	20.96
261	2	4	-908.29	1470.17	1.39	2	0.33	-717.27	-693.83	-884.85	-208.29	-116.28	-50.87	21.04
262	2	4	-908.14	1792.97	1.14	2	0.33	-715.67	-692.38	-884.85	-208.29	-116.28	-50.73	21.18
263	4	4	-1336.97	1935.33	1.52	33	0.50	-1066.17	-1031.65	-1302.46	-208.29	-116.28	-50.40	21.19
264	2	2	-668.61	1031.41	1.43	2	0.50	-532.39	-515.00	-651.22	-208.29	-116.28	-50.29	21.30
265	4	6	-1576.94	2527.47	1.39	2	0.40	-1250.70	-1209.82	-1536.06	-208.29	-116.28	-50.45	21.33
266	4	4	-1336.99	1927.31	1.53	14	0.50	-1066.19	-1031.65	-1302.45	-208.29	-116.28	-50.25	21.34
267	2	2	-668.75	980.53	1.50	2	0.50	-533.39	-515.86	-651.22	-208.29	-116.28	-50.20	21.39
268	2	2	-668.58	1033.75	1.42	2	0.50	-533.25	-515.89	-651.22	-208.29	-116.28	-50.08	21.51
269	4	4	-1336.90	1953.91	1.51	14	0.50	-1064.64	-1030.17	-1302.43	-208.29	-116.28	-50.03	21.56
270	6	4	-1764.05	2784.37	1.38	4	0.60	-1410.93	-1365.45	-1718.56	-208.29	-116.28	-35.65	21.62
271	4	4	-1336.71	2111.62	1.40	14	0.50	-1064.84	-1030.55	-1302.42	-208.29	-116.28	-49.95	21.64
272	2	4	-908.19	1597.24	1.28	2	0.33	-716.19	-692.81	-884.81	-208.29	-116.28	-50.19	21.72
273	2	4	-908.42	1493.20	1.36	2	0.33	-719.66	-696.04	-884.81	-208.29	-116.28	-50.08	21.83
274	2	2	-668.35	1096.95	1.34	2	0.50	-532.21	-515.06	-651.20	-208.29	-116.28	-49.73	21.86
275	2	2	-668.53	1073.37	1.37	2	0.50	-532.57	-515.25	-651.20	-208.29	-116.28	-49.71	21.88
276	2	4	-908.26	1415.61	1.44	2	0.33	-718.95	-695.49	-884.79	-208.29	-116.28	-49.90	22.01
277	2	2	-668.42	1025.68	1.44	2	0.50	-532.44	-515.22	-651.20	-208.29	-116.28	-49.58	22.01
278	2	2	-668.39	993.67	1.48	2	0.50	-532.29	-515.10	-651.19	-208.29	-116.28	-49.53	22.06
279	2	2	-668.41	978.88	1.50	2	0.50	-532.47	-515.25	-651.19	-208.29	-116.28	-49.47	22.12
280	2	2	-668.50	1106.29	1.33	2	0.50	-532.22	-514.91	-651.19	-208.29	-116.28	-49.44	22.15
281	2	2	-668.50	958.41	1.54	2	0.50	-532.91	-515.59	-651.19	-208.29	-116.28	-49.41	22.18
282	2	2	-668.61	997.04	1.48	2	0.50	-532.41	-514.99	-651.19	-208.29	-116.28	-49.34	22.25
283	2	2	-668.65	958.48	1.54	2	0.50	-532.89	-515.42	-651.18	-208.29	-116.28	-49.33	22.26
284	2	2	-668.38	990.56	1.49	2	0.50	-532.53	-515.33	-651.18	-208.29	-116.28	-49.21	22.38
285	4	6	-1576.32	2444.28	1.44	4	0.40	-1249.52	-1209.13	-1535.93	-208.29	-116.28	-49.19	22.59
286	2	2	-668.56	1007.31	1.46	2	0.50	-532.47	-515.07	-651.17	-208.29	-116.28	-48.97	22.62
287	2	2	-668.41	1035.06	1.42	2	0.50	-532.30	-515.06	-651.17	-208.29	-116.28	-48.91	22.68
288	4	4	-1336.82	1992.10	1.48	14	0.50	-1064.79	-1030.31	-1302.34	-208.29	-116.28	-48.91	22.68
289	2	2	-668.50	982.39	1.50	2	0.50	-532.60	-515.27	-651.17	-208.29	-116.28	-48.90	22.69
290	2	2	-668.39	1032.32	1.43	2	0.50	-532.26	-515.03	-651.16	-208.29	-116.28	-48.70	22.89

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291	2	2	-668.48	1070.89	1.38	2	0.50	-531.86	-514.54	-651.16	-208.29	-116.28	-48.67	22.92
292	2	4	-908.32	1629.45	1.25	2	0.33	-717.25	-693.66	-884.73	-208.29	-116.28	-48.92	22.99
293	4	2	-1095.48	1627.32	1.46	2	0.67	-879.53	-851.28	-1067.24	-208.29	-116.28	-24.24	23.01
294	2	4	-908.18	1890.99	1.08	2	0.33	-717.73	-694.28	-884.73	-208.29	-116.28	-48.89	23.02
295	2	2	-668.43	1040.75	1.42	2	0.50	-532.30	-515.01	-651.15	-208.29	-116.28	-48.44	23.15
296	2	4	-908.13	1631.30	1.25	2	0.33	-716.92	-693.51	-884.72	-208.29	-116.28	-48.69	23.22
297	2	2	-668.43	935.29	1.57	2	0.50	-532.72	-515.44	-651.14	-208.29	-116.28	-48.31	23.28
298	2	2	-668.45	1027.86	1.43	2	0.50	-532.27	-514.95	-651.14	-208.29	-116.28	-48.30	23.29
299	4	4	-1336.82	1901.53	1.55	14	0.50	-1066.58	-1032.05	-1302.29	-208.29	-116.28	-48.30	23.29
300	2	2	-668.61	999.55	1.47	2	0.50	-532.15	-514.68	-651.14	-208.29	-116.28	-48.25	23.34
301	4	2	-1095.48	1624.17	1.47	2	0.67	-879.50	-851.23	-1067.21	-208.29	-116.28	-23.88	23.37
302	2	2	-668.50	1016.88	1.45	2	0.50	-533.30	-515.94	-651.13	-208.29	-116.28	-48.10	23.49
303	4	2	-1095.75	1554.24	1.53	2	0.67	-880.25	-851.70	-1067.21	-208.29	-116.28	-23.76	23.49
304	4	2	-1095.53	1623.82	1.47	2	0.67	-879.49	-851.17	-1067.20	-208.29	-116.28	-23.71	23.54
305	2	2	-668.47	990.26	1.49	2	0.50	-532.81	-515.47	-651.13	-208.29	-116.28	-48.04	23.55
306	2	4	-908.27	1560.12	1.31	2	0.33	-718.69	-695.12	-884.70	-208.29	-116.28	-48.33	23.58
307	4	4	-1336.25	1936.08	1.52	14	0.50	-1064.95	-1030.96	-1302.26	-208.29	-116.28	-47.95	23.64
308	2	2	-668.52	1012.08	1.46	2	0.50	-533.10	-515.70	-651.13	-208.29	-116.28	-47.89	23.70
309	2	2	-668.23	1016.07	1.45	2	0.50	-532.70	-515.59	-651.12	-208.29	-116.28	-47.85	23.74
310	2	2	-668.37	1030.44	1.43	2	0.50	-532.33	-515.08	-651.12	-208.29	-116.28	-47.82	23.77
311	2	2	-668.51	1017.88	1.45	2	0.50	-532.77	-515.38	-651.12	-208.29	-116.28	-47.82	23.77
312	2	2	-668.53	1009.79	1.46	2	0.50	-532.45	-515.04	-651.12	-208.29	-116.28	-47.76	23.83
313	2	2	-668.62	1000.67	1.47	2	0.50	-532.72	-515.23	-651.12	-208.29	-116.28	-47.73	23.86
314	2	2	-668.47	1011.30	1.46	2	0.50	-532.10	-514.74	-651.12	-208.29	-116.28	-47.68	23.91
315	12	8	-3527.52	5407.88	1.43	14	0.60	-2820.53	-2729.65	-3436.64	-208.29	-116.28	-33.30	23.97
316	2	2	-668.56	991.36	1.49	2	0.50	-533.00	-515.55	-651.11	-208.29	-116.28	-47.60	23.99
317	2	2	-668.43	998.75	1.47	2	0.50	-532.62	-515.30	-651.11	-208.29	-116.28	-47.49	24.10
318	4	2	-1095.44	1614.11	1.47	2	0.67	-879.47	-851.19	-1067.16	-208.29	-116.28	-23.05	24.20
319	2	2	-668.39	983.23	1.50	2	0.50	-532.76	-515.48	-651.10	-208.29	-116.28	-47.29	24.30
320	2	2	-668.63	1021.87	1.44	2	0.50	-532.53	-515.00	-651.10	-208.29	-116.28	-47.25	24.34
321	2	2	-668.38	1007.86	1.46	2	0.50	-532.36	-515.06	-651.08	-208.29	-116.28	-46.89	24.70
322	2	2	-668.42	999.51	1.47	2	0.50	-532.19	-514.86	-651.08	-208.29	-116.28	-46.83	24.76
323	2	2	-668.49	1007.84	1.46	2	0.50	-531.51	-514.10	-651.08	-208.29	-116.28	-46.80	24.79
324	4	4	-1336.36	2193.78	1.34	14	0.50	-1063.91	-1029.70	-1302.15	-208.29	-116.28	-46.64	24.95
325	2	2	-668.07	1013.09	1.45	2	0.50	-532.27	-515.28	-651.07	-208.29	-116.28	-46.60	24.99
326	2	4	-907.94	1771.79	1.15	2	0.33	-716.12	-692.78	-884.61	-208.29	-116.28	-46.88	25.03
327	4	4	-1336.87	1903.18	1.55	14	0.50	-1063.98	-1029.25	-1302.14	-208.29	-116.28	-46.50	25.09
328	2	2	-668.40	989.31	1.49	2	0.50	-533.27	-515.93	-651.07	-208.29	-116.28	-46.50	25.09
329	4	4	-1336.41	2011.81	1.46	14	0.50	-1064.30	-1030.01	-1302.12	-208.29	-116.28	-46.29	25.30
330	4	4	-1336.68	1900.82	1.55	14	0.50	-1066.44	-1031.88	-1302.12	-208.29	-116.28	-46.27	25.32
331	2	2	-668.54	1139.44	1.29	2	0.50	-532.38	-514.90	-651.06	-208.29	-116.28	-46.24	25.35
332	6	4	-1763.53	2685.12	1.44	2	0.60	-1411.16	-1365.80	-1718.17	-208.29	-116.28	-31.88	25.39
333	4	2	-1095.47	1678.73	1.42	4	0.67	-878.88	-850.50	-1067.09	-208.29	-116.28	-21.86	25.39
334	2	2	-668.41	1054.30	1.40	2	0.50	-532.49	-515.13	-651.05	-208.29	-116.28	-46.15	25.44
335	12	8	-3527.45	5253.69	1.47	14	0.60	-2821.88	-2730.74	-3436.30	-208.29	-116.28	-31.65	25.62
336	2	2	-668.34	1013.66	1.45	2	0.50	-532.39	-515.10	-651.04	-208.29	-116.28	-45.90	25.69
337	6	4	-1763.44	2781.55	1.39	2	0.60	-1410.36	-1365.06	-1718.14	-208.29	-116.28	-31.57	25.70
338	2	2	-668.07	999.65	1.47	2	0.50	-531.59	-514.56	-651.04	-208.29	-116.28	-45.88	25.71
339	2	2	-668.40	1027.63	1.43	2	0.50	-532.17	-514.81	-651.04	-208.29	-116.28	-45.87	25.72
340	2	2	-668.58	961.78	1.53	2	0.50	-532.51	-514.98	-651.04	-208.29	-116.28	-45.85	25.74
341	2	4	-907.97	1715.73	1.19	2	0.33	-716.54	-693.13	-884.56	-208.29	-116.28	-46.11	25.80
342	2	2	-668.27	959.66	1.53	2	0.50	-532.61	-515.38	-651.04	-208.29	-116.28	-45.78	25.81
343	2	2	-668.42	983.05	1.50	2	0.50	-532.90	-515.51	-651.04	-208.29	-116.28	-45.78	25.81
344	4	4	-1336.42	2039.09	1.44	14	0.50	-1064.55	-1030.20	-1302.07	-208.29	-116.28	-45.66	25.93
345	2	2	-668.33	1026.30	1.44	2	0.50	-532.11	-514.81	-651.03	-208.29	-116.28	-45.64	25.95
346	2	2	-668.01	1070.12	1.38	2	0.50	-531.85	-514.88	-651.03	-208.29	-116.28	-45.57	26.02
347	4	4	-1336.38	2139.35	1.38	14	0.50	-1064.44	-1030.11	-1302.05	-208.29	-116.28	-45.53	26.06
348	4	2	-1095.45	1680.24	1.42	4	0.67	-878.89	-850.49	-1067.05	-208.29	-116.28	-21.17	26.08
349	4	2	-1095.47	1676.86	1.42	4	0.67	-878.87	-850.45	-1067.05	-208.29	-116.28	-21.17	26.08

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350	4	4	-1336.67	2199.67	1.34	14	0.50	-1064.05	-1029.43	-1302.05	-208.29	-116.28	-45.46	26.13
351	4	2	-1095.34	1634.74	1.46	2	0.67	-879.06	-850.77	-1067.04	-208.29	-116.28	-21.09	26.16
352	2	2	-668.19	983.49	1.50	2	0.50	-532.46	-515.29	-651.02	-208.29	-116.28	-45.39	26.20
353	2	2	-668.05	1133.69	1.30	2	0.50	-531.43	-514.40	-651.02	-208.29	-116.28	-45.36	26.23
354	2	2	-668.30	982.92	1.50	2	0.50	-532.48	-515.20	-651.02	-208.29	-116.28	-45.32	26.27
355	6	4	-1763.55	2797.93	1.38	2	0.60	-1410.83	-1365.36	-1718.08	-208.29	-116.28	-30.99	26.28
356	12	8	-3526.19	5696.66	1.35	14	0.60	-2818.79	-2728.75	-3436.16	-208.29	-116.28	-30.97	26.30
357	6	4	-1763.22	2929.58	1.32	4	0.60	-1410.43	-1365.29	-1718.08	-208.29	-116.28	-30.96	26.31
358	2	2	-668.47	1047.84	1.41	2	0.50	-532.61	-515.16	-651.01	-208.29	-116.28	-45.17	26.42
359	12	8	-3526.49	5266.23	1.46	14	0.60	-2821.05	-2730.68	-3436.12	-208.29	-116.28	-30.78	26.49
360	2	2	-668.28	968.17	1.52	2	0.50	-532.78	-515.51	-651.00	-208.29	-116.28	-44.97	26.62
361	6	4	-1763.13	2884.41	1.34	4	0.60	-1409.98	-1364.89	-1718.04	-208.29	-116.28	-30.63	26.64
362	2	2	-668.48	991.30	1.49	2	0.50	-532.01	-514.53	-651.00	-208.29	-116.28	-44.84	26.75
363	2	2	-668.29	1029.47	1.43	2	0.50	-532.58	-515.29	-651.00	-208.29	-116.28	-44.79	26.80
364	2	2	-668.47	980.58	1.50	2	0.50	-532.18	-514.71	-650.99	-208.29	-116.28	-44.73	26.86
365	2	2	-668.36	1009.40	1.46	2	0.50	-532.86	-515.50	-650.99	-208.29	-116.28	-44.70	26.89
366	4	4	-1336.27	2100.04	1.40	14	0.50	-1063.43	-1029.14	-1301.98	-208.29	-116.28	-44.64	26.95
367	2	2	-668.49	1090.74	1.35	2	0.50	-532.46	-514.96	-650.99	-208.29	-116.28	-44.61	26.98
368	2	2	-668.40	993.37	1.48	2	0.50	-532.57	-515.16	-650.99	-208.29	-116.28	-44.61	26.98
369	2	2	-668.20	1001.50	1.47	2	0.50	-532.86	-515.65	-650.99	-208.29	-116.28	-44.51	27.08
370	4	2	-1095.24	1829.14	1.30	4	0.67	-878.75	-850.49	-1066.98	-208.29	-116.28	-20.07	27.18
371	4	4	-1336.26	2076.81	1.42	14	0.50	-1064.71	-1030.41	-1301.96	-208.29	-116.28	-44.40	27.19
372	2	2	-668.31	1012.64	1.45	2	0.50	-532.75	-515.42	-650.98	-208.29	-116.28	-44.38	27.21
373	2	2	-668.36	1038.31	1.42	2	0.50	-531.91	-514.53	-650.98	-208.29	-116.28	-44.31	27.28
374	4	4	-1336.73	2046.73	1.44	14	0.50	-1063.43	-1028.66	-1301.95	-208.29	-116.28	-44.29	27.30
375	4	4	-1335.98	2015.70	1.46	14	0.50	-1063.01	-1028.98	-1301.95	-208.29	-116.28	-44.26	27.33
376	4	4	-1335.96	1973.76	1.49	14	0.50	-1063.83	-1029.82	-1301.95	-208.29	-116.28	-44.26	27.33
377	6	4	-1763.07	2779.99	1.39	4	0.60	-1411.43	-1366.32	-1717.95	-208.29	-116.28	-29.78	27.49
378	12	8	-3525.73	5680.40	1.36	14	0.60	-2820.48	-2730.66	-3435.91	-208.29	-116.28	-29.77	27.50
379	4	4	-1336.09	2151.02	1.37	14	0.50	-1063.84	-1029.69	-1301.93	-208.29	-116.28	-44.07	27.52
380	4	2	-1095.25	1734.02	1.37	4	0.67	-878.85	-850.55	-1066.95	-208.29	-116.28	-19.72	27.53
381	2	2	-668.23	1068.67	1.38	2	0.50	-532.18	-514.92	-650.97	-208.29	-116.28	-44.04	27.55
382	4	2	-1095.26	1734.13	1.37	4	0.67	-878.87	-850.56	-1066.95	-208.29	-116.28	-19.66	27.59
383	4	6	-1576.04	2522.61	1.39	2	0.40	-1248.71	-1208.08	-1535.41	-208.29	-116.28	-44.17	27.61
384	2	2	-668.31	1041.55	1.41	2	0.50	-532.15	-514.80	-650.96	-208.29	-116.28	-43.90	27.69
385	4	2	-1095.26	1734.03	1.37	4	0.67	-878.85	-850.54	-1066.94	-208.29	-116.28	-19.53	27.72
386	2	2	-668.36	1048.04	1.41	2	0.50	-532.32	-514.92	-650.96	-208.29	-116.28	-43.82	27.77
387	4	2	-1095.15	1642.90	1.45	4	0.67	-878.77	-850.56	-1066.94	-208.29	-116.28	-19.47	27.78
388	2	2	-668.21	1069.26	1.38	2	0.50	-532.06	-514.80	-650.96	-208.29	-116.28	-43.80	27.79
389	6	4	-1763.00	2769.18	1.39	4	0.60	-1410.49	-1365.41	-1717.91	-208.29	-116.28	-29.37	27.90
390	2	2	-668.38	1021.66	1.44	2	0.50	-532.88	-515.45	-650.95	-208.29	-116.28	-43.65	27.94
391	4	4	-1335.84	2135.52	1.38	14	0.50	-1063.14	-1029.19	-1301.90	-208.29	-116.28	-43.64	27.95
392	4	4	-1336.10	1985.88	1.48	14	0.50	-1065.39	-1031.18	-1301.90	-208.29	-116.28	-43.64	27.95
393	6	4	-1762.89	2795.78	1.38	2	0.60	-1409.24	-1364.25	-1717.90	-208.29	-116.28	-29.25	28.02
394	4	4	-1336.27	1922.16	1.53	14	0.50	-1065.04	-1030.66	-1301.89	-208.29	-116.28	-43.56	28.03
395	4	2	-1095.10	1668.56	1.43	4	0.67	-878.58	-850.39	-1066.92	-208.29	-116.28	-19.16	28.09
396	2	2	-668.28	1001.00	1.47	2	0.50	-531.70	-514.37	-650.94	-208.29	-116.28	-43.47	28.12
397	4	2	-1095.14	1650.89	1.44	4	0.67	-879.12	-850.89	-1066.92	-208.29	-116.28	-19.08	28.17
398	2	2	-668.03	1016.53	1.45	2	0.50	-532.25	-515.15	-650.94	-208.29	-116.28	-43.40	28.19
399	4	4	-1336.47	1939.46	1.52	14	0.50	-1066.17	-1031.57	-1301.88	-208.29	-116.28	-43.39	28.20
400	4	4	-1336.28	1971.57	1.49	33	0.50	-1065.50	-1031.10	-1301.88	-208.29	-116.28	-43.37	28.22
401	6	4	-1763.29	2693.86	1.43	2	0.60	-1410.79	-1365.38	-1717.88	-208.29	-116.28	-29.01	28.26
402	2	4	-907.82	1550.54	1.31	2	0.33	-717.37	-693.96	-884.40	-208.29	-116.28	-43.63	28.28
403	2	2	-668.32	995.70	1.48	2	0.50	-532.60	-515.21	-650.93	-208.29	-116.28	-43.26	28.33
404	2	2	-668.18	976.36	1.51	2	0.50	-532.32	-515.07	-650.93	-208.29	-116.28	-43.12	28.47
405	2	4	-907.97	2006.58	1.02	2	0.33	-718.70	-695.12	-884.39	-208.29	-116.28	-43.40	28.51
406	4	2	-1095.16	1647.61	1.44	4	0.67	-879.14	-850.88	-1066.89	-208.29	-116.28	-18.74	28.51
407	4	2	-1095.13	1687.48	1.41	2	0.67	-878.15	-849.91	-1066.89	-208.29	-116.28	-18.68	28.57
408	6	4	-1763.35	2844.19	1.35	2	0.60	-1410.50	-1364.99	-1717.84	-208.29	-116.28	-28.65	28.62

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409	4	2	-1094.94	1625.86	1.46	4	0.67	-878.63	-850.57	-1066.89	-208.29	-116.28	-18.59	28.66
410	2	2	-668.36	1002.05	1.47	2	0.50	-533.02	-515.58	-650.92	-208.29	-116.28	-42.89	28.70
411	2	4	-907.81	1806.12	1.13	2	0.33	-717.08	-693.65	-884.38	-208.29	-116.28	-43.20	28.71
412	4	2	-1095.14	1649.29	1.44	4	0.67	-879.12	-850.86	-1066.88	-208.29	-116.28	-18.48	28.77
413	12	8	-3525.46	5531.27	1.39	14	0.60	-2821.76	-2731.94	-3435.64	-208.29	-116.28	-28.46	28.81
414	2	2	-668.10	958.98	1.54	2	0.50	-532.33	-515.15	-650.91	-208.29	-116.28	-42.77	28.82
415	4	2	-1094.99	1774.57	1.34	2	0.67	-877.71	-849.59	-1066.87	-208.29	-116.28	-18.39	28.86
416	6	4	-1762.71	2691.05	1.43	4	0.60	-1409.96	-1365.06	-1717.81	-208.29	-116.28	-28.37	28.90
417	4	2	-1095.14	1644.17	1.45	4	0.67	-879.13	-850.86	-1066.87	-208.29	-116.28	-18.35	28.90
418	4	2	-1094.98	1840.88	1.29	7	0.67	-879.15	-851.03	-1066.86	-208.29	-116.28	-18.21	29.04
419	2	2	-668.35	1016.55	1.45	2	0.50	-532.04	-514.60	-650.90	-208.29	-116.28	-42.53	29.06
420	12	8	-3526.62	5450.76	1.41	14	0.60	-2819.84	-2728.80	-3435.58	-208.29	-116.28	-28.19	29.08
421	6	4	-1763.38	2833.25	1.36	4	0.60	-1409.92	-1364.32	-1717.78	-208.29	-116.28	-28.13	29.14
422	2	2	-668.18	1053.11	1.40	2	0.50	-532.62	-515.33	-650.90	-208.29	-116.28	-42.34	29.25
423	6	4	-1763.00	2797.17	1.38	2	0.60	-1409.46	-1364.23	-1717.77	-208.29	-116.28	-28.00	29.27
424	4	2	-1095.25	1732.58	1.37	4	0.67	-878.84	-850.43	-1066.84	-208.29	-116.28	-17.91	29.34
425	2	2	-668.20	991.48	1.49	2	0.50	-532.30	-514.99	-650.89	-208.29	-116.28	-42.22	29.37
426	4	2	-1095.00	1772.56	1.34	2	0.67	-877.73	-849.57	-1066.84	-208.29	-116.28	-17.86	29.39
427	4	2	-1094.97	1836.46	1.30	7	0.67	-879.13	-850.99	-1066.84	-208.29	-116.28	-17.80	29.45
428	2	2	-668.15	993.23	1.48	2	0.50	-532.49	-515.23	-650.88	-208.29	-116.28	-42.01	29.58
429	2	2	-668.24	1044.79	1.41	2	0.50	-532.56	-515.20	-650.88	-208.29	-116.28	-42.00	29.59
430	12	8	-3525.82	5443.09	1.42	14	0.60	-2821.28	-2730.93	-3435.47	-208.29	-116.28	-27.68	29.59
431	4	2	-1094.99	1839.30	1.29	7	0.67	-879.12	-850.95	-1066.82	-208.29	-116.28	-17.52	29.73
432	2	2	-668.35	980.56	1.50	2	0.50	-532.94	-515.47	-650.87	-208.29	-116.28	-41.83	29.76
433	2	2	-668.10	965.94	1.52	7	0.50	-532.23	-515.00	-650.87	-208.29	-116.28	-41.81	29.78
434	4	2	-1094.98	1837.43	1.30	7	0.67	-879.06	-850.89	-1066.81	-208.29	-116.28	-17.41	29.84
435	2	2	-668.14	1021.31	1.44	2	0.50	-532.08	-514.80	-650.87	-208.29	-116.28	-41.65	29.94
436	4	4	-1336.13	2217.26	1.33	14	0.50	-1062.44	-1028.05	-1301.73	-208.29	-116.28	-41.63	29.96
437	4	4	-1336.14	1982.14	1.49	33	0.50	-1063.39	-1028.97	-1301.73	-208.29	-116.28	-41.56	30.03
438	2	2	-667.99	1105.85	1.33	2	0.50	-531.10	-513.97	-650.86	-208.29	-116.28	-41.53	30.06
439	2	2	-667.87	1076.24	1.37	2	0.50	-532.08	-515.07	-650.86	-208.29	-116.28	-41.48	30.11
440	2	2	-668.00	1032.31	1.43	2	0.50	-532.00	-514.85	-650.86	-208.29	-116.28	-41.46	30.13
441	2	2	-668.30	1272.31	1.16	2	0.50	-532.00	-514.55	-650.86	-208.29	-116.28	-41.40	30.19
442	2	2	-668.29	989.53	1.49	2	0.50	-532.53	-515.10	-650.86	-208.29	-116.28	-41.38	30.21
443	2	2	-668.09	1013.49	1.45	2	0.50	-533.06	-515.82	-650.86	-208.29	-116.28	-41.37	30.22
444	8	4	-2189.91	3858.34	1.23	14	0.67	-1756.60	-1700.27	-2133.58	-208.29	-116.28	-17.03	30.22
445	4	2	-1095.14	1597.93	1.49	4	0.67	-878.93	-850.58	-1066.79	-208.29	-116.28	-17.03	30.22
446	2	2	-668.04	1099.82	1.34	2	0.50	-532.06	-514.88	-650.85	-208.29	-116.28	-41.33	30.26
447	12	8	-3525.97	5637.89	1.37	14	0.60	-2820.09	-2729.44	-3435.33	-208.29	-116.28	-26.97	30.30
448	2	2	-668.18	988.55	1.49	2	0.50	-532.80	-515.47	-650.84	-208.29	-116.28	-41.07	30.52
449	6	4	-1763.01	2786.92	1.38	4	0.60	-1409.89	-1364.51	-1717.63	-208.29	-116.28	-26.65	30.62
450	4	2	-1094.87	1826.02	1.30	4	0.67	-878.24	-850.13	-1066.76	-208.29	-116.28	-16.62	30.63
451	2	2	-668.08	1004.58	1.47	2	0.50	-531.92	-514.67	-650.84	-208.29	-116.28	-40.92	30.67
452	4	2	-1095.02	1708.00	1.39	2	0.67	-878.67	-850.41	-1066.76	-208.29	-116.28	-16.58	30.67
453	4	4	-1335.85	2057.60	1.43	14	0.50	-1063.77	-1029.59	-1301.67	-208.29	-116.28	-40.90	30.69
454	2	2	-668.13	986.30	1.49	2	0.50	-532.54	-515.25	-650.83	-208.29	-116.28	-40.83	30.76
455	4	4	-1335.92	2034.64	1.45	14	0.50	-1063.36	-1029.10	-1301.66	-208.29	-116.28	-40.75	30.84
456	2	2	-668.13	1085.89	1.36	2	0.50	-532.22	-514.92	-650.83	-208.29	-116.28	-40.75	30.84
457	6	4	-1762.95	2725.23	1.41	4	0.60	-1411.02	-1365.68	-1717.60	-208.29	-116.28	-26.40	30.87
458	2	2	-668.16	978.75	1.50	2	0.50	-532.43	-515.09	-650.83	-208.29	-116.28	-40.68	30.91
459	2	2	-667.92	1068.00	1.38	2	0.50	-532.15	-515.06	-650.82	-208.29	-116.28	-40.59	31.00
460	2	2	-668.27	1040.01	1.42	2	0.50	-532.06	-514.61	-650.82	-208.29	-116.28	-40.59	31.00
461	4	2	-1094.97	1831.00	1.30	4	0.67	-879.11	-850.88	-1066.74	-208.29	-116.28	-16.24	31.01
462	4	4	-1336.12	2166.84	1.36	29	0.50	-1063.12	-1028.64	-1301.64	-208.29	-116.28	-40.54	31.05
463	4	4	-1336.32	2014.02	1.46	14	0.50	-1066.08	-1031.39	-1301.63	-208.29	-116.28	-40.45	31.14
464	6	4	-1762.71	2742.74	1.41	2	0.60	-1410.77	-1365.64	-1717.58	-208.29	-116.28	-26.12	31.15
465	4	2	-1094.95	1832.60	1.30	4	0.67	-879.11	-850.88	-1066.73	-208.29	-116.28	-16.09	31.16
466	2	2	-668.00	1036.92	1.42	2	0.50	-532.73	-515.54	-650.81	-208.29	-116.28	-40.38	31.21
467	2	2	-668.11	978.13	1.51	2	0.50	-532.38	-515.09	-650.81	-208.29	-116.28	-40.36	31.23

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468	2	2	-668.00	1052.49	1.40	2	0.50	-532.16	-514.98	-650.81	-208.29	-116.28	-40.35	31.24
469	2	2	-668.17	1005.99	1.46	2	0.50	-532.24	-514.87	-650.81	-208.29	-116.28	-40.18	31.41
470	4	4	-1335.78	2011.71	1.46	14	0.50	-1064.73	-1030.56	-1301.61	-208.29	-116.28	-40.13	31.46
471	4	2	-1095.26	1623.39	1.47	2	0.67	-878.95	-850.40	-1066.71	-208.29	-116.28	-15.78	31.47
472	2	2	-668.19	1028.16	1.43	2	0.50	-532.87	-515.48	-650.80	-208.29	-116.28	-40.09	31.50
473	2	2	-668.08	945.31	1.56	2	0.50	-532.30	-515.03	-650.80	-208.29	-116.28	-40.05	31.54
474	4	4	-1336.10	2404.34	1.23	14	0.50	-1064.20	-1029.69	-1301.59	-208.29	-116.28	-39.98	31.61
475	4	4	-1335.92	2084.77	1.41	14	0.50	-1064.16	-1029.83	-1301.59	-208.29	-116.28	-39.96	31.63
476	12	8	-3525.91	5672.44	1.36	14	0.60	-2821.00	-2730.14	-3435.05	-208.29	-116.28	-25.61	31.66
477	2	2	-668.08	1006.35	1.46	2	0.50	-532.65	-515.37	-650.79	-208.29	-116.28	-39.92	31.67
478	2	2	-668.00	997.05	1.48	2	0.50	-532.12	-514.92	-650.79	-208.29	-116.28	-39.85	31.74
479	2	2	-668.10	986.92	1.49	2	0.50	-532.19	-514.88	-650.79	-208.29	-116.28	-39.83	31.76
480	2	2	-668.14	1019.25	1.45	2	0.50	-532.35	-515.00	-650.79	-208.29	-116.28	-39.78	31.81
481	2	2	-668.14	1014.59	1.45	2	0.50	-532.27	-514.92	-650.79	-208.29	-116.28	-39.77	31.82
482	4	4	-1336.01	2327.45	1.27	14	0.50	-1063.97	-1029.53	-1301.58	-208.29	-116.28	-39.77	31.82
483	2	4	-907.69	1777.74	1.15	2	0.33	-715.99	-692.49	-884.18	-208.29	-116.28	-40.08	31.83
484	2	2	-668.21	1129.26	1.30	2	0.50	-532.85	-515.43	-650.79	-208.29	-116.28	-39.69	31.90
485	6	4	-1762.89	2876.06	1.34	2	0.60	-1410.49	-1365.10	-1717.50	-208.29	-116.28	-25.34	31.93
486	2	2	-668.24	968.51	1.52	2	0.50	-532.31	-514.86	-650.78	-208.29	-116.28	-39.56	32.03
487	2	2	-668.00	981.52	1.50	2	0.50	-532.30	-515.08	-650.78	-208.29	-116.28	-39.52	32.07
488	4	4	-1336.43	1978.25	1.49	14	0.50	-1064.89	-1030.02	-1301.56	-208.29	-116.28	-39.50	32.09
489	2	2	-667.95	983.58	1.50	2	0.50	-532.57	-515.40	-650.78	-208.29	-116.28	-39.48	32.11
490	2	2	-668.18	1121.32	1.31	2	0.50	-532.73	-515.33	-650.77	-208.29	-116.28	-39.42	32.17
491	4	4	-1336.04	2008.62	1.47	14	0.50	-1065.09	-1030.60	-1301.55	-208.29	-116.28	-39.41	32.18
492	4	2	-1094.89	1851.92	1.29	2	0.67	-878.16	-849.94	-1066.66	-208.29	-116.28	-15.04	32.21
493	2	2	-667.99	1102.81	1.34	2	0.50	-531.69	-514.48	-650.77	-208.29	-116.28	-39.36	32.23
494	4	2	-1095.01	1770.87	1.34	2	0.67	-878.61	-850.25	-1066.66	-208.29	-116.28	-14.97	32.28
495	2	2	-667.90	1077.76	1.37	2	0.50	-531.45	-514.31	-650.77	-208.29	-116.28	-39.28	32.31
496	6	4	-1762.93	2810.91	1.37	4	0.60	-1410.43	-1364.95	-1717.45	-208.29	-116.28	-24.95	32.32
497	6	4	-1762.75	2806.94	1.37	4	0.60	-1410.22	-1364.90	-1717.44	-208.29	-116.28	-24.79	32.48
498	2	2	-667.88	1074.30	1.37	2	0.50	-531.68	-514.55	-650.76	-208.29	-116.28	-39.07	32.52
499	4	4	-1336.34	1952.06	1.51	14	0.50	-1063.85	-1029.02	-1301.52	-208.29	-116.28	-39.04	32.55
500	4	4	-1335.62	1997.82	1.47	33	0.50	-1064.51	-1030.40	-1301.51	-208.29	-116.28	-39.01	32.58
501	2	2	-668.14	1010.85	1.46	2	0.50	-532.46	-515.08	-650.76	-208.29	-116.28	-39.01	32.58
502	2	2	-667.88	1044.97	1.41	2	0.50	-532.34	-515.22	-650.76	-208.29	-116.28	-39.01	32.58
503	12	8	-3525.87	5493.15	1.40	14	0.60	-2820.30	-2729.29	-3434.86	-208.29	-116.28	-24.69	32.58
504	4	4	-1335.87	2147.25	1.37	14	0.50	-1063.61	-1029.25	-1301.51	-208.29	-116.28	-38.97	32.62
505	4	2	-1094.98	1735.26	1.37	4	0.67	-878.56	-850.22	-1066.64	-208.29	-116.28	-14.63	32.62
506	2	2	-667.88	977.46	1.51	2	0.50	-531.97	-514.85	-650.76	-208.29	-116.28	-38.96	32.63
507	6	4	-1762.86	2834.13	1.36	2	0.60	-1410.23	-1364.79	-1717.42	-208.29	-116.28	-24.59	32.68
508	4	2	-1094.83	1717.77	1.39	4	0.67	-877.93	-849.74	-1066.63	-208.29	-116.28	-14.57	32.68
509	6	4	-1762.37	2943.26	1.31	2	0.60	-1410.14	-1365.19	-1717.41	-208.29	-116.28	-24.50	32.77
510	4	4	-1335.92	2136.70	1.38	14	0.50	-1065.18	-1030.76	-1301.50	-208.29	-116.28	-38.79	32.80
511	2	2	-667.99	1013.88	1.45	2	0.50	-531.85	-514.60	-650.75	-208.29	-116.28	-38.78	32.81
512	2	2	-667.86	1075.26	1.37	2	0.50	-530.81	-513.70	-650.75	-208.29	-116.28	-38.73	32.86
513	2	2	-667.78	1079.98	1.36	2	0.50	-531.58	-514.56	-650.75	-208.29	-116.28	-38.73	32.86
514	4	2	-1094.85	1806.85	1.32	4	0.67	-879.20	-850.97	-1066.62	-208.29	-116.28	-14.36	32.89
515	2	2	-668.13	1243.65	1.18	2	0.50	-532.17	-514.78	-650.74	-208.29	-116.28	-38.69	32.90
516	2	2	-667.87	939.12	1.57	2	0.50	-532.88	-515.75	-650.74	-208.29	-116.28	-38.67	32.92
517	4	2	-1095.05	1785.36	1.33	4	0.67	-879.12	-850.68	-1066.62	-208.29	-116.28	-14.29	32.96
518	4	4	-1335.71	2135.04	1.38	14	0.50	-1062.99	-1028.77	-1301.48	-208.29	-116.28	-38.61	32.98
519	4	4	-1336.34	2051.09	1.44	29	0.50	-1064.51	-1029.65	-1301.48	-208.29	-116.28	-38.55	33.04
520	2	2	-667.96	1110.13	1.33	2	0.50	-532.37	-515.15	-650.74	-208.29	-116.28	-38.48	33.11
521	4	4	-1335.33	2049.44	1.44	14	0.50	-1064.34	-1030.49	-1301.47	-208.29	-116.28	-38.48	33.11
522	4	2	-1095.00	1754.96	1.36	4	0.67	-879.29	-850.90	-1066.61	-208.29	-116.28	-14.13	33.12
523	2	2	-668.00	1129.55	1.30	2	0.50	-530.80	-513.53	-650.73	-208.29	-116.28	-38.41	33.18
524	4	2	-1094.90	1654.39	1.44	2	0.67	-879.01	-850.71	-1066.60	-208.29	-116.28	-13.98	33.27
525	6	4	-1762.60	2895.08	1.33	4	0.60	-1409.69	-1364.44	-1717.35	-208.29	-116.28	-23.97	33.30
526	2	2	-667.90	1070.25	1.38	2	0.50	-532.01	-514.83	-650.72	-208.29	-116.28	-38.14	33.45

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527	4	4	-1335.55	2164.05	1.36	14	0.50	-1062.51	-1028.39	-1301.44	-208.29	-116.28	-38.06	33.53
528	6	4	-1762.47	2826.59	1.36	2	0.60	-1409.61	-1364.46	-1717.32	-208.29	-116.28	-23.66	33.61
529	4	2	-1094.69	1677.76	1.42	2	0.67	-878.65	-850.54	-1066.57	-208.29	-116.28	-13.61	33.64
530	2	2	-668.03	943.01	1.56	2	0.50	-532.87	-515.54	-650.71	-208.29	-116.28	-37.78	33.81
531	4	4	-1335.63	1968.79	1.50	14	0.50	-1064.68	-1030.47	-1301.41	-208.29	-116.28	-37.75	33.84
532	4	4	-1335.91	2106.25	1.40	14	0.50	-1063.80	-1029.30	-1301.41	-208.29	-116.28	-37.74	33.85
533	2	2	-667.93	1052.53	1.40	2	0.50	-531.83	-514.60	-650.70	-208.29	-116.28	-37.65	33.94
534	2	2	-668.00	1050.11	1.40	2	0.50	-532.29	-514.99	-650.70	-208.29	-116.28	-37.63	33.96
535	4	2	-1094.60	1701.72	1.40	7	0.67	-878.31	-850.26	-1066.55	-208.29	-116.28	-13.28	33.97
536	4	4	-1335.22	2053.73	1.43	14	0.50	-1062.68	-1028.85	-1301.39	-208.29	-116.28	-37.55	34.04
537	2	2	-668.09	1140.18	1.29	2	0.50	-531.55	-514.16	-650.70	-208.29	-116.28	-37.54	34.05
538	4	2	-1094.68	1660.12	1.43	2	0.67	-878.75	-850.62	-1066.55	-208.29	-116.28	-13.14	34.11
539	4	4	-1335.85	2010.88	1.46	14	0.50	-1065.44	-1030.98	-1301.39	-208.29	-116.28	-37.47	34.12
540	6	4	-1762.56	2832.58	1.36	4	0.60	-1410.19	-1364.89	-1717.26	-208.29	-116.28	-23.07	34.20
541	4	4	-1335.53	2276.32	1.29	29	0.50	-1063.59	-1029.45	-1301.38	-208.29	-116.28	-37.37	34.22
542	4	2	-1094.70	1658.35	1.44	2	0.67	-878.74	-850.58	-1066.54	-208.29	-116.28	-12.97	34.28
543	4	2	-1094.63	1684.91	1.41	2	0.67	-878.69	-850.59	-1066.53	-208.29	-116.28	-12.91	34.34
544	4	2	-1094.73	1657.11	1.44	2	0.67	-878.67	-850.48	-1066.53	-208.29	-116.28	-12.91	34.34
545	2	2	-668.01	975.26	1.51	2	0.50	-532.32	-515.00	-650.68	-208.29	-116.28	-37.23	34.36
546	2	2	-668.07	1023.34	1.44	2	0.50	-532.77	-515.39	-650.68	-208.29	-116.28	-37.23	34.36
547	4	2	-1094.70	1660.68	1.43	2	0.67	-878.42	-850.24	-1066.52	-208.29	-116.28	-12.74	34.51
548	4	2	-1094.70	1688.90	1.41	2	0.67	-878.42	-850.24	-1066.52	-208.29	-116.28	-12.71	34.54
549	12	8	-3525.11	5778.08	1.33	14	0.60	-2822.18	-2731.53	-3434.45	-208.29	-116.28	-22.71	34.56
550	4	2	-1094.68	1689.32	1.41	2	0.67	-878.42	-850.25	-1066.51	-208.29	-116.28	-12.62	34.63
551	4	4	-1335.99	2067.90	1.42	14	0.50	-1064.79	-1030.15	-1301.34	-208.29	-116.28	-36.90	34.69
552	2	4	-907.92	1834.58	1.11	2	0.33	-718.80	-694.89	-884.00	-208.29	-116.28	-37.20	34.71
553	2	2	-667.94	1058.36	1.39	2	0.50	-531.14	-513.86	-650.67	-208.29	-116.28	-36.87	34.72
554	4	4	-1335.89	2067.33	1.42	14	0.50	-1064.44	-1029.89	-1301.34	-208.29	-116.28	-36.85	34.74
555	4	4	-1336.15	2086.43	1.41	29	0.50	-1063.73	-1028.91	-1301.33	-208.29	-116.28	-36.79	34.80
556	2	2	-668.06	1047.08	1.41	2	0.50	-531.90	-514.51	-650.66	-208.29	-116.28	-36.76	34.83
557	4	2	-1094.60	1726.04	1.38	4	0.67	-879.03	-850.93	-1066.50	-208.29	-116.28	-12.40	34.85
558	2	2	-668.07	968.96	1.52	2	0.50	-532.49	-515.09	-650.66	-208.29	-116.28	-36.73	34.86
559	4	2	-1094.71	1691.80	1.41	2	0.67	-878.49	-850.27	-1066.50	-208.29	-116.28	-12.36	34.89
560	2	2	-668.07	1012.53	1.45	4	0.50	-532.39	-514.98	-650.66	-208.29	-116.28	-36.68	34.91
561	4	2	-1094.67	1660.97	1.43	2	0.67	-878.76	-850.58	-1066.50	-208.29	-116.28	-12.33	34.92
562	2	2	-667.77	1043.22	1.41	2	0.50	-532.13	-515.02	-650.66	-208.29	-116.28	-36.65	34.94
563	2	2	-668.28	1018.06	1.45	2	0.50	-532.79	-515.17	-650.66	-208.29	-116.28	-36.62	34.97
564	12	8	-3524.26	5695.97	1.35	14	0.60	-2818.52	-2728.61	-3434.36	-208.29	-116.28	-22.29	34.98
565	2	2	-668.00	1060.45	1.39	2	0.50	-532.03	-514.69	-650.65	-208.29	-116.28	-36.53	35.06
566	4	4	-1335.85	2113.72	1.39	14	0.50	-1063.58	-1029.04	-1301.31	-208.29	-116.28	-36.52	35.07
567	4	4	-1335.73	2067.10	1.43	14	0.50	-1063.76	-1029.34	-1301.31	-208.29	-116.28	-36.51	35.08
568	4	2	-1094.67	1661.59	1.43	2	0.67	-878.66	-850.47	-1066.49	-208.29	-116.28	-12.17	35.08
569	4	2	-1094.66	1768.58	1.35	2	0.67	-878.11	-849.94	-1066.48	-208.29	-116.28	-12.15	35.10
570	4	2	-1094.64	1687.09	1.41	2	0.67	-878.70	-850.54	-1066.48	-208.29	-116.28	-12.14	35.11
571	12	8	-3525.09	5424.54	1.42	14	0.60	-2817.65	-2726.89	-3434.33	-208.29	-116.28	-22.14	35.13
572	6	4	-1762.62	2888.65	1.33	2	0.60	-1410.99	-1365.53	-1717.16	-208.29	-116.28	-22.11	35.16
573	4	2	-1094.69	1687.32	1.41	2	0.67	-878.45	-850.24	-1066.48	-208.29	-116.28	-12.09	35.16
574	2	2	-667.73	1069.37	1.38	2	0.50	-531.88	-514.80	-650.65	-208.29	-116.28	-36.36	35.23
575	12	8	-3524.31	5739.62	1.34	14	0.60	-2819.85	-2729.81	-3434.26	-208.29	-116.28	-21.84	35.43
576	2	2	-667.96	972.27	1.51	2	0.50	-532.73	-515.41	-650.63	-208.29	-116.28	-36.05	35.54
577	2	2	-667.93	1049.46	1.40	2	0.50	-531.50	-514.20	-650.62	-208.29	-116.28	-35.76	35.83
578	4	4	-1335.36	2150.73	1.37	14	0.50	-1062.27	-1028.16	-1301.24	-208.29	-116.28	-35.73	35.86
579	4	2	-1094.81	1652.67	1.44	2	0.67	-878.68	-850.30	-1066.44	-208.29	-116.28	-11.39	35.86
580	2	2	-667.68	1022.49	1.44	2	0.50	-532.32	-515.26	-650.62	-208.29	-116.28	-35.63	35.96
581	2	2	-667.87	961.75	1.53	2	0.50	-532.64	-515.39	-650.62	-208.29	-116.28	-35.60	35.99
582	2	2	-667.64	1011.61	1.46	2	0.50	-531.83	-514.81	-650.62	-208.29	-116.28	-35.60	35.99
583	4	2	-1094.46	1844.91	1.29	2	0.67	-877.78	-849.74	-1066.42	-208.29	-116.28	-11.19	36.06
584	6	4	-1762.64	2816.91	1.37	2	0.60	-1409.66	-1364.07	-1717.06	-208.29	-116.28	-21.11	36.16
585	4	4	-1335.90	2488.15	1.18	14	0.50	-1062.02	-1027.34	-1301.21	-208.29	-116.28	-35.39	36.20

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586	6	4	-1762.42	2813.22	1.37	2	0.60	-1410.28	-1364.91	-1717.05	-208.29	-116.28	-21.07	36.20
587	2	2	-667.85	1120.71	1.31	2	0.50	-532.05	-514.80	-650.61	-208.29	-116.28	-35.36	36.23
588	2	2	-667.79	1030.39	1.43	2	0.50	-531.52	-514.34	-650.61	-208.29	-116.28	-35.36	36.23
589	4	4	-1335.54	2356.68	1.25	14	0.50	-1063.30	-1028.96	-1301.21	-208.29	-116.28	-35.34	36.25
590	4	4	-1335.47	2127.23	1.38	33	0.50	-1064.33	-1030.06	-1301.21	-208.29	-116.28	-35.29	36.30
591	4	4	-1335.23	2191.50	1.34	14	0.50	-1063.74	-1029.71	-1301.20	-208.29	-116.28	-35.27	36.32
592	2	2	-667.91	1011.74	1.46	2	0.50	-532.52	-515.21	-650.60	-208.29	-116.28	-35.19	36.40
593	2	2	-667.67	1164.57	1.26	2	0.50	-531.64	-514.57	-650.60	-208.29	-116.28	-35.12	36.47
594	2	2	-667.99	1045.92	1.41	2	0.50	-532.00	-514.61	-650.59	-208.29	-116.28	-35.09	36.50
595	2	2	-667.81	1103.92	1.33	2	0.50	-531.42	-514.20	-650.59	-208.29	-116.28	-35.09	36.50
596	4	4	-1335.77	1858.74	1.58	14	0.50	-1064.46	-1029.87	-1301.19	-208.29	-116.28	-35.07	36.52
597	6	4	-1762.44	2817.85	1.37	4	0.60	-1410.41	-1364.98	-1717.02	-208.29	-116.28	-20.72	36.55
598	4	2	-1094.63	1662.93	1.43	2	0.67	-878.68	-850.44	-1066.39	-208.29	-116.28	-10.68	36.57
599	6	4	-1762.32	2823.86	1.36	2	0.60	-1409.29	-1363.98	-1717.01	-208.29	-116.28	-20.66	36.61
600	2	2	-667.86	989.46	1.49	4	0.50	-532.27	-515.00	-650.59	-208.29	-116.28	-34.92	36.67
601	4	2	-1094.65	1658.25	1.44	2	0.67	-878.78	-850.52	-1066.39	-208.29	-116.28	-10.58	36.67
602	2	2	-667.87	1011.77	1.46	2	0.50	-532.11	-514.83	-650.59	-208.29	-116.28	-34.91	36.68
603	2	2	-667.81	1074.75	1.37	2	0.50	-532.05	-514.83	-650.58	-208.29	-116.28	-34.77	36.82
604	2	2	-667.86	980.36	1.50	4	0.50	-532.47	-515.19	-650.58	-208.29	-116.28	-34.77	36.82
605	4	2	-1094.39	1702.51	1.40	4	0.67	-878.57	-850.54	-1066.36	-208.29	-116.28	-10.19	37.06
606	2	2	-667.71	1044.29	1.41	2	0.50	-531.39	-514.25	-650.57	-208.29	-116.28	-34.44	37.15
607	4	2	-1094.30	1812.51	1.31	2	0.67	-877.97	-850.03	-1066.35	-208.29	-116.28	-10.05	37.20
608	6	4	-1762.50	2666.86	1.45	2	0.60	-1410.06	-1364.51	-1716.95	-208.29	-116.28	-20.04	37.23
609	12	8	-3524.17	5611.70	1.37	14	0.60	-2819.82	-2729.54	-3433.89	-208.29	-116.28	-20.03	37.24
610	2	2	-667.95	1073.58	1.37	2	0.50	-531.81	-514.42	-650.56	-208.29	-116.28	-34.28	37.31
611	4	2	-1094.35	1906.26	1.25	2	0.67	-877.58	-849.58	-1066.35	-208.29	-116.28	-9.94	37.31
612	2	2	-667.77	1039.48	1.42	2	0.50	-531.76	-514.55	-650.56	-208.29	-116.28	-34.24	37.35
613	4	2	-1094.43	1619.41	1.47	4	0.67	-879.17	-851.09	-1066.34	-208.29	-116.28	-9.89	37.36
614	2	2	-667.70	1058.13	1.39	2	0.50	-531.79	-514.65	-650.56	-208.29	-116.28	-34.20	37.39
615	6	4	-1762.31	2739.47	1.41	4	0.60	-1409.84	-1364.46	-1716.92	-208.29	-116.28	-19.81	37.46
616	2	2	-667.86	1044.96	1.41	2	0.50	-531.48	-514.17	-650.55	-208.29	-116.28	-34.04	37.55
617	2	2	-667.88	987.29	1.49	2	0.50	-532.46	-515.13	-650.55	-208.29	-116.28	-33.98	37.61
618	2	2	-667.91	1000.14	1.47	2	0.50	-532.67	-515.31	-650.55	-208.29	-116.28	-33.98	37.61
619	2	2	-667.86	1061.30	1.39	2	0.50	-532.23	-514.92	-650.55	-208.29	-116.28	-33.93	37.66
620	4	2	-1094.45	1784.66	1.33	2	0.67	-878.35	-850.23	-1066.33	-208.29	-116.28	-9.59	37.66
621	2	2	-667.79	1075.09	1.37	2	0.50	-531.72	-514.47	-650.54	-208.29	-116.28	-33.78	37.81
622	4	2	-1094.59	1780.37	1.34	2	0.67	-877.31	-849.04	-1066.32	-208.29	-116.28	-9.44	37.81
623	2	2	-668.03	1047.71	1.41	2	0.50	-532.70	-515.20	-650.54	-208.29	-116.28	-33.76	37.83
624	2	2	-667.68	1023.75	1.44	2	0.50	-532.58	-515.44	-650.54	-208.29	-116.28	-33.75	37.84
625	4	2	-1094.26	1701.13	1.40	2	0.67	-877.53	-849.58	-1066.31	-208.29	-116.28	-9.36	37.89
626	2	2	-667.78	1075.56	1.37	2	0.50	-531.76	-514.51	-650.54	-208.29	-116.28	-33.67	37.92
627	6	4	-1762.20	2757.60	1.40	2	0.60	-1410.17	-1364.84	-1716.87	-208.29	-116.28	-19.35	37.92
628	4	4	-1335.76	2144.59	1.37	33	0.50	-1062.80	-1028.11	-1301.07	-208.29	-116.28	-33.59	38.00
629	6	4	-1762.11	2882.40	1.34	4	0.60	-1410.23	-1364.98	-1716.86	-208.29	-116.28	-19.23	38.04
630	2	2	-667.78	1063.06	1.39	2	0.50	-531.70	-514.45	-650.53	-208.29	-116.28	-33.53	38.06
631	4	2	-1094.60	1791.61	1.33	2	0.67	-878.54	-850.24	-1066.30	-208.29	-116.28	-9.18	38.07
632	2	2	-667.75	1129.03	1.30	2	0.50	-531.62	-514.40	-650.53	-208.29	-116.28	-33.51	38.08
633	2	2	-667.82	1014.78	1.45	2	0.50	-532.57	-515.28	-650.53	-208.29	-116.28	-33.43	38.16
634	4	4	-1335.22	2161.66	1.36	14	0.50	-1063.90	-1029.74	-1301.05	-208.29	-116.28	-33.42	38.17
635	4	2	-1094.53	1764.03	1.35	2	0.67	-878.05	-849.81	-1066.29	-208.29	-116.28	-9.03	38.22
636	4	2	-1094.81	1732.03	1.37	4	0.67	-877.61	-849.10	-1066.29	-208.29	-116.28	-8.99	38.26
637	2	2	-667.81	980.87	1.50	2	0.50	-532.72	-515.43	-650.52	-208.29	-116.28	-33.32	38.27
638	4	2	-1094.71	1775.52	1.34	4	0.67	-879.20	-850.77	-1066.29	-208.29	-116.28	-8.97	38.28
639	4	2	-1094.18	1778.22	1.34	4	0.67	-877.51	-849.61	-1066.29	-208.29	-116.28	-8.96	38.29
640	4	4	-1335.33	2300.33	1.28	14	0.50	-1061.24	-1026.95	-1301.04	-208.29	-116.28	-33.23	38.36
641	4	4	-1334.82	2083.33	1.41	14	0.50	-1063.94	-1030.14	-1301.03	-208.29	-116.28	-33.15	38.44
642	6	4	-1762.08	2806.51	1.37	4	0.60	-1409.80	-1364.54	-1716.82	-208.29	-116.28	-18.81	38.46
643	2	2	-667.93	1085.50	1.36	2	0.50	-532.49	-515.08	-650.51	-208.29	-116.28	-33.10	38.49
644	2	2	-667.68	1047.66	1.41	2	0.50	-531.34	-514.17	-650.51	-208.29	-116.28	-33.07	38.52

645	4	4	-1335.78	2039.43	1.44	14	0.50	-1063.84	-1029.09	-1301.02	-208.29	-116.28	-33.07	38.52
646	2	2	-667.75	1023.76	1.44	2	0.50	-532.25	-515.01	-650.51	-208.29	-116.28	-33.01	38.58
647	2	2	-667.74	1030.34	1.43	2	0.50	-531.55	-514.32	-650.51	-208.29	-116.28	-33.01	38.58
648	2	2	-667.69	1187.18	1.24	2	0.50	-531.48	-514.30	-650.51	-208.29	-116.28	-32.97	38.62
649	2	2	-667.86	1031.61	1.43	2	0.50	-532.12	-514.77	-650.51	-208.29	-116.28	-32.97	38.62
650	2	2	-667.85	973.79	1.51	2	0.50	-531.60	-514.25	-650.50	-208.29	-116.28	-32.88	38.71
651	2	2	-667.79	1049.24	1.40	2	0.50	-531.89	-514.60	-650.50	-208.29	-116.28	-32.88	38.71
652	6	4	-1761.68	2716.31	1.42	2	0.60	-1410.54	-1365.65	-1716.79	-208.29	-116.28	-18.52	38.75
653	4	2	-1094.45	1805.52	1.32	2	0.67	-877.74	-849.55	-1066.26	-208.29	-116.28	-8.50	38.75
654	4	4	-1335.65	1954.13	1.51	33	0.50	-1064.47	-1029.82	-1301.00	-208.29	-116.28	-32.82	38.77
655	2	2	-667.69	1047.02	1.41	2	0.50	-532.60	-515.40	-650.50	-208.29	-116.28	-32.73	38.86
656	6	4	-1761.98	2818.88	1.37	4	0.60	-1409.71	-1364.49	-1716.77	-208.29	-116.28	-18.34	38.93
657	2	2	-667.66	993.70	1.48	2	0.50	-532.16	-515.00	-650.49	-208.29	-116.28	-32.63	38.96
658	6	4	-1761.73	2811.82	1.37	4	0.60	-1410.24	-1365.27	-1716.76	-208.29	-116.28	-18.27	39.00
659	4	2	-1094.64	1754.34	1.36	2	0.67	-878.49	-850.10	-1066.24	-208.29	-116.28	-8.23	39.02
660	4	4	-1335.49	2201.84	1.34	14	0.50	-1062.51	-1027.99	-1300.98	-208.29	-116.28	-32.54	39.05
661	4	2	-1094.37	1699.33	1.40	2	0.67	-878.18	-850.05	-1066.24	-208.29	-116.28	-8.19	39.06
662	4	2	-1094.23	1645.21	1.45	2	0.67	-877.71	-849.72	-1066.24	-208.29	-116.28	-8.18	39.07
663	2	2	-667.75	988.54	1.49	2	0.50	-531.61	-514.35	-650.48	-208.29	-116.28	-32.40	39.19
664	2	2	-667.75	1050.56	1.40	2	0.50	-531.82	-514.54	-650.48	-208.29	-116.28	-32.29	39.30
665	4	2	-1094.41	1721.59	1.38	4	0.67	-878.39	-850.20	-1066.22	-208.29	-116.28	-7.92	39.33
666	4	4	-1335.53	1952.22	1.51	14	0.50	-1063.46	-1028.88	-1300.95	-208.29	-116.28	-32.17	39.42
667	4	4	-1335.48	1952.83	1.51	14	0.50	-1064.88	-1030.35	-1300.95	-208.29	-116.28	-32.15	39.44
668	2	2	-667.72	994.67	1.48	2	0.50	-532.31	-515.06	-650.47	-208.29	-116.28	-32.09	39.50
669	4	4	-1335.06	2111.19	1.40	14	0.50	-1063.35	-1029.23	-1300.94	-208.29	-116.28	-32.07	39.52
670	2	2	-667.68	1103.76	1.33	2	0.50	-531.78	-514.57	-650.47	-208.29	-116.28	-32.04	39.55
671	4	2	-1094.40	1732.32	1.37	2	0.67	-877.88	-849.68	-1066.20	-208.29	-116.28	-7.64	39.61
672	4	4	-1335.24	2057.86	1.43	14	0.50	-1063.38	-1029.08	-1300.93	-208.29	-116.28	-31.97	39.62
673	4	4	-1334.86	2092.61	1.41	14	0.50	-1062.95	-1029.01	-1300.92	-208.29	-116.28	-31.81	39.78
674	4	4	-1335.19	2149.15	1.37	33	0.50	-1063.53	-1029.25	-1300.91	-208.29	-116.28	-31.78	39.81
675	4	4	-1335.18	1971.78	1.49	14	0.50	-1063.58	-1029.31	-1300.91	-208.29	-116.28	-31.76	39.83
676	4	2	-1094.46	1674.94	1.42	4	0.67	-878.70	-850.43	-1066.19	-208.29	-116.28	-7.41	39.84
677	2	2	-667.53	1024.08	1.44	2	0.50	-531.81	-514.74	-650.46	-208.29	-116.28	-31.74	39.85
678	4	4	-1335.36	2146.03	1.37	14	0.50	-1062.93	-1028.48	-1300.91	-208.29	-116.28	-31.72	39.87
679	4	2	-1094.38	1876.94	1.27	4	0.67	-878.08	-849.88	-1066.18	-208.29	-116.28	-7.33	39.92
680	2	2	-667.90	1079.20	1.36	2	0.50	-531.18	-513.74	-650.45	-208.29	-116.28	-31.62	39.97
681	4	2	-1094.35	1672.14	1.42	2	0.67	-877.37	-849.20	-1066.18	-208.29	-116.28	-7.21	40.04
682	2	2	-667.68	1024.97	1.44	2	0.50	-531.63	-514.40	-650.44	-208.29	-116.28	-31.47	40.12
683	6	4	-1761.81	2759.96	1.40	4	0.60	-1410.30	-1365.13	-1716.64	-208.29	-116.28	-17.12	40.15
684	4	4	-1335.38	2103.05	1.40	14	0.50	-1063.18	-1028.67	-1300.87	-208.29	-116.28	-31.28	40.31
685	2	2	-667.80	1005.57	1.46	2	0.50	-531.85	-514.48	-650.43	-208.29	-116.28	-31.21	40.38
686	4	2	-1094.40	1655.63	1.44	2	0.67	-878.00	-849.75	-1066.15	-208.29	-116.28	-6.73	40.52
687	2	2	-667.69	1026.99	1.43	2	0.50	-532.39	-515.13	-650.42	-208.29	-116.28	-30.99	40.60
688	2	2	-667.52	995.43	1.48	2	0.50	-532.18	-515.08	-650.42	-208.29	-116.28	-30.91	40.68
689	4	2	-1094.24	1828.38	1.30	2	0.67	-877.45	-849.35	-1066.13	-208.29	-116.28	-6.47	40.78
690	4	4	-1335.59	1794.18	1.64	14	0.50	-1064.01	-1029.26	-1300.83	-208.29	-116.28	-30.78	40.81
691	2	2	-667.73	1053.41	1.40	2	0.50	-532.38	-515.06	-650.42	-208.29	-116.28	-30.76	40.83
692	4	4	-1335.16	2077.11	1.42	14	0.50	-1063.33	-1029.00	-1300.83	-208.29	-116.28	-30.75	40.84
693	2	2	-667.66	975.48	1.51	2	0.50	-532.40	-515.15	-650.41	-208.29	-116.28	-30.74	40.85
694	4	2	-1094.70	1658.84	1.44	4	0.67	-878.26	-849.69	-1066.12	-208.29	-116.28	-6.37	40.88
695	6	4	-1761.67	2835.87	1.36	4	0.60	-1408.98	-1363.87	-1716.56	-208.29	-116.28	-16.35	40.92
696	4	2	-1094.22	1834.09	1.30	2	0.67	-876.94	-848.84	-1066.12	-208.29	-116.28	-6.28	40.97
697	4	4	-1335.42	1969.33	1.50	14	0.50	-1064.44	-1029.84	-1300.82	-208.29	-116.28	-30.58	41.01
698	4	4	-1335.26	2135.24	1.38	14	0.50	-1063.74	-1029.29	-1300.81	-208.29	-116.28	-30.49	41.10
699	4	4	-1334.44	2268.54	1.30	14	0.50	-1062.00	-1028.36	-1300.80	-208.29	-116.28	-30.42	41.17
700	4	2	-1094.50	1792.73	1.33	2	0.67	-878.19	-849.79	-1066.10	-208.29	-116.28	-6.00	41.25
701	2	2	-667.68	1253.83	1.17	2	0.50	-531.42	-514.14	-650.39	-208.29	-116.28	-30.24	41.35
702	4	2	-1094.42	1735.82	1.37	4	0.67	-877.82	-849.49	-1066.10	-208.29	-116.28	-5.90	41.35
703	4	2	-1094.18	1732.74	1.37	4	0.67	-878.03	-849.95	-1066.09	-208.29	-116.28	-5.81	41.44

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704	4	2	-1094.20	1672.05	1.42	4	0.67	-878.30	-850.19	-1066.09	-208.29	-116.28	-5.78	41.47
705	2	2	-667.90	1088.91	1.35	2	0.50	-532.51	-514.99	-650.38	-208.29	-116.28	-29.93	41.66
706	4	4	-1335.19	2025.22	1.45	14	0.50	-1063.42	-1028.99	-1300.75	-208.29	-116.28	-29.85	41.74
707	2	2	-667.53	1255.45	1.17	7	0.50	-531.32	-514.17	-650.38	-208.29	-116.28	-29.84	41.75
708	4	4	-1334.92	2095.95	1.41	14	0.50	-1062.52	-1028.35	-1300.75	-208.29	-116.28	-29.84	41.75
709	4	4	-1335.37	2194.59	1.34	14	0.50	-1061.77	-1027.15	-1300.75	-208.29	-116.28	-29.81	41.78
710	4	2	-1094.39	1673.69	1.42	2	0.67	-878.56	-850.24	-1066.07	-208.29	-116.28	-5.43	41.82
711	4	2	-1094.03	1781.34	1.34	2	0.67	-877.77	-849.81	-1066.06	-208.29	-116.28	-5.39	41.86
712	2	2	-667.75	1008.63	1.46	2	0.50	-531.81	-514.43	-650.37	-208.29	-116.28	-29.69	41.90
713	4	2	-1094.15	1724.44	1.38	2	0.67	-878.02	-849.93	-1066.06	-208.29	-116.28	-5.33	41.92
714	4	2	-1094.48	1703.92	1.40	2	0.67	-878.60	-850.18	-1066.06	-208.29	-116.28	-5.28	41.97
715	6	4	-1761.58	2814.58	1.37	4	0.60	-1409.65	-1364.52	-1716.44	-208.29	-116.28	-15.19	42.08
716	6	4	-1761.86	2758.21	1.40	4	0.60	-1411.15	-1365.73	-1716.44	-208.29	-116.28	-15.19	42.08
717	4	4	-1335.15	2258.64	1.30	14	0.50	-1062.44	-1028.01	-1300.72	-208.29	-116.28	-29.47	42.12
718	2	2	-667.76	1110.98	1.33	2	0.50	-531.73	-514.34	-650.36	-208.29	-116.28	-29.39	42.20
719	2	2	-667.35	967.10	1.52	7	0.50	-531.77	-514.78	-650.35	-208.29	-116.28	-29.29	42.30
720	2	2	-667.88	1081.43	1.36	2	0.50	-531.87	-514.34	-650.35	-208.29	-116.28	-29.18	42.41
721	4	2	-1094.24	1643.20	1.45	2	0.67	-878.90	-850.69	-1066.02	-208.29	-116.28	-4.69	42.56
722	2	2	-667.35	1035.23	1.42	2	0.50	-530.85	-513.84	-650.34	-208.29	-116.28	-29.01	42.58
723	2	2	-667.51	1035.44	1.42	2	0.50	-532.34	-515.17	-650.34	-208.29	-116.28	-29.01	42.58
724	4	2	-1094.13	1693.93	1.41	2	0.67	-878.54	-850.43	-1066.02	-208.29	-116.28	-4.65	42.60
725	2	4	-907.24	2469.30	0.83	2	0.33	-716.58	-692.85	-883.51	-208.29	-116.28	-29.17	42.74
726	4	2	-1094.41	1659.09	1.43	2	0.67	-877.99	-849.58	-1066.01	-208.29	-116.28	-4.48	42.77
727	4	4	-1335.20	1968.99	1.50	14	0.50	-1063.02	-1028.48	-1300.66	-208.29	-116.28	-28.67	42.92
728	4	4	-1334.97	2053.34	1.43	14	0.50	-1062.91	-1028.58	-1300.65	-208.29	-116.28	-28.58	43.01
729	4	2	-1094.29	1660.01	1.43	2	0.67	-878.82	-850.51	-1065.98	-208.29	-116.28	-4.02	43.23
730	4	4	-1335.74	1956.10	1.51	33	0.50	-1065.20	-1030.09	-1300.63	-208.29	-116.28	-28.34	43.25
731	4	4	-1334.72	2345.13	1.26	29	0.50	-1062.33	-1028.23	-1300.62	-208.29	-116.28	-28.20	43.39
732	4	4	-1335.49	2064.20	1.43	14	0.50	-1064.27	-1029.40	-1300.62	-208.29	-116.28	-28.18	43.41
733	2	2	-667.66	1067.83	1.38	2	0.50	-531.84	-514.48	-650.31	-208.29	-116.28	-28.14	43.45
734	4	2	-1094.22	1660.31	1.43	2	0.67	-878.50	-850.24	-1065.96	-208.29	-116.28	-3.72	43.53
735	4	2	-1094.31	1699.50	1.40	2	0.67	-878.24	-849.89	-1065.96	-208.29	-116.28	-3.70	43.55
736	4	2	-1094.03	1696.26	1.40	2	0.67	-877.45	-849.39	-1065.96	-208.29	-116.28	-3.67	43.58
737	4	4	-1335.18	2164.35	1.36	14	0.50	-1063.76	-1029.17	-1300.60	-208.29	-116.28	-27.96	43.63
738	4	4	-1334.86	2001.11	1.47	14	0.50	-1064.78	-1030.49	-1300.57	-208.29	-116.28	-27.63	43.96
739	4	4	-1334.77	2128.69	1.38	14	0.50	-1063.57	-1029.33	-1300.53	-208.29	-116.28	-27.17	44.42
740	4	4	-1335.20	2077.13	1.42	14	0.50	-1063.14	-1028.47	-1300.52	-208.29	-116.28	-27.07	44.52
741	4	2	-1094.18	1693.85	1.41	4	0.67	-878.07	-849.79	-1065.90	-208.29	-116.28	-2.69	44.56
742	2	2	-667.67	1118.65	1.32	2	0.50	-531.94	-514.53	-650.26	-208.29	-116.28	-27.01	44.58
743	4	2	-1093.85	1832.89	1.30	2	0.67	-877.16	-849.17	-1065.86	-208.29	-116.28	-2.18	45.07
744	4	2	-1094.06	1692.77	1.41	2	0.67	-877.52	-849.32	-1065.86	-208.29	-116.28	-2.16	45.09
745	4	4	-1335.03	2354.75	1.25	14	0.50	-1063.15	-1028.57	-1300.45	-208.29	-116.28	-26.21	45.38
746	4	4	-1334.71	2092.06	1.41	14	0.50	-1063.21	-1028.94	-1300.44	-208.29	-116.28	-26.01	45.58
747	4	2	-1094.06	1974.50	1.21	2	0.67	-877.54	-849.31	-1065.82	-208.29	-116.28	-1.51	45.74
748	4	4	-1334.79	2237.00	1.32	14	0.50	-1063.78	-1029.40	-1300.41	-208.29	-116.28	-25.73	45.86
749	4	2	-1094.11	1784.96	1.33	4	0.67	-877.16	-848.83	-1065.79	-208.29	-116.28	-1.00	46.25
750	2	2	-667.34	1020.11	1.44	7	0.50	-531.63	-514.47	-650.18	-208.29	-116.28	-25.15	46.44
751	4	2	-1093.97	1941.57	1.23	2	0.67	-877.23	-849.04	-1065.77	-208.29	-116.28	-0.74	46.51
752	4	2	-1093.74	2022.58	1.18	2	0.67	-877.28	-849.31	-1065.77	-208.29	-116.28	-0.66	46.59
753	4	2	-1094.17	1714.79	1.39	2	0.67	-877.88	-849.47	-1065.77	-208.29	-116.28	-0.62	46.63
754	8	4	-2187.86	3502.95	1.36	14	0.67	-1755.22	-1698.90	-2131.53	-208.29	-116.28	-0.59	46.66
755	2	2	-667.48	1070.42	1.38	2	0.50	-531.83	-514.52	-650.17	-208.29	-116.28	-24.87	46.72
756	2	2	-667.38	1088.96	1.35	2	0.50	-531.44	-514.22	-650.16	-208.29	-116.28	-24.69	46.90
757	4	2	-1094.13	1736.79	1.37	4	0.67	-877.87	-849.49	-1065.75	-208.29	-116.28	-0.33	46.92
758	4	2	-1093.96	1613.85	1.48	2	0.67	-878.12	-849.91	-1065.74	-208.29	-116.28	-0.24	47.01
759	4	4	-1334.86	1861.79	1.58	14	0.50	-1062.63	-1028.08	-1300.31	-208.29	-116.28	-24.48	47.11
760	2	2	-667.25	1020.07	1.44	2	0.50	-530.76	-513.62	-650.11	-208.29	-116.28	-23.45	48.14
761	4	4	-1334.36	2109.78	1.40	14	0.50	-1063.25	-1029.10	-1300.21	-208.29	-116.28	-23.26	48.33
762	2	2	-667.05	1100.32	1.34	2	0.50	-530.51	-513.55	-650.09	-208.29	-116.28	-22.92	48.67

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763	4	4	-1334.68	2309.38	1.28	14	0.50	-1062.74	-1028.22	-1300.15	-208.29	-116.28	-22.59	49.00
764	4	4	-1334.70	1879.67	1.57	14	0.50	-1062.85	-1028.29	-1300.14	-208.29	-116.28	-22.38	49.21
765	4	4	-1334.32	1992.47	1.48	14	0.50	-1063.09	-1028.89	-1300.12	-208.29	-116.28	-22.24	49.35
766	2	2	-667.10	1177.75	1.25	2	0.50	-531.45	-514.40	-650.06	-208.29	-116.28	-22.24	49.35
767	4	4	-1334.40	2031.26	1.45	29	0.50	-1061.67	-1027.35	-1300.08	-208.29	-116.28	-21.65	49.94
768	2	2	-667.34	1053.06	1.40	2	0.50	-530.69	-513.38	-650.04	-208.29	-116.28	-21.59	50.00
769	4	4	-1333.91	2253.44	1.31	14	0.50	-1061.18	-1027.30	-1300.02	-208.29	-116.28	-21.04	50.55
770	4	4	-1334.14	2086.16	1.41	14	0.50	-1061.22	-1027.04	-1299.96	-208.29	-116.28	-20.23	51.36
771	4	4	-1334.55	1981.84	1.49	14	0.50	-1064.18	-1029.51	-1299.88	-208.29	-116.28	-19.30	52.29
772	2	2	-667.33	1048.63	1.40	2	0.50	-531.51	-514.12	-649.94	-208.29	-116.28	-19.20	52.39
773	4	4	-1334.38	1914.36	1.54	33	0.50	-1062.34	-1027.83	-1299.87	-208.29	-116.28	-19.20	52.39
774	2	2	-667.24	1126.71	1.31	2	0.50	-530.90	-513.59	-649.93	-208.29	-116.28	-18.94	52.65
775	2	2	-667.06	1205.21	1.22	2	0.50	-531.27	-514.13	-649.92	-208.29	-116.28	-18.86	52.73
776	4	4	-1333.94	1937.99	1.52	14	0.50	-1061.95	-1027.83	-1299.83	-208.29	-116.28	-18.64	52.95
777	2	2	-667.27	1115.38	1.32	2	0.50	-531.80	-514.43	-649.90	-208.29	-116.28	-18.41	53.18
778	4	4	-1333.57	2351.02	1.25	29	0.50	-1061.06	-1027.26	-1299.77	-208.29	-116.28	-17.92	53.67
779	4	4	-1334.09	2156.34	1.37	14	0.50	-1063.06	-1028.69	-1299.73	-208.29	-116.28	-17.45	54.14
780	4	4	-1333.83	2481.30	1.19	33	0.50	-1061.07	-1026.95	-1299.71	-208.29	-116.28	-17.27	54.32
781	2	2	-666.93	1218.01	1.21	7	0.50	-530.74	-513.62	-649.81	-208.29	-116.28	-16.16	55.43
782	4	4	-1334.01	2235.78	1.32	14	0.50	-1063.77	-1029.36	-1299.59	-208.29	-116.28	-15.85	55.74
783	4	4	-1334.12	1978.78	1.49	33	0.50	-1062.84	-1028.30	-1299.58	-208.29	-116.28	-15.67	55.92
784	2	2	-667.05	1260.77	1.17	2	0.50	-531.53	-514.27	-649.78	-208.29	-116.28	-15.55	56.04
785	4	4	-1333.72	1985.67	1.48	33	0.50	-1062.07	-1027.90	-1299.54	-208.29	-116.28	-15.21	56.38
786	4	4	-1333.36	2395.63	1.23	33	0.50	-1061.23	-1027.35	-1299.48	-208.29	-116.28	-14.50	57.09
787	4	4	-1333.57	2000.04	1.47	33	0.50	-1061.76	-1027.57	-1299.38	-208.29	-116.28	-13.31	58.28
788	4	4	-1333.91	1932.02	1.52	14	0.50	-1063.07	-1028.50	-1299.34	-208.29	-116.28	-12.84	58.75
789	4	4	-1333.57	2160.36	1.36	14	0.50	-1061.58	-1027.04	-1299.03	-208.29	-116.28	-9.07	62.52
790	4	4	-1333.75	2006.21	1.47	14	0.50	-1062.05	-1027.32	-1299.03	-208.29	-116.28	-9.02	62.57
791	4	4	-1332.88	2436.07	1.21	29	0.50	-1059.60	-1025.66	-1298.94	-208.29	-116.28	-7.92	63.67
792	2	2	-666.68	1293.76	1.14	2	0.50	-530.24	-512.97	-649.42	-208.29	-116.28	-6.67	64.92
793	2	2	-666.41	1339.29	1.10	7	0.50	-530.80	-513.57	-649.19	-208.29	-116.28	-1.13	70.46

Table S 5. List of the first 10 generated co-crystal structures of pomalidomide with DHBA, ranked by dh. Gibbs free energies of formation (ΔG) were computed using a hybrid DFT (VASP, PBE-D3) and vibrational correction (GULP, GFN-FF). The suggested structure based on synthon modularity is shown in bold.

Rank-dh	Z1	Z2	lattice energy (ev)	Volume, Å ³	Density, g/cm ³	Space group	composition	Estatic (GULP)	Helmholtz (GULP)	G_cocrystal	G-1	G-2	G_form (kJ/mol)	dh
1	2	2	-655.79	991.93	1.43	2	0.50	-525.94	-508.72	-638.57	-208.29	-110.49	-24.43	0.00
2	2	4	-883.10	1292.18	1.49	2	0.33	-705.11	-682.03	-860.02	-208.29	-110.49	-23.89	0.00
3	2	2	-655.87	962.97	1.47	2	0.50	-527.00	-509.69	-638.56	-208.29	-110.49	-24.07	0.36
4	2	2	-655.79	994.28	1.43	2	0.50	-525.82	-508.56	-638.53	-208.29	-110.49	-23.51	0.92
5	2	2	-655.85	908.81	1.56	2	0.50	-526.96	-509.64	-638.53	-208.29	-110.49	-23.47	0.96
6	2	4	-883.07	1235.18	1.56	2	0.33	-705.59	-682.43	-859.91	-208.29	-110.49	-22.20	1.69
7	2	4	-882.97	1263.96	1.53	2	0.33	-705.82	-682.71	-859.86	-208.29	-110.49	-21.38	2.51
8	2	4	-883.02	1260.89	1.53	2	0.33	-705.07	-681.91	-859.86	-208.29	-110.49	-21.38	2.51
9	2	2	-655.70	1016.45	1.40	2	0.50	-525.61	-508.37	-638.46	-208.29	-110.49	-21.78	2.65
10	2	4	-883.16	1382.11	1.40	2	0.33	-705.12	-681.78	-859.82	-208.29	-110.49	-20.77	3.12
11	2	2	-655.64	995.91	1.43	2	0.50	-526.41	-509.21	-638.44	-208.29	-110.49	-21.22	3.21
12	2	4	-883.09	1261.92	1.53	2	0.33	-704.84	-681.56	-859.81	-208.29	-110.49	-20.62	3.27
13	2	2	-655.72	985.73	1.44	2	0.50	-525.70	-508.40	-638.42	-208.29	-110.49	-20.76	3.67
14	2	4	-882.80	1313.06	1.47	2	0.33	-704.65	-681.64	-859.79	-208.29	-110.49	-20.20	3.69
15	2	4	-882.82	1331.83	1.45	2	0.33	-704.64	-681.60	-859.78	-208.29	-110.49	-20.14	3.75
16	2	4	-882.85	1352.33	1.43	2	0.33	-704.81	-681.73	-859.77	-208.29	-110.49	-19.90	3.99
17	2	2	-655.65	995.98	1.43	2	0.50	-526.42	-509.16	-638.39	-208.29	-110.49	-19.99	4.44
18	2	4	-883.03	1247.01	1.55	2	0.33	-705.45	-682.16	-859.74	-208.29	-110.49	-19.43	4.46
19	2	4	-883.13	1353.95	1.43	2	0.33	-704.50	-681.10	-859.73	-208.29	-110.49	-19.30	4.59
20	2	4	-883.19	1266.28	1.53	2	0.33	-705.77	-682.30	-859.72	-208.29	-110.49	-19.18	4.71
21	2	2	-655.55	925.42	1.53	2	0.50	-526.59	-509.42	-638.38	-208.29	-110.49	-19.68	4.75
22	2	4	-882.72	1351.61	1.43	2	0.33	-704.71	-681.70	-859.71	-208.29	-110.49	-19.01	4.88
23	2	2	-655.45	970.76	1.46	2	0.50	-526.41	-509.31	-638.35	-208.29	-110.49	-19.15	5.28
24	2	2	-655.59	995.67	1.43	2	0.50	-526.59	-509.35	-638.35	-208.29	-110.49	-19.00	5.43
25	4	8	-1765.73	2565.69	1.51	14	0.33	-1411.29	-1364.91	-1719.35	-208.29	-110.49	-18.39	5.50
26	2	4	-882.82	1319.26	1.46	2	0.33	-705.04	-681.87	-859.65	-208.29	-110.49	-18.07	5.82
27	2	4	-882.93	1265.37	1.53	2	0.33	-705.26	-681.98	-859.65	-208.29	-110.49	-18.03	5.86
28	4	8	-1765.53	2586.89	1.49	14	0.33	-1411.10	-1364.87	-1719.30	-208.29	-110.49	-18.01	5.88
29	2	4	-882.94	1301.15	1.48	2	0.33	-705.49	-682.20	-859.65	-208.29	-110.49	-17.94	5.95
30	2	2	-655.54	971.46	1.46	2	0.50	-526.48	-509.27	-638.33	-208.29	-110.49	-18.47	5.96
31	2	2	-655.57	995.57	1.43	2	0.50	-526.32	-509.07	-638.32	-208.29	-110.49	-18.42	6.01
32	2	4	-882.87	1260.70	1.53	2	0.33	-705.92	-682.69	-859.64	-208.29	-110.49	-17.87	6.02
33	2	4	-883.15	1276.11	1.51	2	0.33	-705.67	-682.15	-859.63	-208.29	-110.49	-17.70	6.19
34	2	4	-882.90	1209.14	1.60	2	0.33	-705.71	-682.43	-859.62	-208.29	-110.49	-17.55	6.34
35	2	2	-655.54	1004.38	1.41	2	0.50	-526.29	-509.06	-638.31	-208.29	-110.49	-18.01	6.42
36	2	4	-882.48	1310.50	1.47	2	0.33	-705.11	-682.25	-859.62	-208.29	-110.49	-17.47	6.42
37	2	2	-655.55	993.31	1.43	2	0.50	-526.20	-508.95	-638.30	-208.29	-110.49	-17.87	6.56
38	2	2	-655.12	968.01	1.47	2	0.50	-526.28	-509.46	-638.30	-208.29	-110.49	-17.82	6.61
39	2	4	-882.86	1358.99	1.42	2	0.33	-704.80	-681.52	-859.58	-208.29	-110.49	-16.96	6.93
40	2	2	-655.63	909.60	1.56	2	0.50	-526.71	-509.36	-638.28	-208.29	-110.49	-17.41	7.02
41	2	2	-655.62	910.02	1.56	2	0.50	-526.68	-509.34	-638.28	-208.29	-110.49	-17.39	7.04
42	2	2	-655.12	968.00	1.47	2	0.50	-526.30	-509.46	-638.28	-208.29	-110.49	-17.34	7.09
43	2	2	-655.57	959.69	1.48	2	0.50	-526.02	-508.72	-638.27	-208.29	-110.49	-17.17	7.26
44	2	2	-655.57	962.60	1.47	2	0.50	-526.02	-508.72	-638.27	-208.29	-110.49	-17.12	7.31
45	2	2	-655.57	963.73	1.47	2	0.50	-526.11	-508.80	-638.26	-208.29	-110.49	-16.98	7.45
46	2	4	-882.32	1304.86	1.48	2	0.33	-704.86	-682.09	-859.55	-208.29	-110.49	-16.41	7.48
47	2	2	-655.53	938.81	1.51	2	0.50	-526.51	-509.23	-638.25	-208.29	-110.49	-16.71	7.72
48	2	4	-882.57	1263.13	1.53	2	0.33	-704.91	-681.87	-859.53	-208.29	-110.49	-16.09	7.80
49	2	2	-655.27	1001.15	1.42	2	0.50	-525.79	-508.76	-638.24	-208.29	-110.49	-16.52	7.91
50	2	2	-655.16	1006.34	1.41	2	0.50	-526.25	-509.33	-638.24	-208.29	-110.49	-16.47	7.96
51	2	2	-655.57	962.79	1.47	2	0.50	-525.96	-508.62	-638.23	-208.29	-110.49	-16.18	8.25
52	2	2	-655.49	942.03	1.51	2	0.50	-526.48	-509.22	-638.23	-208.29	-110.49	-16.16	8.27
53	2	2	-655.54	960.38	1.48	2	0.50	-525.82	-508.51	-638.23	-208.29	-110.49	-16.11	8.32
54	4	8	-1765.37	2661.89	1.45	7	0.33	-1410.23	-1363.85	-1718.99	-208.29	-110.49	-15.55	8.34
55	2	4	-882.73	1370.42	1.41	2	0.33	-705.49	-682.25	-859.49	-208.29	-110.49	-15.51	8.39
56	2	4	-882.76	1374.49	1.41	2	0.33	-703.89	-680.62	-859.49	-208.29	-110.49	-15.49	8.40
57	2	2	-655.57	959.68	1.48	2	0.50	-526.04	-508.69	-638.22	-208.29	-110.49	-15.99	8.44
58	2	2	-655.19	1016.56	1.40	2	0.50	-525.89	-508.92	-638.22	-208.29	-110.49	-15.99	8.44
59	2	2	-655.47	963.23	1.47	2	0.50	-526.24	-508.99	-638.22	-208.29	-110.49	-15.96	8.47
60	2	2	-655.48	995.97	1.43	2	0.50	-526.82	-509.56	-638.22	-208.29	-110.49	-15.96	8.47
61	2	4	-882.61	1305.54	1.48	2	0.33	-704.93	-681.81	-859.49	-208.29	-110.49	-15.41	8.48
62	2	2	-655.57	963.24	1.47	2	0.50	-525.97	-508.62	-638.22	-208.29	-110.49	-15.94	8.49

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63	2	4	-882.35	1354.57	1.43	2	0.33	-703.95	-681.09	-859.49	-208.29	-110.49	-15.38	8.51
64	2	4	-882.64	1313.56	1.47	2	0.33	-705.02	-681.86	-859.48	-208.29	-110.49	-15.30	8.59
65	4	8	-1765.08	2601.58	1.49	19	0.33	-1409.36	-1363.24	-1718.96	-208.29	-110.49	-15.25	8.64
66	2	2	-655.28	982.69	1.44	2	0.50	-525.53	-508.46	-638.21	-208.29	-110.49	-15.77	8.66
67	2	2	-655.43	995.87	1.43	2	0.50	-526.92	-509.70	-638.21	-208.29	-110.49	-15.63	8.80
68	2	2	-655.47	1024.95	1.39	2	0.50	-526.86	-509.60	-638.21	-208.29	-110.49	-15.63	8.80
69	2	2	-655.43	960.12	1.48	2	0.50	-526.35	-509.12	-638.20	-208.29	-110.49	-15.55	8.88
70	2	2	-655.11	968.00	1.47	2	0.50	-526.30	-509.39	-638.20	-208.29	-110.49	-15.55	8.88
71	2	2	-655.05	968.26	1.47	2	0.50	-526.20	-509.35	-638.20	-208.29	-110.49	-15.43	9.00
72	2	2	-655.06	968.12	1.47	2	0.50	-526.26	-509.39	-638.19	-208.29	-110.49	-15.31	9.12
73	2	2	-655.51	965.03	1.47	2	0.50	-526.05	-508.73	-638.19	-208.29	-110.49	-15.24	9.19
74	2	2	-655.04	968.01	1.47	2	0.50	-526.16	-509.31	-638.19	-208.29	-110.49	-15.19	9.24
75	2	2	-655.04	968.00	1.47	2	0.50	-526.18	-509.33	-638.19	-208.29	-110.49	-15.14	9.29
76	2	2	-655.04	967.98	1.47	2	0.50	-526.17	-509.32	-638.19	-208.29	-110.49	-15.14	9.29
77	2	4	-882.60	1381.84	1.40	2	0.33	-705.73	-682.57	-859.44	-208.29	-110.49	-14.59	9.30
78	2	2	-655.04	967.99	1.47	2	0.50	-526.18	-509.33	-638.19	-208.29	-110.49	-15.12	9.31
79	2	2	-655.58	1029.49	1.38	2	0.50	-526.50	-509.11	-638.19	-208.29	-110.49	-15.10	9.33
80	2	2	-655.56	965.33	1.47	2	0.50	-526.13	-508.75	-638.18	-208.29	-110.49	-15.02	9.41
81	2	2	-655.37	1001.90	1.42	2	0.50	-526.27	-509.08	-638.18	-208.29	-110.49	-15.02	9.41
82	2	4	-882.45	1292.25	1.49	4	0.33	-705.74	-682.72	-859.43	-208.29	-110.49	-14.45	9.44
83	2	2	-655.31	964.55	1.47	2	0.50	-526.31	-509.18	-638.18	-208.29	-110.49	-14.90	9.53
84	2	2	-655.41	995.81	1.43	2	0.50	-526.92	-509.69	-638.18	-208.29	-110.49	-14.90	9.53
85	2	2	-655.43	967.44	1.47	2	0.50	-526.36	-509.10	-638.17	-208.29	-110.49	-14.83	9.60
86	2	2	-655.30	964.52	1.47	2	0.50	-526.32	-509.19	-638.17	-208.29	-110.49	-14.81	9.62
87	2	2	-655.07	968.06	1.47	2	0.50	-526.26	-509.36	-638.17	-208.29	-110.49	-14.78	9.65
88	2	2	-655.39	996.98	1.42	2	0.50	-526.77	-509.55	-638.17	-208.29	-110.49	-14.64	9.79
89	2	4	-882.59	1324.27	1.46	2	0.33	-704.77	-681.59	-859.41	-208.29	-110.49	-14.09	9.80
90	4	8	-1764.77	2566.98	1.51	19	0.33	-1410.50	-1364.52	-1718.79	-208.29	-110.49	-13.90	9.99
91	2	2	-655.25	982.30	1.45	2	0.50	-526.16	-509.07	-638.16	-208.29	-110.49	-14.42	10.01
92	2	2	-655.29	990.23	1.43	2	0.50	-526.21	-509.08	-638.16	-208.29	-110.49	-14.42	10.01
93	2	2	-655.30	971.91	1.46	2	0.50	-525.94	-508.80	-638.16	-208.29	-110.49	-14.37	10.06
94	2	4	-882.40	1290.98	1.50	2	0.33	-705.12	-682.11	-859.39	-208.29	-110.49	-13.80	10.09
95	2	4	-882.72	1312.19	1.47	2	0.33	-704.44	-681.11	-859.39	-208.29	-110.49	-13.77	10.12
96	2	2	-655.55	965.08	1.47	2	0.50	-525.99	-508.59	-638.15	-208.29	-110.49	-14.30	10.13
97	2	2	-655.46	909.44	1.56	2	0.50	-526.85	-509.54	-638.15	-208.29	-110.49	-14.23	10.20
98	2	2	-655.43	965.39	1.47	2	0.50	-526.35	-509.06	-638.14	-208.29	-110.49	-13.99	10.44
99	2	4	-882.34	1358.81	1.42	2	0.33	-704.33	-681.35	-859.36	-208.29	-110.49	-13.29	10.60
100	2	4	-882.49	1401.28	1.38	2	0.33	-704.74	-681.60	-859.35	-208.29	-110.49	-13.26	10.63
101	2	2	-655.28	984.59	1.44	2	0.50	-525.99	-508.84	-638.13	-208.29	-110.49	-13.77	10.66
102	2	4	-882.91	1323.93	1.46	2	0.33	-703.67	-680.11	-859.35	-208.29	-110.49	-13.23	10.66
103	2	4	-882.44	1349.31	1.43	2	0.33	-704.71	-681.62	-859.35	-208.29	-110.49	-13.19	10.70
104	2	4	-882.64	1376.72	1.40	2	0.33	-704.22	-680.93	-859.35	-208.29	-110.49	-13.11	10.78
105	2	2	-655.37	935.71	1.52	2	0.50	-526.85	-509.60	-638.12	-208.29	-110.49	-13.60	10.83
106	2	2	-655.15	1018.51	1.39	2	0.50	-525.83	-508.80	-638.12	-208.29	-110.49	-13.50	10.93
107	4	6	-1537.68	2300.95	1.46	4	0.40	-1230.74	-1190.51	-1497.45	-208.29	-110.49	-13.16	10.95
108	2	2	-655.41	965.43	1.47	2	0.50	-526.38	-509.09	-638.12	-208.29	-110.49	-13.43	11.00
109	2	2	-655.14	941.78	1.51	2	0.50	-526.13	-509.11	-638.12	-208.29	-110.49	-13.41	11.02
110	4	6	-1537.69	2252.54	1.49	2	0.40	-1231.77	-1191.53	-1497.45	-208.29	-110.49	-13.09	11.02
111	2	2	-655.24	1007.47	1.41	2	0.50	-525.95	-508.82	-638.11	-208.29	-110.49	-13.38	11.05
112	2	2	-655.06	968.08	1.47	2	0.50	-526.24	-509.29	-638.11	-208.29	-110.49	-13.36	11.07
113	2	2	-655.43	909.56	1.56	2	0.50	-526.86	-509.54	-638.11	-208.29	-110.49	-13.29	11.14
114	2	2	-655.34	996.01	1.43	2	0.50	-526.98	-509.75	-638.11	-208.29	-110.49	-13.17	11.26
115	2	4	-882.43	1322.75	1.46	2	0.33	-705.11	-681.99	-859.31	-208.29	-110.49	-12.49	11.40
116	2	2	-654.96	973.82	1.46	2	0.50	-525.46	-508.59	-638.09	-208.29	-110.49	-12.88	11.55
117	2	2	-654.96	971.60	1.46	2	0.50	-525.43	-508.56	-638.09	-208.29	-110.49	-12.85	11.58
118	2	4	-882.36	1305.23	1.48	2	0.33	-704.51	-681.44	-859.29	-208.29	-110.49	-12.28	11.61
119	2	2	-655.22	927.75	1.53	2	0.50	-525.99	-508.86	-638.09	-208.29	-110.49	-12.80	11.63
120	2	2	-655.22	927.80	1.53	2	0.50	-526.01	-508.88	-638.09	-208.29	-110.49	-12.78	11.65
121	2	4	-882.41	1317.86	1.47	2	0.33	-704.74	-681.62	-859.29	-208.29	-110.49	-12.24	11.65
122	2	2	-655.19	939.93	1.51	2	0.50	-526.35	-509.24	-638.08	-208.29	-110.49	-12.61	11.82
123	2	2	-655.12	1061.68	1.34	2	0.50	-525.78	-508.74	-638.08	-208.29	-110.49	-12.61	11.82
124	2	2	-655.22	927.76	1.53	2	0.50	-526.00	-508.86	-638.08	-208.29	-110.49	-12.56	11.87
125	2	2	-655.33	996.66	1.42	2	0.50	-527.02	-509.77	-638.08	-208.29	-110.49	-12.54	11.89
126	2	2	-654.97	968.73	1.47	2	0.50	-526.13	-509.23	-638.07	-208.29	-110.49	-12.39	12.04
127	4	8	-1764.89	2759.68	1.40	14	0.33	-1410.40	-1364.03	-1718.52	-208.29	-110.49	-11.74	12.15
128	2	2	-655.24	914.99	1.55	2	0.50	-526.70	-509.53	-638.07	-208.29	-110.49	-12.27	12.16
129	2	4	-882.29	1359.74	1.42	2	0.33	-705.25	-682.21	-859.25	-208.29	-110.49	-11.57	12.32

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130	2	2	-655.19	1045.41	1.36	2	0.50	-525.13	-508.00	-638.06	-208.29	-110.49	-12.06	12.37
131	2	4	-882.21	1336.84	1.45	2	0.33	-704.75	-681.79	-859.25	-208.29	-110.49	-11.50	12.39
132	2	2	-655.22	927.74	1.53	2	0.50	-526.01	-508.85	-638.06	-208.29	-110.49	-12.03	12.40
133	2	2	-655.22	927.77	1.53	2	0.50	-526.01	-508.85	-638.06	-208.29	-110.49	-11.96	12.47
134	2	2	-655.32	959.65	1.48	2	0.50	-526.44	-509.17	-638.05	-208.29	-110.49	-11.86	12.57
135	2	4	-882.51	1323.48	1.46	2	0.33	-704.47	-681.18	-859.22	-208.29	-110.49	-11.17	12.72
136	2	2	-655.18	939.95	1.51	2	0.50	-526.36	-509.22	-638.04	-208.29	-110.49	-11.65	12.78
137	2	4	-882.22	1410.30	1.37	2	0.33	-704.00	-681.00	-859.22	-208.29	-110.49	-11.07	12.82
138	2	2	-655.28	1010.08	1.41	2	0.50	-526.32	-509.07	-638.03	-208.29	-110.49	-11.45	12.98
139	2	4	-882.29	1338.63	1.44	2	0.33	-704.71	-681.63	-859.21	-208.29	-110.49	-10.88	13.01
140	2	4	-882.20	1340.28	1.44	2	0.33	-705.06	-682.06	-859.20	-208.29	-110.49	-10.81	13.08
141	2	2	-655.13	927.69	1.53	2	0.50	-526.05	-508.94	-638.02	-208.29	-110.49	-11.19	13.24
142	2	4	-882.20	1322.07	1.46	2	0.33	-704.72	-681.71	-859.19	-208.29	-110.49	-10.64	13.25
143	2	4	-882.53	1511.75	1.28	2	0.33	-705.00	-681.65	-859.18	-208.29	-110.49	-10.51	13.38
144	2	4	-882.34	1346.44	1.43	2	0.33	-705.31	-682.15	-859.18	-208.29	-110.49	-10.51	13.38
145	2	2	-655.03	953.11	1.49	2	0.50	-525.91	-508.90	-638.02	-208.29	-110.49	-11.02	13.41
146	4	8	-1764.25	2611.46	1.48	29	0.33	-1408.38	-1362.47	-1718.34	-208.29	-110.49	-10.30	13.59
147	2	4	-882.22	1394.45	1.39	2	0.33	-704.69	-681.64	-859.17	-208.29	-110.49	-10.28	13.61
148	2	4	-882.48	1313.51	1.47	2	0.33	-704.69	-681.37	-859.16	-208.29	-110.49	-10.20	13.69
149	2	2	-655.32	998.05	1.42	2	0.50	-526.02	-508.70	-638.00	-208.29	-110.49	-10.68	13.75
150	2	4	-882.22	1384.53	1.40	2	0.33	-704.47	-681.39	-859.14	-208.29	-110.49	-9.88	14.01
151	2	4	-882.29	1359.59	1.42	2	0.33	-704.61	-681.46	-859.14	-208.29	-110.49	-9.83	14.06
152	2	4	-882.22	1300.69	1.49	2	0.33	-705.09	-682.00	-859.13	-208.29	-110.49	-9.72	14.17
153	4	8	-1764.43	2808.96	1.38	14	0.33	-1410.25	-1364.08	-1718.26	-208.29	-110.49	-9.64	14.25
154	2	4	-882.03	1370.53	1.41	2	0.33	-704.52	-681.62	-859.13	-208.29	-110.49	-9.61	14.28
155	2	2	-655.16	982.23	1.45	2	0.50	-526.44	-509.26	-637.98	-208.29	-110.49	-10.08	14.35
156	2	4	-882.25	1304.47	1.48	2	0.33	-703.95	-680.82	-859.12	-208.29	-110.49	-9.53	14.36
157	2	2	-654.99	1004.12	1.41	2	0.50	-526.04	-509.03	-637.98	-208.29	-110.49	-10.05	14.38
158	2	2	-655.20	1003.54	1.41	2	0.50	-526.95	-509.72	-637.97	-208.29	-110.49	-10.01	14.42
159	2	2	-655.10	1017.76	1.40	2	0.50	-525.97	-508.84	-637.97	-208.29	-110.49	-9.98	14.45
160	2	2	-655.19	1027.93	1.38	2	0.50	-525.98	-508.76	-637.97	-208.29	-110.49	-9.96	14.47
161	2	2	-655.03	948.85	1.50	2	0.50	-526.19	-509.13	-637.97	-208.29	-110.49	-9.93	14.50
162	2	4	-882.34	1386.08	1.39	2	0.33	-705.00	-681.77	-859.11	-208.29	-110.49	-9.38	14.51
163	2	2	-655.16	991.60	1.43	2	0.50	-526.53	-509.33	-637.96	-208.29	-110.49	-9.72	14.71
164	2	2	-655.19	907.84	1.56	2	0.50	-526.38	-509.15	-637.96	-208.29	-110.49	-9.72	14.71
165	2	2	-654.91	992.08	1.43	2	0.50	-525.87	-508.92	-637.96	-208.29	-110.49	-9.64	14.79
166	4	6	-1537.31	2326.36	1.44	2	0.40	-1230.87	-1190.61	-1497.05	-208.29	-110.49	-9.26	14.85
167	2	4	-882.08	1312.22	1.47	2	0.33	-704.28	-681.29	-859.09	-208.29	-110.49	-9.03	14.86
168	8	8	-2619.13	4033.52	1.41	61	0.50	-2101.72	-2034.40	-2551.81	-208.29	-110.49	-9.48	14.95
169	2	4	-882.15	1306.13	1.48	2	0.33	-704.40	-681.33	-859.08	-208.29	-110.49	-8.79	15.10
170	2	2	-655.07	971.16	1.46	2	0.50	-526.03	-508.90	-637.94	-208.29	-110.49	-9.28	15.15
171	2	2	-654.91	927.72	1.53	2	0.50	-526.08	-509.11	-637.94	-208.29	-110.49	-9.23	15.20
172	2	2	-655.20	976.73	1.45	2	0.50	-526.51	-509.25	-637.94	-208.29	-110.49	-9.23	15.20
173	2	4	-882.23	1411.57	1.37	2	0.33	-704.34	-681.18	-859.07	-208.29	-110.49	-8.67	15.22
174	4	8	-1764.28	2602.72	1.48	19	0.33	-1409.90	-1363.76	-1718.14	-208.29	-110.49	-8.65	15.24
175	2	4	-882.02	1367.33	1.41	2	0.33	-704.77	-681.82	-859.07	-208.29	-110.49	-8.63	15.26
176	2	4	-882.40	1306.95	1.48	2	0.33	-705.74	-682.41	-859.07	-208.29	-110.49	-8.61	15.28
177	4	6	-1537.23	2298.88	1.46	2	0.40	-1230.22	-1189.99	-1497.00	-208.29	-110.49	-8.75	15.36
178	2	4	-882.16	1499.60	1.29	2	0.33	-704.76	-681.65	-859.05	-208.29	-110.49	-8.42	15.47
179	2	2	-655.09	937.08	1.52	2	0.50	-526.53	-509.37	-637.93	-208.29	-110.49	-8.90	15.53
180	2	4	-882.16	1419.13	1.36	2	0.33	-705.39	-682.27	-859.04	-208.29	-110.49	-8.26	15.63
181	2	4	-882.06	1486.41	1.30	2	0.33	-704.39	-681.37	-859.04	-208.29	-110.49	-8.26	15.63
182	2	4	-881.94	1294.88	1.49	2	0.33	-704.24	-681.34	-859.04	-208.29	-110.49	-8.22	15.67
183	2	4	-882.33	1340.48	1.44	2	0.33	-703.85	-680.56	-859.04	-208.29	-110.49	-8.21	15.68
184	2	2	-655.02	971.04	1.46	2	0.50	-526.16	-509.06	-637.92	-208.29	-110.49	-8.68	15.75
185	2	2	-655.19	1025.01	1.39	2	0.50	-526.64	-509.37	-637.92	-208.29	-110.49	-8.61	15.82
186	2	2	-654.97	939.90	1.51	2	0.50	-526.40	-509.35	-637.92	-208.29	-110.49	-8.58	15.85
187	2	2	-655.16	927.98	1.53	2	0.50	-526.82	-509.57	-637.91	-208.29	-110.49	-8.49	15.94
188	2	4	-882.20	1284.46	1.50	2	0.33	-704.53	-681.35	-859.02	-208.29	-110.49	-7.82	16.07
189	2	4	-882.15	1354.38	1.43	2	0.33	-704.57	-681.43	-859.01	-208.29	-110.49	-7.76	16.13
190	2	4	-882.01	1347.16	1.43	2	0.33	-703.60	-680.60	-859.01	-208.29	-110.49	-7.73	16.16
191	2	4	-882.00	1325.23	1.46	2	0.33	-703.99	-680.99	-859.00	-208.29	-110.49	-7.60	16.29
192	2	2	-654.94	1001.08	1.42	2	0.50	-525.95	-508.90	-637.89	-208.29	-110.49	-8.00	16.43
193	2	2	-655.15	927.91	1.53	2	0.50	-526.82	-509.56	-637.89	-208.29	-110.49	-7.93	16.50
194	2	2	-654.90	947.70	1.50	2	0.50	-526.21	-509.20	-637.89	-208.29	-110.49	-7.91	16.52
195	2	2	-654.84	972.10	1.46	2	0.50	-526.08	-509.13	-637.89	-208.29	-110.49	-7.88	16.55
196	2	4	-882.02	1395.06	1.38	2	0.33	-703.53	-680.50	-858.99	-208.29	-110.49	-7.34	16.55

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197	2	2	-654.90	1009.28	1.41	2	0.50	-525.63	-508.62	-637.89	-208.29	-110.49	-7.86	16.57
198	4	8	-1763.98	2693.31	1.43	4	0.33	-1409.05	-1363.04	-1717.97	-208.29	-110.49	-7.31	16.58
199	2	2	-654.99	1040.89	1.36	2	0.50	-525.51	-508.40	-637.88	-208.29	-110.49	-7.83	16.60
200	2	4	-881.90	1339.72	1.44	2	0.33	-704.52	-681.59	-858.97	-208.29	-110.49	-7.10	16.79
201	2	2	-655.04	1000.64	1.42	2	0.50	-525.83	-508.67	-637.88	-208.29	-110.49	-7.62	16.81
202	2	2	-654.96	964.06	1.47	2	0.50	-525.83	-508.74	-637.87	-208.29	-110.49	-7.55	16.88
203	2	4	-882.00	1431.08	1.35	2	0.33	-704.89	-681.85	-858.96	-208.29	-110.49	-6.94	16.95
204	2	4	-882.00	1300.89	1.48	2	0.33	-704.96	-681.91	-858.95	-208.29	-110.49	-6.79	17.10
205	2	2	-655.15	1026.94	1.38	2	0.50	-526.17	-508.88	-637.86	-208.29	-110.49	-7.28	17.15
206	2	2	-654.98	1002.73	1.42	2	0.50	-526.07	-508.95	-637.86	-208.29	-110.49	-7.21	17.22
207	2	2	-654.95	1053.82	1.35	2	0.50	-525.59	-508.49	-637.85	-208.29	-110.49	-7.04	17.39
208	2	2	-654.98	1004.27	1.41	2	0.50	-526.27	-509.14	-637.85	-208.29	-110.49	-6.97	17.46
209	2	2	-654.86	1051.28	1.35	2	0.50	-525.94	-508.93	-637.85	-208.29	-110.49	-6.94	17.49
210	2	2	-655.07	933.03	1.52	2	0.50	-526.03	-508.81	-637.85	-208.29	-110.49	-6.92	17.51
211	2	4	-882.17	1475.08	1.31	2	0.33	-703.62	-680.37	-858.92	-208.29	-110.49	-6.33	17.56
212	2	2	-655.08	947.43	1.50	2	0.50	-526.15	-508.91	-637.84	-208.29	-110.49	-6.82	17.61
213	2	2	-654.93	969.29	1.46	2	0.50	-525.99	-508.90	-637.84	-208.29	-110.49	-6.80	17.63
214	2	2	-655.08	1057.61	1.34	2	0.50	-525.47	-508.23	-637.84	-208.29	-110.49	-6.70	17.73
215	2	4	-882.00	1434.90	1.35	2	0.33	-704.27	-681.18	-858.91	-208.29	-110.49	-6.05	17.84
216	2	4	-881.96	1315.94	1.47	2	0.33	-704.56	-681.51	-858.91	-208.29	-110.49	-6.04	17.85
217	2	2	-655.23	1043.49	1.36	2	0.50	-525.54	-508.14	-637.83	-208.29	-110.49	-6.56	17.87
218	2	4	-882.09	1590.85	1.21	2	0.33	-704.09	-680.89	-858.89	-208.29	-110.49	-5.84	18.05
219	2	2	-654.86	971.64	1.46	2	0.50	-525.76	-508.72	-637.82	-208.29	-110.49	-6.22	18.21
220	2	4	-881.69	1386.24	1.39	2	0.33	-704.76	-681.95	-858.88	-208.29	-110.49	-5.62	18.27
221	2	2	-655.09	971.86	1.46	2	0.50	-526.74	-509.46	-637.81	-208.29	-110.49	-6.07	18.36
222	2	2	-655.14	1005.19	1.41	2	0.50	-525.91	-508.58	-637.81	-208.29	-110.49	-6.07	18.36
223	2	2	-655.00	1042.87	1.36	2	0.50	-526.29	-509.10	-637.81	-208.29	-110.49	-5.95	18.48
224	2	4	-881.78	1405.91	1.37	2	0.33	-704.39	-681.47	-858.86	-208.29	-110.49	-5.38	18.51
225	2	2	-655.09	1080.17	1.31	2	0.50	-525.05	-507.76	-637.80	-208.29	-110.49	-5.88	18.55
226	2	4	-882.03	1383.98	1.40	2	0.33	-704.16	-680.99	-858.86	-208.29	-110.49	-5.33	18.56
227	2	4	-881.81	1367.88	1.41	2	0.33	-704.86	-681.91	-858.86	-208.29	-110.49	-5.30	18.59
228	2	4	-882.17	1349.99	1.43	2	0.33	-703.91	-680.59	-858.85	-208.29	-110.49	-5.14	18.75
229	2	4	-881.99	1440.48	1.34	2	0.33	-703.88	-680.74	-858.85	-208.29	-110.49	-5.14	18.75
230	2	2	-654.76	964.96	1.47	2	0.50	-525.46	-508.49	-637.79	-208.29	-110.49	-5.47	18.96
231	2	2	-654.89	968.16	1.47	2	0.50	-526.31	-509.20	-637.78	-208.29	-110.49	-5.35	19.08
232	2	2	-655.12	994.60	1.43	2	0.50	-525.18	-507.84	-637.78	-208.29	-110.49	-5.25	19.18
233	2	2	-654.99	1143.69	1.24	2	0.50	-525.73	-508.52	-637.78	-208.29	-110.49	-5.23	19.20
234	2	4	-881.66	1435.18	1.35	2	0.33	-703.94	-681.10	-858.82	-208.29	-110.49	-4.69	19.20
235	2	2	-654.84	968.20	1.47	2	0.50	-526.32	-509.26	-637.78	-208.29	-110.49	-5.21	19.22
236	4	6	-1537.12	2258.90	1.48	2	0.40	-1230.16	-1189.63	-1496.59	-208.29	-110.49	-4.83	19.28
237	2	4	-881.94	1324.40	1.46	2	0.33	-704.15	-681.02	-858.81	-208.29	-110.49	-4.57	19.32
238	2	4	-881.88	1417.51	1.36	2	0.33	-704.74	-681.67	-858.81	-208.29	-110.49	-4.56	19.33
239	2	2	-654.82	977.54	1.45	2	0.50	-525.76	-508.71	-637.77	-208.29	-110.49	-5.06	19.37
240	2	4	-882.01	1432.86	1.35	2	0.33	-704.76	-681.55	-858.80	-208.29	-110.49	-4.41	19.48
241	2	4	-881.71	1411.45	1.37	2	0.33	-703.91	-681.00	-858.80	-208.29	-110.49	-4.36	19.53
242	2	2	-654.85	997.91	1.42	2	0.50	-525.90	-508.81	-637.76	-208.29	-110.49	-4.84	19.59
243	2	2	-654.92	998.55	1.42	2	0.50	-525.97	-508.81	-637.76	-208.29	-110.49	-4.80	19.63
244	2	2	-654.85	1045.32	1.36	2	0.50	-525.46	-508.37	-637.76	-208.29	-110.49	-4.77	19.66
245	2	2	-654.88	998.72	1.42	2	0.50	-525.97	-508.84	-637.75	-208.29	-110.49	-4.67	19.76
246	2	4	-881.92	1445.56	1.34	2	0.33	-704.44	-681.31	-858.79	-208.29	-110.49	-4.11	19.78
247	2	2	-654.98	1000.06	1.42	2	0.50	-526.06	-508.83	-637.75	-208.29	-110.49	-4.63	19.80
248	2	2	-654.92	960.89	1.48	2	0.50	-525.50	-508.32	-637.74	-208.29	-110.49	-4.43	20.00
249	2	2	-654.68	944.06	1.50	2	0.50	-526.11	-509.17	-637.74	-208.29	-110.49	-4.43	20.00
250	2	2	-654.89	958.29	1.48	2	0.50	-525.66	-508.51	-637.74	-208.29	-110.49	-4.36	20.07
251	2	4	-882.01	1432.77	1.35	2	0.33	-703.25	-680.01	-858.77	-208.29	-110.49	-3.82	20.07
252	2	4	-881.90	1388.95	1.39	2	0.33	-704.41	-681.27	-858.76	-208.29	-110.49	-3.77	20.12
253	2	4	-881.85	1417.91	1.36	2	0.33	-703.59	-680.50	-858.76	-208.29	-110.49	-3.75	20.14
254	2	4	-881.73	1464.85	1.32	2	0.33	-704.70	-681.73	-858.76	-208.29	-110.49	-3.75	20.14
255	2	2	-655.00	1025.40	1.38	2	0.50	-526.70	-509.44	-637.74	-208.29	-110.49	-4.26	20.17
256	2	2	-654.80	1006.84	1.41	2	0.50	-525.15	-508.08	-637.73	-208.29	-110.49	-4.14	20.29
257	2	2	-654.78	1099.43	1.29	2	0.50	-525.41	-508.36	-637.73	-208.29	-110.49	-4.14	20.29
258	2	2	-654.76	1003.89	1.41	2	0.50	-526.13	-509.10	-637.73	-208.29	-110.49	-4.05	20.38
259	2	2	-654.71	1064.96	1.33	2	0.50	-525.49	-508.50	-637.72	-208.29	-110.49	-3.95	20.48
260	4	6	-1536.32	2327.04	1.44	2	0.40	-1229.78	-1189.93	-1496.47	-208.29	-110.49	-3.63	20.48
261	4	4	-1309.71	2066.21	1.37	19	0.50	-1051.28	-1017.01	-1275.44	-208.29	-110.49	-3.89	20.54
262	2	2	-654.95	986.63	1.44	2	0.50	-525.49	-508.26	-637.72	-208.29	-110.49	-3.88	20.55
263	2	2	-654.83	968.21	1.47	2	0.50	-526.34	-509.23	-637.72	-208.29	-110.49	-3.88	20.55

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264	2	4	-881.93	1435.68	1.35	2	0.33	-704.59	-681.40	-858.74	-208.29	-110.49	-3.32	20.57
265	2	4	-881.67	1505.06	1.28	2	0.33	-704.20	-681.26	-858.73	-208.29	-110.49	-3.26	20.63
266	4	8	-1763.25	2961.86	1.30	19	0.33	-1407.23	-1361.44	-1717.46	-208.29	-110.49	-3.22	20.67
267	2	4	-881.73	1417.43	1.36	2	0.33	-704.84	-681.84	-858.73	-208.29	-110.49	-3.16	20.73
268	2	2	-654.66	1042.49	1.36	2	0.50	-525.23	-508.28	-637.71	-208.29	-110.49	-3.66	20.77
269	2	2	-654.64	969.97	1.46	2	0.50	-525.96	-509.03	-637.71	-208.29	-110.49	-3.66	20.77
270	2	2	-654.54	999.01	1.42	2	0.50	-525.31	-508.48	-637.71	-208.29	-110.49	-3.59	20.84
271	2	2	-654.81	1012.77	1.40	2	0.50	-525.72	-508.62	-637.71	-208.29	-110.49	-3.54	20.89
272	2	2	-654.80	968.38	1.47	2	0.50	-526.25	-509.16	-637.71	-208.29	-110.49	-3.52	20.91
273	2	2	-654.82	966.57	1.47	2	0.50	-526.19	-509.07	-637.70	-208.29	-110.49	-3.44	20.99
274	2	2	-654.77	985.12	1.44	2	0.50	-525.59	-508.52	-637.70	-208.29	-110.49	-3.28	21.15
275	2	4	-881.95	1542.09	1.25	2	0.33	-703.52	-680.27	-858.70	-208.29	-110.49	-2.68	21.21
276	2	4	-881.70	1436.68	1.34	2	0.33	-704.05	-681.05	-858.70	-208.29	-110.49	-2.66	21.23
277	2	4	-881.77	1391.29	1.39	2	0.33	-703.87	-680.80	-858.70	-208.29	-110.49	-2.66	21.23
278	4	6	-1536.28	2346.11	1.43	2	0.40	-1229.87	-1189.97	-1496.38	-208.29	-110.49	-2.78	21.33
279	4	8	-1763.27	2954.96	1.31	33	0.33	-1407.40	-1361.50	-1717.37	-208.29	-110.49	-2.51	21.38
280	2	2	-654.76	951.93	1.49	2	0.50	-525.96	-508.88	-637.68	-208.29	-110.49	-3.01	21.42
281	2	4	-881.70	1360.47	1.42	2	0.33	-704.67	-681.65	-858.68	-208.29	-110.49	-2.47	21.42
282	2	4	-881.64	1331.10	1.45	2	0.33	-704.40	-681.44	-858.68	-208.29	-110.49	-2.35	21.54
283	2	2	-654.63	990.46	1.43	2	0.50	-525.42	-508.47	-637.68	-208.29	-110.49	-2.84	21.59
284	2	2	-654.87	1024.45	1.39	2	0.50	-525.81	-508.61	-637.67	-208.29	-110.49	-2.75	21.68
285	2	4	-881.76	1336.20	1.45	2	0.33	-705.20	-682.11	-858.67	-208.29	-110.49	-2.19	21.70
286	2	2	-654.87	1027.61	1.38	2	0.50	-526.20	-509.00	-637.67	-208.29	-110.49	-2.58	21.85
287	2	2	-654.76	1004.36	1.41	2	0.50	-525.74	-508.65	-637.67	-208.29	-110.49	-2.58	21.85
288	2	4	-881.79	1403.75	1.38	2	0.33	-703.77	-680.64	-858.66	-208.29	-110.49	-2.03	21.86
289	2	4	-881.63	1343.47	1.44	2	0.33	-704.92	-681.94	-858.65	-208.29	-110.49	-1.94	21.95
290	4	6	-1536.29	2364.64	1.42	4	0.40	-1230.56	-1190.58	-1496.31	-208.29	-110.49	-2.12	21.99
291	8	12	-3072.11	4690.32	1.43	14	0.40	-2458.95	-2379.44	-2992.60	-208.29	-110.49	-2.05	22.06
292	2	2	-654.70	959.02	1.48	2	0.50	-525.70	-508.66	-637.66	-208.29	-110.49	-2.36	22.07
293	4	8	-1763.33	2812.88	1.37	2	0.33	-1408.42	-1362.36	-1717.27	-208.29	-110.49	-1.70	22.19
294	2	2	-654.85	955.60	1.49	2	0.50	-525.78	-508.58	-637.65	-208.29	-110.49	-2.09	22.34
295	2	2	-654.87	996.67	1.42	2	0.50	-526.05	-508.82	-637.64	-208.29	-110.49	-2.02	22.41
296	2	4	-881.68	1385.32	1.39	2	0.33	-704.07	-681.01	-858.62	-208.29	-110.49	-1.37	22.52
297	2	4	-881.57	1305.62	1.48	2	0.33	-704.29	-681.33	-858.61	-208.29	-110.49	-1.36	22.53
298	2	2	-654.54	1023.23	1.39	2	0.50	-525.54	-508.64	-637.64	-208.29	-110.49	-1.88	22.55
299	2	2	-654.73	948.60	1.50	2	0.50	-526.07	-508.97	-637.63	-208.29	-110.49	-1.80	22.63
300	2	4	-881.72	1330.96	1.45	2	0.33	-704.77	-681.66	-858.61	-208.29	-110.49	-1.21	22.68
301	2	2	-654.59	973.25	1.46	2	0.50	-525.37	-508.41	-637.63	-208.29	-110.49	-1.71	22.72
302	4	4	-1309.01	2380.82	1.19	14	0.50	-1050.14	-1016.39	-1275.26	-208.29	-110.49	-1.70	22.73
303	2	2	-654.78	992.00	1.43	2	0.50	-525.69	-508.54	-637.63	-208.29	-110.49	-1.64	22.79
304	2	2	-654.64	1012.41	1.40	2	0.50	-525.58	-508.57	-637.63	-208.29	-110.49	-1.64	22.79
305	2	2	-654.78	1013.40	1.40	2	0.50	-526.19	-509.04	-637.63	-208.29	-110.49	-1.59	22.84
306	8	12	-3072.09	4721.67	1.42	14	0.40	-2459.84	-2380.18	-2992.43	-208.29	-110.49	-1.21	22.90
307	2	2	-654.74	1152.80	1.23	2	0.50	-525.55	-508.43	-637.62	-208.29	-110.49	-1.42	23.01
308	8	8	-2619.16	4147.89	1.37	61	0.50	-2102.85	-2034.16	-2550.47	-208.29	-110.49	-1.40	23.03
309	2	2	-654.65	968.47	1.47	2	0.50	-526.31	-509.28	-637.62	-208.29	-110.49	-1.37	23.06
310	2	2	-654.74	963.12	1.47	2	0.50	-524.89	-507.77	-637.62	-208.29	-110.49	-1.35	23.08
311	2	4	-881.86	1264.10	1.53	2	0.33	-705.44	-682.16	-858.58	-208.29	-110.49	-0.78	23.11
312	8	12	-3071.64	4598.67	1.46	2	0.40	-2458.83	-2379.57	-2992.38	-208.29	-110.49	-0.96	23.15
313	2	2	-654.76	1043.35	1.36	2	0.50	-525.34	-508.19	-637.61	-208.29	-110.49	-1.27	23.16
314	2	2	-654.86	997.02	1.42	2	0.50	-525.55	-508.30	-637.61	-208.29	-110.49	-1.23	23.20
315	2	4	-881.70	1407.52	1.37	2	0.33	-703.90	-680.77	-858.57	-208.29	-110.49	-0.63	23.26
316	2	2	-654.78	1082.30	1.31	2	0.50	-525.68	-508.51	-637.61	-208.29	-110.49	-1.11	23.32
317	2	4	-881.61	1406.44	1.37	2	0.33	-704.08	-681.03	-858.56	-208.29	-110.49	-0.54	23.35
318	4	6	-1536.25	2365.84	1.42	2	0.40	-1230.76	-1190.67	-1496.16	-208.29	-110.49	-0.71	23.40
319	2	2	-654.87	969.39	1.46	14	0.50	-525.31	-508.04	-637.60	-208.29	-110.49	-0.96	23.47
320	4	6	-1536.27	2293.42	1.46	2	0.40	-1229.78	-1189.66	-1496.15	-208.29	-110.49	-0.55	23.56
321	4	6	-1536.29	2376.02	1.41	2	0.40	-1229.60	-1189.45	-1496.14	-208.29	-110.49	-0.51	23.60
322	2	2	-654.68	1069.71	1.33	2	0.50	-524.92	-507.83	-637.59	-208.29	-110.49	-0.74	23.69
323	2	2	-654.73	986.22	1.44	2	0.50	-525.77	-508.63	-637.59	-208.29	-110.49	-0.74	23.69
324	2	4	-881.60	1304.95	1.48	2	0.33	-704.31	-681.25	-858.54	-208.29	-110.49	-0.18	23.71
325	2	4	-881.83	1319.48	1.46	2	0.33	-702.69	-679.40	-858.54	-208.29	-110.49	-0.17	23.72
326	2	4	-881.86	1429.05	1.35	2	0.33	-703.75	-680.43	-858.54	-208.29	-110.49	-0.14	23.75
327	2	4	-881.84	1673.57	1.15	2	0.33	-703.87	-680.57	-858.54	-208.29	-110.49	-0.09	23.80
328	4	6	-1536.12	2293.16	1.46	4	0.40	-1229.93	-1189.93	-1496.12	-208.29	-110.49	-0.28	23.83
329	2	2	-654.71	1005.05	1.41	2	0.50	-525.94	-508.81	-637.58	-208.29	-110.49	-0.48	23.95
330	4	4	-1309.23	1950.10	1.46	14	0.50	-1050.73	-1016.66	-1275.16	-208.29	-110.49	-0.47	23.96

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331	2	2	-654.62	951.14	1.49	2	0.50	-525.80	-508.75	-637.57	-208.29	-110.49	-0.14	24.29
332	2	2	-654.66	968.67	1.47	2	0.50	-526.30	-509.20	-637.56	-208.29	-110.49	-0.12	24.31
333	2	2	-654.59	1008.19	1.41	2	0.50	-525.47	-508.44	-637.56	-208.29	-110.49	-0.02	24.41