Tables of signed graphs

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TABLES OF SIGNED GRAPHS

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Contents

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A. ABSTRACT

1. The nonisomorphic switching classes of signed graphs of the orders n ≤ 6 are enumerated, and exposed in terms of (the upper right half of) a representing adjacency matrix E. The eigenvalues of each E are given.

2. The connected Coxeter signed graphs are exposed. The graphs from 1. are distinguished into classes having the same determinant det(2I+E) and the same signature sig(2I+E). For each class the related Coxeter graph (if present) is given.

3. The operation of local switching (which is not an equivalence relation) generates a subdivision of the classes found in 2. Local switching relates certain pairs of signed graphs within the connected subclasses. We expose these relations. In the standard cases we indicate the Coxeter graph of the subclass.

4. The signed graphs in the clusters associated with the root lattices of type A_k, D_k, E_k are given for k ≤ 8.

AMS (MOS) subject calssification, 05C25, 05C30, 05C50, 20F32.

B. DEFINITIONS

1. SIGNED GRAPH.

A graph $\Gamma = (V, E)$ consists of an n-set V, the vertices, and a set E of pairs from V, the edges of Γ. A signed graph (Γ, f) is a graph Γ with a signing $f\colon E\to\{\pm 1\}$ of the edges.

2. SWITCHING OF A SIGNED GRAPH.

For any subset $X \subseteq V$, let f_x denote the signing obtained from f by reversing the sign of each edge having one vertex in X. This defines an equivalence relation, called switching, on the signings since

$$f = f_\phi \ , f = (f_x)_x \ , \ (f_x)_y = f_{x \Delta y} \ .$$

The equivalence classes $\{f_x : X \subseteq V(\Gamma)\}$ are the signed switching classes of (Γ, f). The present Report provides the tables of the nonisomorphic signed switching classes of the graphs on $n = 4, 5, 6$ vertices. The unsigned graphs have been enumerated in [Cv Pe] and [CDGT]. The numbers are as follows:

vertices :	2	3	4	5	6	7
graphs :	2	4	11	34	156	1044
connected graphs:	1	2	6	21	112	853
signed graphs:	2	5	18	100	1242	?
connected signed graphs:	1	3	12	79	1123	?

3. ADJACENCY MATRIX

Any signed graph is represented by its adjacency matrix E, which for any $i, j \in V$ is defined by the entry

$E_{ij} = f(\{i,j\})$ for $\{i,j\} \in E$, $E_{ij} = 0$ otherwise.

Switching with respect to $X \subseteq V$ transforms E into DED, where D is the diagonal matrix with entries -1 at the positions corresponding to X, and 1 at the positions of $V-X$. The eigenvalues of E and DED are the same, and we call them the spectrum (the eigenvalues and their multiplicities) of the signed switching class. These spectra are given in the tables, for $n = 4, 5, 6$. We mention the nonisomorphic signed switching classes which are cospectral, that is, which have the same spectrum.

4. INTERSECTION MATRIX, SIGNATURE.

If E is the adjacency matrix of a signed graph, then $2I+E$ is a symmetric $n \times n$ matrix with entries 2 on the diagonal and 0, +1, -1 elsewhere. We call $2I+E$ an intersection matrix, cf. [Slo]. Let $2I+E$ have signature $(p,q,n-p-q)$, that is, have p positive, q negative and $n-p-q$ zero eigenvalues. Then $2I+E$ may be viewed as the Gram matrix of the inner products of n vectors in the indefinite space $R^{p,q}$ with the inner products

$$(x,y) = x_1 y_1 + x_2 y_2 + \dots + x_p y_p - x_{p+1} y_{p+1} - \dots - x_{p+q} y_{p+q} \ .$$

5. STANDARD INTERSECTION MATRIX.

We call $2I+E$ standard if its signature reads $\epsilon++\dots+$, $\epsilon \in \{+1,-1,0\}$, so if $p=n$, or $p=n-1,q=1$, or $p=n-1,q=0$. Otherwise the matrix $2I+E$ is called nonstandard.

6. COXETER SIGNED GRAPH

We are particularly interested in signed graphs with a signing - , that is, for which the adjacency matrix E has entries 0 and -1 only. Such signed graphs will be called Coxeter signed graphs, since they correspond to the fundamental bases for Coxeter groups.

7. LOCAL SWITCHING.

This is an operation on the set of the switching classes of signed graphs of order n, which we now explain. Let (Γ, f) denote a switching class of signed graphs. In Γ we select any vertex i, and call $V(i)$ the set of its neighbours. We take $f(i,x)=+$ for all $x \in V(i)$ (by switching). The rims of $V(i)$ are the connected components of the graph which on $V(i)$ is induced by the edges of (Γ, f) with sign -. We select any union J of rims, write $V(i) = J \cup K$ (and notice that the edges from J to K have sign +). Local Switching w.r.t. (i,J) is the following operation:

(i) Change the signs of the edges from i to J from + to -.

(ii) Delete the edges from J to K, and replace the nonedges by edges with sign -.

In the following example we select $i=1$. The rims are $\{2, 3\}$ and $\{4\}$. We select $J=\{4\}$, hence $K=\{2, 3\}$. Local switching w.r.t. $\{i,J\}$ transforms the signed graph 49 into a signed graph which is switched to the signed graph 74.
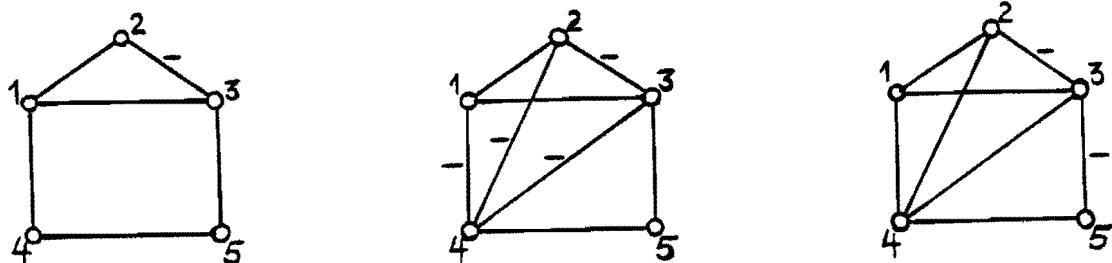
8. **CLUSTERS**

    Local switching is applied to any vertex i and any union J of its rims. The operation is symmetric, but not transitive on the set Ω_n of the switching classes of signed graphs of order n, whose intersection matrix has a given signature and determinant. Thus local switching partitions Ω_n into mutually connected switching classes, which we call <u>clusters</u>. This is illustrated for $n=4$ by two examples, each led by a Coxeter graph:

    A4: from 8 via 9 to 16.   D4: from 5 via 13 to 12
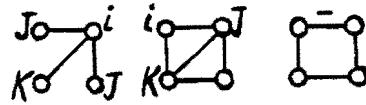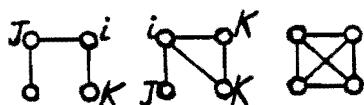
9. <u>**A_k, D_k, E_k**</u>

    The symbols A_k, D_k, E_K are abbreviations for the Coxeter-Dynkin diagrams of the corresponding types. Their intersection matrices are positive definite (i.e. have signature (k,o)) and have determinants as follows:

	A_k	D_k	E_6	E_7	E_8
det:	k+1	4	3	2	1

    The intersection matrices of the extended Coxeter-Dynkin diagrams $\widetilde{A}_k$, $\widetilde{D}_k$, $\widetilde{E}_k$ are positive semi-definite with standard signature (and have det = 0). The graphs K_k, K_k minus edge, K_k minus wedge, where K_k is the complete graph on k vertices and wedge = $\wedge$, also represent the clusters of A_k, D_k, E_k respectively. We denote these clusters by cl(A_k), etc.

10. **ROOT LATTICES AND ROOT BASES.**

    To each signed graph (Γ, f) we attach a <u>root lattice</u> $L(\Gamma, f)$. It is defined by the intersection matrix $2I+E$ considered as the Gram matrix of some <u>root basis</u> B. Then det $(2I+E)$ is the discriminant of $L(\Gamma, f)$. The type of the lattice (definite, semidefinite or indefinite (hyperbolic)) is determined by the signature sig $(2I+E)$.

    Switching means changing signs of some vectors in the basis B. Local switching w.r.t. (i, J) transforms B by $e'_j = e_j - e_i$ for $j \in J$, preserving the $(2; 0, 1, -1)$ shape of the Gram matrix. Each cluster contains equivalent bases of the lattice, transformed into each other by chains of local switchings.

    The cluster containing A_k, D_k or E_k consists of the Coxeter-Dynkin graphs of all root bases of the lattice. In particular, it contains the Carter diagrams [Car] of the lattice.

C.   ANNOUNCEMENT OF THE TABLES

Table 1. SWITCHING CLASSES OF SIGNED GRAPHS.

Identification, upper half of the adjacency matrix eigenvalues.
Cospectral graphs.

Table 2. PARTITION BY DET AND SIG, COXETER GRAPHS.

The connected Coxeter graphs: identification, adjacency matrix det $=\det(2I+E)$; eigenvalues.
For given det and signature, the graphs from Table 1 and the Coxeter signed graphs.

Table 3. PARTITION BY LOCAL SWITCHING.

For given det and sig, the signed graphs of the clusters, and the connected pairs of signed graphs in the clusters.

Table 4. CLUSTERS FOR A_k, D_k, E_k, k=7,8

Identification, upper half of the adjacency matrix.

For the actual Tables we refer to the appendices in F.

D. COMPILATION ON CLUSTERS

We summarise the information from Tables 1-3 in one table, and from Table 4 in another.

For $n=$ 3, 4, 5, 6 we arrange the data from the Tables according to the clusters. Each column represents one cluster, and contains the following data from the Tables:

sig = signature of $2I+E$; in code: pos, neg; if blanc then read first symbol to the left;

det = determinant of $2I+E$;

no = the number of switching classes of signed graphs in the cluster;

cox = the identification number of the Coxeter signed graph in the cluster (if any).

ORDER 3.

sig	3,0	2,0
det	4	0
no	2	1
cox	A_3	$\widetilde{A_2}$

3,0 ≡ +++
2,0 ≡ ++0

ORDER 4.

sig	4,0		3,0	3,1		
det	5	4	0	-3	-12	-27
no	3	3	2	2	1	1
cox	8	5	11	10	15	18

4,0 ≡ ++++
3,0 ≡ +++0
3,1 ≡ +++-

ORDER 5.

sig	5,0		4,0		3,0	3,1	3,2	4,1				
det	6	4	0	0	0	0	2	-4	-6	-10	-12	-16
no	6	11	6	5	1	1	1	13	4	3	4	4
cox	16	13	10	31	-	-	-	26	29	25	20	45

sig   4,1

-det	16	18	24	28	36	40	48	54	64	72	108	162
no	3	2	2	2	3	1	1	2	1	1	1	1
cox	49	37	44	34	68	64	54	58	85	79	93	100

ORDER 6

sig   6,0

sig	6,0			5,0		4,0		3,0	5,1	
det	7	4	3	0	0	0	0	0	-4	-5
no	11	29	32	39	13	8	5	1	77	102
cox	43	37	38	32	94	-	-	-	26	89

sig   5,1

-det	8	9	9	12	12	13	16	16	17	20
no	35	9	4	24	13	42	13	44	8	42
cox	90	93	181	77	82	79	23	58	84	174

sig   5,1

-det	20	21	21	24	25	28	29	32	32	32
no	12	15	25	13	4	8	17	20	6	2
cox	185	61	176	145	70	54	163	158	167	315

sig   5,1

-det	33	36	36	36	36	37	44	45	45	45
no	4	10	22	4	2	14	4	4	3	18
cox	139	49	130	172	291	134	142	104	154	320

sig   5,1

-det	45	48	48	48	52	53	53	60	60	60
no	9	4	4	11	10	4	5	3	2	9
cox	327	124	283	307	277	129	300	111	205	305

sig	5,1									
-det	64	64	64	64	68	69	69	72	77	77
no	4	5	3	2	2	12	4	6	2	1
cox	101	235	242	524	269	253	490	260	227	462

sig	5,1									
-det	80	80	81	81	84	84	85	93	93	96
no	3	3	4	2	2	8	2	1	4	5
cox	515	517	273	380	234	502	199	372	450	434

sig	5,1									
-det	96	96	100	100	105	108	108	112	116	117
no	3	3	2	1	3	4	2	1	2	2
cox	471	480	189	408	220	193	721	355	416	428

sig	5,1									
-det	117	125	128	128	132	132	132	141	141	144
no	2	1	2	1	2	1	4	2	4	1
cox	743	626	362	692	400	617	751	344	713	331

sig	5,1									
-det	144	144	148	165	180	180	189	189	189	192
no	1	3	1	1	1	1	2	1	2	1
cox	656	668	594	573	540	938	642	796	958	900

sig	5,1									
-det	204	208	213	216	240	256	276	285	297	324
no	2	1	1	3	1	1	1	1	2	1
cox	554	860	847	915	780	1110	1097	1049	807	973

sig	5,1					4,2				
det	-324	-384	-405	-540	-729	135	84	64	60	51
no	1	1	1	1	1	1	1	1	1	1
cox	1005	1192	1155	1226	1242	-	-	-	-	-

sig	4,2									
det	44	39	36	36	35	32	28	28	27	27
no	1	1	2	1	1	2	1	1	2	1
cox	-	-	-	-	-	-	-	-	-	-

sig	4,2									
det	27	24	20	20	19	19	16	16	15	12
no	1	1	1	1	1	1	3	1	1	3
cox	-	-	-	-	-	-	-	-	-	-

sig	4,2										
det	12	12	12	11	11	8	7	4	4	3	3
no	2	5	1	5	1	4	2	8	1	12	16
cox	-	-	-	-	-	-	-	-	-	-	-

sig	4,1										3,3
det	0	0	0	0	0	0	0	0	0	0	-1
no	4	40	2	4	1	3	1	5	1	2	1
cox	-	-	-	-	-	-	-	-	-	-	-

The sizes of the clusters for A_k, D_k, E_k for $k \leq 8$ are as follows (cf. Table 4):

k :	3	4	5	6	7	8
$\mid cl (A_k) \mid$:	2	3	4	11	23	47
$\mid cl (D_k) \mid$:	2	3	11	29	70	185
$\mid cl (E_k) \mid$:	-	-	-	32	233	1242

E.   REFERENCES.

Finite graphs are symmetric relations on finite sets. They are described by (0,1)-matrices. Equivalently, one can use (+,-)-matrices, and interpret the graph as a signed complete graph. This leads to switching, switching classes of graphs, equiangular lines and two-graphs [BMS]. A further step is to consider arbitrary signed graphs and their switching classes [Ca We]. Important examples are provided by the root systems, for instance those on sets of lines at $90°$ and $60°$. Root lattices are integral lattices generated by roots (vectors r of norm $(r,r)=2$). The reflections in hyperplanes orthogonal to roots provide automorphisms of the integral lattices. These have been studied extensively by many authors [Cox, CoSl, Vin, Nik]. They found application in various branches of mathematics: graphs and two-graphs in Coxeter groups and generalizations [Bou, SeTs], signed graphs in cohomology [CaWe], Euclidean root systems in combinatorics [CGSS, BCN], vanishing lattices in singularity theory [Eb, Ja, Lo], intersection matrices in Lie algebras [Slo]. The various bases of such lattices, which are related to the conjugacy classes of the Weyl group [Car, Voi], are expressed by signed graphs. The transition of bases is gouverned by the local switching of the signed graphs. This operation, which goes back to Cohen [Co], was developed by Gabrielov [Gab], Ebeling [Ebe], Humphries [Hum] and others; it will also occur in [RC Si Vi]. Local switching may be phrased in terms of reflections, and in terms of signed graphs. The algorithm explained in B.7 above is more general, and was developed especially for the purpose of the present tables.

For the conclusions from the results of the tables we refer to D. above, and to the compagnion article [Ca Se Ts].

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F. APPENDICES

Table 1

SWITCHING CLASSES OF SIGNED GRAPHS

ORDER = 4

1	000	00	0	0.000000	0.000000	0.000000	0.000000
2	+00	00	0	-1.000000	0.000000	0.000000	1.000000
3	++0	00	0	-1.414214	-0.000000	0.000000	1.414214
4	+00	00	+	-1.000000	-1.000000	1.000000	1.000000
5	+++	00	0	-1.732051	-0.000000	0.000000	1.732051
6	++0	+0	0	-1.000000	-1.000000	0.000000	2.000000
7	++0	-0	0	-2.000000	0.000000	1.000000	1.000000
8	++0	0+	0	-1.618034	-0.618034	0.618034	1.618034
9	+++	+0	0	-1.481194	-1.000000	0.311108	2.170086
10	+++	00	-	-2.170086	-0.311108	1.000000	1.481194
11	++0	0+	+	-2.000000	0.000000	0.000000	2.000000
12	++0	0+	-	-1.414214	-1.414214	1.414214	1.414214
13	+++	++	0	-1.561553	-1.000000	-0.000000	2.561553
14	+++	+0	-	-2.000000	-1.000000	1.000000	2.000000
15	++0	-+	+	-2.561553	0.000000	1.000000	1.561553
16	+++	++	+	-1.000000	-1.000000	-1.000000	3.000000
17	+++	++	-	-2.236068	-1.000000	1.000000	2.236068
18	++-	-+	+	-3.000000	1.000000	1.000000	1.000000

ORDER = 5

1	0000	000	00	0	0.000000	0.000000	0.000000	0.000000	0.000000
2	+000	000	00	0	-1.000000	0.000000	0.000000	0.000000	1.000000
3	++00	000	00	0	-1.414214	-0.000000	0.000000	0.000000	1.414214
4	+000	000	+0	0	-1.000000	-1.000000	0.000000	1.000000	1.000000
5	+++0	000	00	0	-1.732051	-0.000000	0.000000	0.000000	1.732051
6	++00	+00	00	0	-1.000000	-1.000000	0.000000	0.000000	2.000000
7	++00	-00	00	0	-2.000000	0.000000	0.000000	1.000000	1.000000
8	++00	0+0	00	0	-1.618034	-0.618034	0.000000	0.618034	1.618034
9	++00	000	00	+	-1.414214	-1.000000	-0.000000	1.000000	1.414214
10	++++	000	00	0	-2.000000	-0.000000	0.000000	0.000000	2.000000
11	+++0	+00	00	0	-1.481194	-1.000000	0.000000	0.311108	2.170086
12	+++0	000	-0	0	-2.170086	-0.311108	0.000000	1.000000	1.481194
13	+++0	00+	00	0	-1.847759	-0.765367	0.000000	0.765367	1.847759
14	++00	0+0	+0	0	-2.000000	0.000000	0.000000	0.000000	2.000000
15	++00	0+0	-0	0	-1.414214	-1.414214	0.000000	1.414214	1.414214
16	++00	0+0	0+	0	-1.732051	-1.000000	0.000000	1.000000	1.732051
17	++00	+00	00	+	-1.000000	-1.000000	-1.000000	1.000000	2.000000
18	++00	-00	00	+	-2.000000	-1.000000	1.000000	1.000000	1.000000
19	++++	+00	00	0	-1.813607	-1.000000	-0.000000	0.470683	2.342923
20	++++	000	00	-	-2.342923	-0.470683	0.000000	1.000000	1.813607
21	+++0	++0	00	0	-1.561553	-1.000000	-0.000000	0.000000	2.561553
22	+++0	+00	-0	0	-2.000000	-1.000000	0.000000	1.000000	2.000000

23	++00	-+0	+0	0	-2.561553	0.000000	0.000000	1.000000	1.561553
24	+++0	+0+	00	0	-1.618034	-1.302776	-0.000000	0.618034	2.302776
25	+++0	000	-+	0	-2.302776	-0.618034	0.000000	1.302776	1.618034
26	+++0	00+	0+	0	-2.135779	-0.662153	0.000000	0.662153	2.135779
27	+++0	00+	00	-	-1.732051	-1.414214	-0.000000	1.414214	1.732051
28	+++0	+00	00	+	-1.675131	-1.000000	-0.539189	1.000000	2.214320
29	+++0	00+	-0	0	-2.214320	-1.000000	0.539189	1.000000	1.675131
30	++00	0+0	0+	+	-1.618034	-1.618034	0.618034	0.618034	2.000000
31	++00	0+0	0+	-	-2.000000	-0.618034	-0.618034	1.618034	1.618034
32	++++	++0	00	0	-1.749118	-1.271330	-0.000000	0.334904	2.685544
33	++++	+00	0-	0	-2.175328	-1.126033	-0.000000	1.126033	2.175328
34	+++-	00+	0+	0	-2.685544	-0.334904	0.000000	1.271330	1.749118
35	++++	+00	00	+	-1.561553	-1.000000	-1.000000	1.000000	2.561553
36	++++	+00	00	-	-2.236068	-1.000000	0.000000	1.000000	2.236068
37	++++	00-	-0	0	-2.561553	-1.000000	1.000000	1.000000	1.561553
38	+++0	++0	+0	0	-1.000000	-1.000000	-1.000000	0.000000	3.000000
39	+++0	++0	-0	0	-2.236068	-1.000000	0.000000	1.000000	2.236068
40	++0-	-0+	0+	0	-3.000000	0.000000	1.000000	1.000000	1.000000
41	+++0	++0	0+	0	-1.775713	-1.000000	-0.589216	0.723742	2.641186
42	+++0	+0+	0-	0	-2.000000	-1.481194	0.311108	1.000000	2.170086
43	+++0	+00	-0	+	-2.170086	-1.000000	-0.311108	1.481194	2.000000
44	+++0	000	-+	+	-2.641186	-0.723742	0.589216	1.000000	1.775713
45	+++0	00+	0+	+	-2.449490	0.000000	0.000000	0.000000	2.449490
46	+++0	00+	0+	-	-2.000000	-1.414214	0.000000	1.414214	2.000000
47	+++0	+0+	00	+	-2.000000	-1.170086	-0.000000	0.688892	2.481194
48	+++0	+0+	00	-	-1.675131	-1.414214	-0.539189	1.414214	2.214320
49	+++0	00+	-+	0	-2.481194	-0.688892	0.000000	1.170086	2.000000
50	++00	0+0	-+	+	-2.214320	-1.414214	0.539189	1.414214	1.675131
51	++++	+++	00	0	-2.000000	-1.000000	-0.000000	0.000000	3.000000
52	++++	++-	00	0	-2.000000	-1.561553	-0.000000	1.000000	2.561553
53	++++	+00	--	0	-2.561553	-1.000000	0.000000	1.561553	2.000000
54	+++-	00+	0+	+	-3.000000	-0.000000	0.000000	1.000000	2.000000
55	++++	++0	+0	0	-1.514137	-1.000000	-1.000000	0.428007	3.086130
56	++++	++0	-0	0	-2.310779	-1.354488	0.266370	1.000000	2.398898
57	+++0	++0	-+	0	-2.398898	-1.000000	-0.266370	1.354488	2.310779
58	+++-	000	-+	+	-3.086130	-0.428007	1.000000	1.000000	1.514137
59	++++	++0	0+	0	-1.618034	-1.472834	-0.462598	0.618034	2.935432
60	++++	++0	00	-	-2.197420	-1.158049	-0.285420	1.071856	2.569033
61	++++	+00	0-	+	-2.000000	-1.302776	-0.618034	1.618034	2.302776
62	++++	+0-	-0	0	-2.302776	-1.618034	0.618034	1.302776	2.000000
63	+++0	+00	-+	+	-2.569033	-1.071856	0.285420	1.158049	2.197420
64	+++0	0-+	-0	+	-2.935432	-0.618034	0.462598	1.472834	1.618034
65	+++0	++0	0+	+	-2.177410	-1.000000	0.000000	0.321637	2.855773
66	+++0	++0	0+	-	-1.561553	-1.414214	-1.000000	1.414214	2.561553
67	+++0	+0+	0-	+	-2.236068	-1.414214	-0.000000	1.414214	2.236068
68	+++0	00+	-+	+	-2.855773	-0.321637	0.000000	1.000000	2.177410
69	+++0	00-	-+	+	-2.561553	-1.414214	1.000000	1.414214	1.561553
70	++++	+++	+0	0	-1.681331	-1.000000	-1.000000	0.357926	3.323404
71	++++	+++	00	-	-2.489289	-1.000000	-0.289169	1.000000	2.778457
72	++++	++0	+0	-	-2.000000	-1.000000	-1.000000	1.000000	3.000000
73	++++	++0	-+	0	-2.270922	-1.465163	-0.180152	1.252678	2.663560
74	++++	++0	-0	-	-2.663560	-1.252678	0.180152	1.465163	2.270922
75	++++	++-	-0	0	-2.236068	-2.000000	1.000000	1.000000	2.236068
76	++++	+00	--	+	-2.236068	-1.000000	-1.000000	2.000000	2.236068
77	+++0	++0	-+	+	-2.778457	-1.000000	0.289169	1.000000	2.489289
78	+++-	+00	-+	+	-3.000000	-1.000000	1.000000	1.000000	2.000000

```
 79   +++- 00+ -+ +   -3.323404 -0.357926  1.000000  1.000000  1.681331
 80   ++++ ++0 0+ +   -2.000000 -1.236068 -0.000000  0.000000  3.236068
 81   ++++ ++0 0+ -   -2.000000 -1.414214 -0.732051  1.414214  2.732051
 82   ++++ +0- -0 +   -2.000000 -2.000000  0.000000  2.000000  2.000000
 83   +++0 ++- 0+ +   -2.613126 -1.082392 -0.000000  1.082392  2.613126
 84   +++0 +0- -+ +   -2.732051 -1.414214  0.732051  1.414214  2.000000
 85   +++0 0-+ -+ +   -3.236068 -0.000000  0.000000  1.236068  2.000000
 86   ++++ +++ ++ 0   -1.645751 -1.000000 -1.000000 -0.000000  3.645751
 87   ++++ +++ +0 -   -2.249141 -1.000000 -1.000000  1.146365  3.102775
 88   ++++ +++ 0- -   -2.917286 -1.000000 -0.000000  1.319551  2.597735
 89   ++++ ++0 -+ +   -2.597735 -1.319551  0.000000  1.000000  2.917286
 90   ++++ ++0 -+ -   -2.342923 -1.561553 -0.470683  1.813607  2.561553
 91   ++++ ++- -+ 0   -2.561553 -1.813607  0.470683  1.561553  2.342923
 92   +++0 ++- -+ +   -3.102775 -1.146365  1.000000  1.000000  2.249141
 93   +++0 --+ -+ +   -3.645751  0.000000  1.000000  1.000000  1.645751
 94   ++++ +++ ++ +   -1.000000 -1.000000 -1.000000 -1.000000  4.000000
 95   ++++ +++ ++ -   -2.372281 -1.000000 -1.000000  1.000000  3.372281
 96   ++++ +++ +- -   -2.561553 -1.000000 -1.000000  1.561553  3.000000
 97   ++++ +++ -- -   -3.372281 -1.000000  1.000000  1.000000  2.372281
 98   ++++ ++- -+ +   -3.000000 -1.561553  1.000000  1.000000  2.561553
 99   ++++ ++- -+ -   -2.236068 -2.236068 -0.000000  2.236068  2.236068
100   +++- --+ -+ +   -4.000000  1.000000  1.000000  1.000000  1.000000
```

ORDER = 6

```
  1   00000 0000 000 00 0    0.000000  0.000000  0.000000  0.000000  0.000000  0.000000
  2   +0000 0000 000 00 0   -1.000000  0.000000  0.000000  0.000000  0.000000  1.000000
  3   ++000 0000 000 00 0   -1.414214 -0.000000  0.000000  0.000000  0.000000  1.414214
  4   +0000 0000 +00 00 0   -1.000000 -1.000000  0.000000  0.000000  1.000000  1.000000
  5   +++00 0000 000 00 0   -1.732051 -0.000000  0.000000  0.000000  0.000000  1.732051
  6   ++000 +000 000 00 0   -1.000000 -1.000000  0.000000  0.000000  0.000000  2.000000
  7   ++000 -000 000 00 0   -2.000000  0.000000  0.000000  0.000000  1.000000  1.000000
  8   ++000 0+00 000 00 0   -1.618034 -0.618034  0.000000  0.000000  0.618034  1.618034
  9   ++000 0000 000 +0 0   -1.414214 -1.000000 -0.000000  0.000000  1.000000  1.414214
 10   +0000 0000 +00 00 +   -1.000000 -1.000000 -1.000000  1.000000  1.000000  1.000000
 11   ++++0 0000 000 00 0   -2.000000 -0.000000  0.000000  0.000000  0.000000  2.000000
 12   +++00 +000 000 00 0   -1.481194 -1.000000  0.000000  0.000000  0.311108  2.170086
 13   +++00 0000 -00 00 0   -2.170086 -0.311108  0.000000  0.000000  1.000000  1.481194
 14   +++00 00+0 000 00 0   -1.847759 -0.765367  0.000000  0.000000  0.765367  1.847759
 15   +++00 0000 000 00 +   -1.732051 -1.000000 -0.000000  0.000000  1.000000  1.732051
 16   ++000 0+00 +00 00 0   -2.000000  0.000000  0.000000  0.000000  0.000000  2.000000
 17   ++000 0+00 -00 00 0   -1.414214 -1.414214  0.000000  0.000000  1.414214  1.414214
 18   ++000 0+00 0+0 00 0   -1.732051 -1.000000  0.000000  0.000000  1.000000  1.732051
 19   ++000 +000 000 +0 0   -1.000000 -1.000000 -1.000000  0.000000  1.000000  2.000000
 20   ++000 -000 000 +0 0   -2.000000 -1.000000  0.000000  1.000000  1.000000  1.000000
 21   ++000 0000 000 ++ 0   -1.414214 -1.414214 -0.000000 -0.000000  1.414214  1.414214
 22   ++000 0+00 000 00 +   -1.618034 -1.000000 -0.618034  0.618034  1.000000  1.618034
 23   +++++ 0000 000 00 0   -2.236068  0.000000  0.000000  0.000000  0.000000  2.236068
 24   ++++0 +000 000 00 0   -1.813607 -1.000000 -0.000000  0.000000  0.470683  2.342923
 25   ++++0 0000 000 -0 0   -2.342923 -0.470683  0.000000  0.000000  1.000000  1.813607
 26   ++++0 000+ 000 00 0   -2.074313 -0.835000  0.000000  0.000000  0.835000  2.074313
 27   +++00 ++00 000 00 0   -1.561553 -1.000000 -0.000000  0.000000  0.000000  2.561553
 28   +++00 +000 -00 00 0   -2.000000 -1.000000  0.000000  0.000000  1.000000  2.000000
 29   ++000 -+00 +00 00 0   -2.561553  0.000000  0.000000  0.000000  1.000000  1.561553
```

30	+++00	+0+0	000	00	0	-1.618034	-1.302776	-0.000000	0.000000	0.618034	2.302776
31	+++00	0000	-+0	00	0	-2.302776	-0.618034	0.000000	0.000000	1.302776	1.618034
32	+++00	00++	000	00	0	-2.000000	-1.000000	-0.000000	0.000000	1.000000	2.000000
33	+++00	00+0	0+0	00	0	-2.135779	-0.662153	0.000000	0.000000	0.662153	2.135779
34	+++00	00+0	000	-0	0	-1.732051	-1.414214	-0.000000	0.000000	1.414214	1.732051
35	+++00	+000	000	+0	0	-1.675131	-1.000000	-0.539189	0.000000	1.000000	2.214320
36	+++00	00+0	-00	00	0	-2.214320	-1.000000	0.000000	0.539189	1.000000	1.675131
37	+++00	00+0	000	00	+	-1.902113	-1.175571	-0.000000	0.000000	1.175571	1.902113
38	+++00	00+0	00+	00	0	-1.931852	-1.000000	-0.517638	0.517638	1.000000	1.931852
39	+++00	+000	000	00	+	-1.481194	-1.000000	-1.000000	0.311108	1.000000	2.170086
40	+++00	0000	-00	00	+	-2.170086	-1.000000	-0.311108	1.000000	1.000000	1.481194
41	++000	0+00	0+0	+0	0	-1.618034	-1.618034	0.000000	0.618034	0.618034	2.000000
42	++000	0+00	0+0	-0	0	-2.000000	-0.618034	-0.618034	0.000000	1.618034	1.618034
43	++000	0+00	0+0	0+	0	-1.801938	-1.246980	-0.445042	0.445042	1.246980	1.801938
44	++000	0+00	+00	00	+	-2.000000	-1.000000	0.000000	0.000000	1.000000	2.000000
45	++000	0+00	-00	00	+	-1.414214	-1.414214	-1.000000	1.000000	1.414214	1.414214
46	++000	+000	000	++	0	-1.414214	-1.000000	-1.000000	-0.000000	1.414214	2.000000
47	++000	0000	000	++	-	-2.000000	-1.414214	-0.000000	1.000000	1.000000	1.414214
48	+++++	+000	000	00	0	-2.086130	-1.000000	0.000000	0.000000	0.571993	2.514137
49	+++++	0000	000	00	-	-2.514137	-0.571993	0.000000	0.000000	1.000000	2.086130
50	++++0	++00	000	00	0	-1.749118	-1.271330	-0.000000	0.000000	0.334904	2.685544
51	++++0	+000	0-0	00	0	-2.175328	-1.126033	-0.000000	0.000000	1.126033	2.175328
52	+++0-	000+	00+	00	0	-2.685544	-0.334904	-0.000000	0.000000	1.271330	1.749118
53	++++0	+00+	000	00	0	-1.872276	-1.370326	-0.000000	0.000000	0.796815	2.445787
54	++++0	0000	000	-+	0	-2.445787	-0.796815	0.000000	0.000000	1.370326	1.872276
55	++++0	+000	000	+0	0	-1.561553	-1.000000	-1.000000	0.000000	1.000000	2.561553
56	++++0	+000	000	-0	0	-2.236068	-1.000000	0.000000	0.000000	1.000000	2.236068
57	++++0	00-0	-00	00	0	-2.561553	-1.000000	0.000000	1.000000	1.000000	1.561553
58	++++0	000+	00+	00	0	-2.288246	-0.874032	0.000000	0.000000	0.874032	2.288246
59	++++0	000+	000	00	-	-2.000000	-1.414214	-0.000000	0.000000	1.414214	2.000000
60	++++0	+000	000	0+	0	-1.920221	-1.000000	-0.751024	0.291367	1.000000	2.379878
61	++++0	000+	000	-0	0	-2.379878	-1.000000	-0.291367	0.751024	1.000000	1.920221
62	+++00	++00	+00	00	0	-1.000000	-1.000000	-1.000000	0.000000	0.000000	3.000000
63	+++00	++00	-00	00	0	-2.236068	-1.000000	0.000000	0.000000	1.000000	2.236068
64	++00-	-00+	00+	00	0	-3.000000	0.000000	0.000000	1.000000	1.000000	1.000000
65	+++00	++00	0+0	00	0	-1.775713	-1.000000	-0.589216	0.000000	0.723742	2.641186
66	+++00	+0+0	0-0	00	0	-2.000000	-1.481194	0.000000	0.311108	1.000000	2.170086
67	+++00	+000	-00	+0	0	-2.170086	-1.000000	-0.311108	0.000000	1.481194	2.000000
68	+++00	0000	-+0	+0	0	-2.641186	-0.723742	0.000000	0.589216	1.000000	1.775713
69	+++00	+0+0	00+	00	0	-1.618034	-1.618034	-0.414214	0.618034	0.618034	2.414214
70	+++00	0000	-+0	0+	0	-2.414214	-0.618034	-0.618034	0.414214	1.618034	1.618034
71	+++00	00+0	0+0	+0	0	-2.449490	0.000000	0.000000	0.000000	0.000000	2.449490
72	+++00	00+0	0+0	-0	0	-2.000000	-1.414214	0.000000	0.000000	1.414214	2.000000
73	+++00	+0+0	000	+0	0	-2.000000	-1.170086	-0.000000	0.000000	0.688892	2.481194
74	+++00	+0+0	000	-0	0	-1.675131	-1.414214	-0.539189	0.000000	1.414214	2.214320
75	+++00	00+0	-+0	00	0	-2.481194	-0.688892	0.000000	0.000000	1.170086	2.000000
76	++000	0+00	-+0	+0	0	-2.214320	-1.414214	0.000000	0.539189	1.414214	1.675131
77	+++00	00+0	0+0	00	+	-2.236068	-1.000000	0.000000	0.000000	1.000000	2.236068
78	+++00	00+0	000	-0	+	-1.732051	-1.732051	-0.000000	-0.000000	1.732051	1.732051
79	+++00	00++	0+0	00	0	-2.246980	-0.801938	-0.554958	0.554958	0.801938	2.246980
80	+++00	00++	000	0-	0	-1.879385	-1.532089	-0.347296	0.347296	1.532089	1.879385
81	+++00	+000	000	++	0	-1.891220	-1.000000	-0.704624	-0.000000	1.317431	2.278414
82	+++00	00++	000	00	-	-2.278414	-1.317431	-0.000000	0.704624	1.000000	1.891220
83	+++00	+0+0	000	0+	0	-1.739677	-1.373790	-0.594523	0.274205	1.099585	2.334201
84	+++00	00+0	-0+	00	0	-2.334201	-1.099585	-0.274205	0.594523	1.373790	1.739677
85	+++00	++00	000	00	+	-1.561553	-1.000000	-1.000000	-0.000000	1.000000	2.561553

86	+++00	+000	-00	00	+	-2.000000	-1.000000	-1.000000	1.000000	1.000000	2.000000
87	++000	-+00	+00	00	+	-2.561553	-1.000000	0.000000	1.000000	1.000000	1.561553
88	+++00	00+0	00+	00	+	-1.860806	-1.618034	-0.254102	0.618034	1.000000	2.114908
89	+++00	00+0	00+	00	-	-2.114908	-1.000000	-0.618034	0.254102	1.618034	1.860806
90	+++00	00+0	0+0	0+	0	-2.175328	-1.126033	0.000000	0.000000	1.126033	2.175328
91	+++00	00+0	00+	0-	0	-1.847759	-1.414214	-0.765367	0.765367	1.414214	1.847759
92	+++00	+000	000	+0	+	-1.774623	-1.000000	-1.000000	0.185885	1.360409	2.228328
93	+++00	00+0	-00	00	+	-2.228328	-1.360409	-0.185885	1.000000	1.000000	1.774623
94	++000	0+00	0+0	0+	+	-2.000000	-1.000000	-1.000000	1.000000	1.000000	2.000000
95	++000	0+00	0+0	0+	-	-1.732051	-1.732051	-0.000000	0.000000	1.732051	1.732051
96	++000	+000	000	++	+	-1.000000	-1.000000	-1.000000	-1.000000	2.000000	2.000000
97	++000	+000	000	++	-	-2.000000	-1.000000	-1.000000	1.000000	1.000000	2.000000
98	++000	-000	000	++	-	-2.000000	-2.000000	1.000000	1.000000	1.000000	1.000000
99	+++++	++00	000	00	0	-2.000000	-1.342923	-0.000000	0.000000	0.529317	2.813607
100	+++++	+000	00-	00	0	-2.358294	-1.199353	-0.000000	-0.000000	1.199353	2.358294
101	++++-	000+	00+	00	0	-2.813607	-0.529317	0.000000	0.000000	1.342923	2.000000
102	+++++	+000	000	+0	0	-1.903212	-1.000000	-1.000000	0.193937	1.000000	2.709275
103	+++++	+000	000	00	-	-2.414214	-1.000000	-0.414214	0.414214	1.000000	2.414214
104	+++++	0000	00-	-0	0	-2.709275	-1.000000	-0.193937	1.000000	1.000000	1.903212
105	++++0	+++0	000	00	0	-2.000000	-1.000000	-0.000000	0.000000	0.000000	3.000000
106	++++0	++-0	000	00	0	-2.000000	-1.561553	-0.000000	0.000000	1.000000	2.561553
107	++++0	+000	--0	00	0	-2.561553	-1.000000	0.000000	0.000000	1.561553	2.000000
108	+++0-	000+	00+	0+	0	-3.000000	0.000000	0.000000	0.000000	1.000000	2.000000
109	++++0	++0+	000	00	0	-1.791288	-1.618034	-0.000000	0.000000	0.618034	2.791288
110	++++0	+000	0-+	00	0	-2.302776	-1.302776	-0.000000	0.000000	1.302776	2.302776
111	+++0-	000+	00+	00	+	-2.791288	-0.618034	-0.000000	0.000000	1.618034	1.791288
112	++++0	++00	+00	00	0	-1.514137	-1.000000	-1.000000	0.000000	0.428007	3.086130
113	++++0	++00	-00	00	0	-2.310779	-1.354488	0.000000	0.266370	1.000000	2.398898
114	++00	++00	-+0	00	0	-2.398898	-1.000000	-0.266370	0.000000	1.354488	2.310779
115	+++0-	0000	-0+	0+	0	-3.086130	-0.428007	-0.000000	1.000000	1.000000	1.514137
116	++++0	++00	0+0	00	0	-1.618034	-1.472834	-0.462598	0.000000	0.618034	2.935432
117	++++0	++00	000	-0	0	-2.197420	-1.158049	-0.285420	0.000000	1.071856	2.569033
118	++++0	+000	0-0	+0	0	-2.000000	-1.302776	-0.618034	0.000000	1.618034	2.302776
119	++++0	+0-0	-00	00	0	-2.302776	-1.618034	0.000000	0.618034	1.302776	2.000000
120	++00	+000	-+0	+0	0	-2.569033	-1.071856	0.000000	0.285420	1.158049	2.197420
121	++00	0-+0	-00	+0	0	-2.935432	-0.618034	0.000000	0.462598	1.472834	1.618034
122	++++0	+00+	00+	00	0	-2.000000	-1.000000	-0.732051	0.000000	1.000000	2.732051
123	++++0	+00+	00-	00	0	-2.000000	-1.813607	0.000000	0.470683	1.000000	2.342923
124	++++0	0000	000	-+	+	-2.732051	-1.000000	0.000000	0.732051	1.000000	2.000000
125	++00	+000	-00	++	0	-2.342923	-1.000000	-0.470683	-0.000000	1.813607	2.000000
126	++++0	++00	00+	00	0	-1.894203	-1.329265	-0.609280	0.306358	0.772675	2.753715
127	++++0	+00+	0-0	00	0	-2.177602	-1.526428	-0.234831	0.483296	1.149476	2.306090
128	++++0	+000	0-0	00	+	-2.306090	-1.149476	-0.483296	0.234831	1.526428	2.177602
129	++00	0000	-++	+0	0	-2.753715	-0.772675	-0.306358	0.609280	1.329265	1.894203
130	++++0	000+	00+	0+	0	-2.557612	-0.677214	0.000000	0.000000	0.677214	2.557612
131	++++0	000+	00+	00	-	-2.148961	-1.543362	0.000000	0.000000	1.543362	2.148961
132	++++0	+00+	000	0+	0	-2.141987	-1.305298	-0.384753	0.466856	0.766109	2.599072
133	++++0	+00+	000	00	-	-1.849428	-1.573405	-0.577100	0.172382	1.457608	2.369943
134	++++0	000+	000	-+	0	-2.599072	-0.766109	-0.466856	0.384753	1.305298	2.141987
135	+++0-	00+0	00+	00	+	-2.369943	-1.457608	-0.172382	0.577100	1.573405	1.849428
136	++++0	+00+	000	+0	0	-1.678280	-1.319775	-1.000000	0.139666	1.229738	2.628651
137	++++0	+00+	000	-0	0	-2.258351	-1.404494	-0.244130	0.547285	1.000000	2.359689
138	++++0	+000	000	-+	0	-2.359689	-1.000000	-0.547285	0.244130	1.404494	2.258351
139	++++0	00-+	-00	00	0	-2.628651	-1.229738	-0.139666	1.000000	1.319775	1.678280
140	++++0	++00	000	00	+	-1.851335	-1.350364	-0.559970	-0.000000	1.056082	2.705587
141	++++0	+000	0-0	0+	0	-2.221583	-1.239920	-0.726062	0.726062	1.239920	2.221583

142	+++0-	00+0	00+	0+	0	-2.705587	-1.056082	-0.000000	0.559970	1.350364	1.851335
143	++++0	+000	000	0+	+	-2.191169	-1.000000	-0.576713	0.000000	1.264377	2.503504
144	++++0	+000	000	0+	-	-1.813607	-1.414214	-1.000000	0.470683	1.414214	2.342923
145	++++0	000+	00+	-0	0	-2.503504	-1.264377	-0.000000	0.576713	1.000000	2.191169
146	++++0	000+	00-	-0	0	-2.342923	-1.414214	-0.470683	1.000000	1.414214	1.813607
147	+++00	++00	0+0	+0	0	-2.177410	-1.000000	0.000000	0.000000	0.321637	2.855773
148	+++00	++00	0+0	-0	0	-1.561553	-1.414214	-1.000000	0.000000	1.414214	2.561553
149	+++00	+0+0	0-0	+0	0	-2.236068	-1.414214	-0.000000	0.000000	1.414214	2.236068
150	+++00	00+0	-+0	+0	0	-2.855773	-0.321637	0.000000	0.000000	1.000000	2.177410
151	+++00	000-	-0+	0+	0	-2.561553	-1.414214	0.000000	1.000000	1.414214	1.561553
152	+++00	++00	0+0	0+	0	-1.903212	-1.000000	-1.000000	0.193937	1.000000	2.709275
153	+++00	+0+0	0-0	00	+	-2.170086	-1.481194	-0.311108	0.311108	1.481194	2.170086
154	+++00	0000	-+0	+0	+	-2.709275	-1.000000	-0.193937	1.000000	1.000000	1.903212
155	+++00	++00	+00	00	+	-1.000000	-1.000000	-1.000000	-1.000000	1.000000	3.000000
156	+++00	++00	-00	00	+	-2.236068	-1.000000	-1.000000	1.000000	1.000000	2.236068
157	++00-	-00+	00+	+0	0	-3.000000	-1.000000	1.000000	1.000000	1.000000	1.000000
158	+++00	00++	0++	00	0	-2.524338	-0.792287	-0.000000	0.000000	0.792287	2.524338
159	+++00	00++	0+0	-0	0	-2.135779	-1.414214	-0.662153	0.662153	1.414214	2.135779
160	+++00	00+0	0+0	-+	0	-2.000000	-1.732051	-0.000000	-0.000000	1.732051	2.000000
161	+++00	+0+0	000	++	0	-2.136393	-1.206076	-0.540632	0.261144	1.082474	2.539484
162	+++00	+0+0	000	-+	0	-1.871125	-1.445955	-0.738650	0.132625	1.688111	2.234993
163	+++00	00++	0+0	00	-	-2.539484	-1.082474	-0.261144	0.540632	1.206076	2.136393
164	+++00	00+0	000	-+	+	-2.234993	-1.688111	-0.132625	0.738650	1.445955	1.871125
165	+++00	+0+0	00+	+0	0	-2.000000	-1.561553	-0.000000	0.000000	1.000000	2.561553
166	+++00	+0+0	00+	00	-	-1.813607	-1.414214	-1.000000	0.470683	1.414214	2.342923
167	+++00	00+0	-+0	0+	0	-2.561553	-1.000000	-0.000000	-0.000000	1.561553	2.000000
168	+++00	0000	-+0	0+	+	-2.342923	-1.414214	-0.470683	1.000000	1.414214	1.813607
169	+++00	++00	0+0	00	+	-1.866198	-1.000000	-1.000000	-0.000000	1.210756	2.655442
170	+++00	+0+0	0-0	0+	0	-2.000000	-1.675131	-0.539189	1.000000	1.000000	2.214320
171	+++00	+000	-00	+0	+	-2.214320	-1.000000	-1.000000	0.539189	1.675131	2.000000
172	+++00	00+0	-0+	0+	0	-2.655442	-1.210756	-0.000000	1.000000	1.000000	1.866198
173	+++00	00+0	0+0	0+	+	-2.164248	-1.618034	-0.000000	0.618034	0.772866	2.391382
174	+++00	00+0	0+0	0+	-	-2.391382	-0.772866	-0.618034	0.000000	1.618034	2.164248
175	+++00	00+0	00+	0-	+	-2.000000	-1.618034	-0.618034	0.618034	1.618034	2.000000
176	+++00	00++	0+0	0+	0	-2.414214	-1.000000	-0.414214	0.414214	1.000000	2.414214
177	+++00	00++	0+0	0-	0	-2.170086	-1.481194	-0.311108	0.311108	1.481194	2.170086
178	++000	0+00	-+0	0+	+	-1.732051	-1.732051	-1.000000	1.000000	1.732051	1.732051
179	+++00	+000	000	++	+	-1.732051	-1.000000	-1.000000	-0.414214	1.732051	2.414214
180	+++00	+000	000	++	-	-2.236068	-1.000000	-1.000000	1.000000	1.000000	2.236068
181	+++00	00++	-00	00	-	-2.414214	-1.732051	0.414214	1.000000	1.000000	1.732051
182	+++00	+0+0	000	0+	+	-1.756598	-1.618034	-0.820249	0.618034	1.138564	2.438283
183	+++00	+0+0	000	0+	-	-2.000000	-1.302776	-0.618034	-0.000000	1.618034	2.302776
184	+++00	00+0	-0+	00	+	-2.302776	-1.618034	-0.000000	0.618034	1.302776	2.000000
185	++000	0+00	0+0	-+	+	-2.438283	-1.138564	-0.618034	0.820249	1.618034	1.756598
186	+++++	+++0	000	00	0	-2.123467	-1.322834	-0.000000	0.000000	0.344292	3.102009
187	+++++	++0-	000	00	0	-2.188459	-1.639568	-0.000000	0.000000	1.140850	2.687178
188	+++++	+000	0--	00	0	-2.687178	-1.140850	-0.000000	0.000000	1.639568	2.188459
189	++++-	000+	00+	0+	0	-3.102009	-0.344292	-0.000000	0.000000	1.322834	2.123467
190	+++++	++00	+00	00	0	-1.855773	-1.000000	-1.000000	-0.000000	0.678363	3.177410
191	+++++	++00	-00	00	0	-2.414214	-1.561553	0.000000	0.414214	1.000000	2.561553
192	++++-	+0+	00+	00	0	-2.561553	-1.000000	-0.414214	0.000000	1.561553	2.414214
193	++++-	0000	000	-+	+	-3.177410	-0.678363	0.000000	1.000000	1.000000	1.855773
194	+++++	++00	0+0	00	0	-1.824051	-1.618034	-0.548230	0.328543	0.618034	3.043738
195	+++++	++00	000	0-	0	-2.350839	-1.275490	-0.452306	0.239667	1.139799	2.699170
196	+++++	+000	00-	0+	0	-2.183629	-1.429567	-0.618034	0.128950	1.618034	2.484245
197	+++++	+00-	0-0	00	0	-2.484245	-1.618034	-0.128950	0.618034	1.429567	2.183629

198	++++-	+00+	000	0+	0	-2.699170	-1.139799	-0.239667	0.452306	1.275490	2.350839
199	++++-	000+	000	-+	0	-3.043738	-0.618034	-0.328543	0.548230	1.618034	1.824051
200	+++++	++00	000	00	+	-1.820822	-1.285865	-1.000000	0.000000	1.159274	2.947413
201	+++++	++00	000	00	-	-2.348894	-1.395932	-0.000000	0.000000	1.000000	2.744826
202	+++++	+000	000	+0	-	-2.245291	-1.131736	-1.000000	0.455947	1.335031	2.586049
203	+++++	+000	00-	-0	0	-2.586049	-1.335031	-0.455947	1.000000	1.131736	2.245291
204	++++-	+000	000	0+	+	-2.744826	-1.000000	-0.000000	0.000000	1.395932	2.348894
205	++++-	000+	00+	-0	0	-2.947413	-1.159274	-0.000000	1.000000	1.285865	1.820822
206	++++0	+++0	+00	00	0	-1.681331	-1.000000	-1.000000	0.000000	0.357926	3.323404
207	++++0	+++0	000	-0	0	-2.489289	-1.000000	-0.289169	0.000000	1.000000	2.778457
208	++++0	++00	+00	-0	0	-2.000000	-1.000000	-1.000000	0.000000	1.000000	3.000000
209	++++0	++00	-+0	00	0	-2.270922	-1.465163	-0.180152	0.000000	1.252678	2.663560
210	++++0	++00	-00	-0	0	-2.663560	-1.252678	0.000000	0.180152	1.465163	2.270922
211	++++0	++-0	-00	00	0	-2.236068	-2.000000	0.000000	1.000000	1.000000	2.236068
212	++++0	+000	--0	+0	0	-2.236068	-1.000000	-1.000000	0.000000	2.000000	2.236068
213	+++00	++00	-+0	+0	0	-2.778457	-1.000000	0.000000	0.289169	1.000000	2.489289
214	+++0-	+000	-0+	0+	0	-3.000000	-1.000000	0.000000	1.000000	1.000000	2.000000
215	+++0-	000+	-0+	0+	0	-3.323404	-0.357926	0.000000	1.000000	1.000000	1.681331
216	++++0	++0+	+00	00	0	-1.618034	-1.391382	-1.000000	0.227134	0.618034	3.164248
217	++++0	++0+	-00	00	0	-2.361469	-1.618034	-0.167449	0.618034	1.000000	2.528918
218	++++0	++00	-0+	00	0	-2.457837	-1.367676	-0.297484	0.297484	1.367676	2.457837
219	+++00	++00	-+0	0+	0	-2.528918	-1.000000	-0.618034	0.167449	1.618034	2.361469
220	+++0-	0000	-++	0+	0	-3.164248	-0.618034	-0.227134	1.000000	1.391382	1.618034
221	++++0	++0+	0+0	00	0	-1.856343	-1.477984	-0.724824	0.196690	0.848136	3.014326
222	++++0	++0+	000	0-	0	-2.210311	-1.582900	-0.303177	0.324054	1.080944	2.691391
223	++++0	++00	000	-+	0	-2.342068	-1.188254	-0.599622	0.172501	1.314347	2.643097
224	++++0	+00+	0--	00	0	-2.363960	-1.812004	-0.104811	0.762499	1.342716	2.175560
225	++++0	+000	0-+	+0	0	-2.175560	-1.342716	-0.762499	0.104811	1.812004	2.363960
226	++++0	+000	0-+	00	+	-2.643097	-1.314347	-0.172501	0.599622	1.188254	2.342068
227	++++0	0000	0-+	-0	+	-3.014326	-0.848136	-0.196690	0.724824	1.477984	1.856343
228	+++00	+000	-+0	++	0	-2.691391	-1.080944	-0.324054	0.303177	1.582900	2.210311
229	++++0	+++0	00+	00	0	-2.112911	-1.000000	-0.756244	0.000000	0.821355	3.047799
230	++++0	++-0	00+	00	0	-2.000000	-1.775713	-0.589216	0.723742	1.000000	2.641186
231	++++0	++-0	000	00	+	-2.170086	-1.561553	-0.311108	-0.000000	1.481194	2.561553
232	++++0	+00+	--0	00	0	-2.561553	-1.481194	0.000000	0.311108	1.561553	2.170086
233	++++0	+000	--0	0+	0	-2.641186	-1.000000	-0.723742	0.589216	1.775713	2.000000
234	+++00	0000	-++	++	0	-3.047799	-0.821355	-0.000000	0.756244	1.000000	2.112911
235	++++0	000+	00+	0+	+	-2.828427	0.000000	0.000000	0.000000	0.000000	2.828427
236	++++0	000+	00+	0+	-	-2.449490	-1.414214	0.000000	0.000000	1.414214	2.449490
237	++++0	000+	00+	0-	-	-2.000000	-2.000000	-0.000000	0.000000	2.000000	2.000000
238	++++0	++0+	000	00	+	-2.000000	-1.709275	-0.000000	0.000000	0.806063	2.903212
239	++++0	++0+	000	00	-	-2.000000	-1.414214	-0.732051	0.000000	1.414214	2.732051
240	++++0	+000	0-+	0+	0	-2.481194	-1.170086	-0.688892	0.688892	1.170086	2.481194
241	++++0	+000	0-+	0-	0	-2.214320	-1.675131	-0.539189	0.539189	1.675131	2.214320
242	++++0	000+	0-0	-0	+	-2.903212	-0.806063	-0.000000	0.000000	1.709275	2.000000
243	+++0-	00+0	00+	0+	+	-2.732051	-1.414214	0.000000	0.732051	1.414214	2.000000
244	++++0	++00	0+0	+0	0	-2.000000	-1.236068	-0.000000	0.000000	0.000000	3.236068
245	++++0	++00	0+0	-0	0	-2.000000	-1.414214	-0.732051	0.000000	1.414214	2.732051
246	++++0	+0-0	-00	+0	0	-2.000000	-2.000000	0.000000	0.000000	2.000000	2.000000
247	+++00	++0-	00+	0+	0	-2.613126	-1.082392	-0.000000	-0.000000	1.082392	2.613126
248	+++00	+00-	-0+	0+	0	-2.732051	-1.414214	0.000000	0.732051	1.414214	2.000000
249	+++00	0-+0	-+0	+0	0	-3.236068	-0.000000	0.000000	0.000000	1.236068	2.000000
250	++++0	+00+	00+	0+	0	-2.311657	-1.000000	-0.656954	0.308777	0.727166	2.932668
251	++++0	+00+	00+	00	-	-1.837308	-1.467946	-1.000000	0.089196	1.572346	2.643711
252	++++0	+00+	00-	0+	0	-2.268417	-1.708064	-0.207096	0.365667	1.423165	2.394745
253	++++0	000+	000	-+	+	-2.932668	-0.727166	-0.308777	0.656954	1.000000	2.311657

254	++++0 0000 00- -+ +	-2.643711	-1.572346	-0.089196	1.000000	1.467946	1.837308
255	+++00 +0+0 0-0 +0 +	-2.394745	-1.423165	-0.365667	0.207096	1.708064	2.268417
256	++++0 ++00 00+ 0+ 0	-2.240342	-1.368371	-0.000000	0.000000	0.664834	2.943879
257	++++0 ++00 00+ 0- 0	-1.749118	-1.414214	-1.271330	0.334904	1.414214	2.685544
258	++++0 +00+ 0-0 00 +	-2.376079	-1.414214	-0.595188	0.595188	1.414214	2.376079
259	+++00 +0+0 0-+ +0 0	-2.326846	-1.608038	-0.000000	0.000000	1.608038	2.326846
260	+++00 00+0 -++ +0 0	-2.943879	-0.664834	-0.000000	-0.000000	1.368371	2.240342
261	+++00 000- -++ 0+ 0	-2.685544	-1.414214	-0.334904	1.271330	1.414214	1.749118
262	++++0 ++00 0+0 0+ 0	-1.779608	-1.537083	-0.706201	-0.000000	1.041955	2.980937
263	++++0 ++00 00+ -0 0	-2.253931	-1.305913	-0.786711	0.587579	1.109660	2.649316
264	++++0 ++00 000 -0 +	-2.322199	-1.192393	-0.560369	0.000000	1.504129	2.570831
265	++++0 +00+ 0-0 +0 0	-2.000000	-1.586906	-0.863067	0.359470	1.697747	2.392756
266	++++0 +0-0 -00 0+ 0	-2.392756	-1.697747	-0.359470	0.863067	1.586906	2.000000
267	+++00 +0+0 0-+ 00 +	-2.570831	-1.504129	0.000000	0.560369	1.192393	2.322199
268	+++00 +000 -+0 +0 +	-2.649316	-1.109660	-0.587579	0.786711	1.305913	2.253931
269	+++00 0000 -++ +0 -	-2.980937	-1.041955	0.000000	0.706201	1.537083	1.779608
270	++++0 ++00 +00 00 +	-1.704468	-1.000000	-1.000000	-0.508923	1.116884	3.096507
271	++++0 ++00 -00 00 +	-2.331515	-1.520773	-0.579810	1.000000	1.000000	2.432099
272	+++00 ++00 -+0 00 +	-2.432099	-1.000000	-1.000000	0.579810	1.520773	2.331515
273	+++0- 00+0 -0+ 0+ 0	-3.096507	-1.116884	0.508923	1.000000	1.000000	1.704468
274	++++0 +00+ 000 0+ +	-2.454139	-1.195491	0.000000	0.000000	0.853193	2.796437
275	++++0 +00+ 000 0+ -	-2.000000	-1.662396	-0.757366	0.424945	1.495924	2.498894
276	++++0 +000 00- 0+ +	-2.153652	-1.446786	-0.592644	-0.000000	1.845141	2.347941
277	++++0 000+ 00+ -+ 0	-2.796437	-0.853193	-0.000000	0.000000	1.195491	2.454139
278	++++0 000+ 00- -+ 0	-2.498894	-1.495924	-0.424945	0.757366	1.662396	2.000000
279	+++00 00+0 0+0 -+ +	-2.347941	-1.845141	0.000000	0.592644	1.446786	2.153652
280	++++0 +00+ 000 ++ 0	-2.000000	-1.342923	-1.000000	0.529317	1.000000	2.813607
281	++++0 +00+ 000 +0 -	-1.732051	-1.561553	-1.000000	-0.000000	1.732051	2.561553
282	++++0 +00+ 000 -+ 0	-2.497212	-1.328131	-0.000000	0.000000	1.328131	2.497212
283	++++0 00-+ -0+ 00 0	-2.813607	-1.000000	-0.529317	1.000000	1.342923	2.000000
284	+++00 +0+- 000 0+ +	-2.307250	-1.535554	-0.564508	0.564508	1.535554	2.307250
285	+++00 00+0 -00 -+ +	-2.561553	-1.732051	0.000000	1.000000	1.561553	1.732051
286	++++0 +00+ 00+ +0 0	-1.842236	-1.000000	-1.000000	-0.506942	1.506942	2.842236
287	++++0 +00+ 00+ -0 0	-2.323404	-1.000000	-1.000000	0.642074	1.000000	2.681331
288	++++0 +00+ 00- +0 0	-2.000000	-1.561553	-1.000000	1.000000	1.000000	2.561553
289	++++0 +00+ 00- -0 0	-2.236068	-2.000000	-0.000000	1.000000	1.000000	2.236068
290	++++0 +000 000 -+ +	-2.681331	-1.000000	-0.642074	1.000000	1.000000	2.323404
291	++++0 00-+ -00 00 +	-2.842236	-1.506942	0.506942	1.000000	1.000000	1.842236
292	+++00 +000 -00 ++ +	-2.236068	-1.000000	-1.000000	-0.000000	2.000000	2.236068
293	+++00 +000 -00 ++ -	-2.561553	-1.000000	-1.000000	1.000000	1.561553	2.000000
294	++++0 ++00 00+ 00 +	-2.158438	-1.271849	-0.661061	0.183007	1.055423	2.852917
295	++++0 ++00 00+ 00 -	-1.778346	-1.667260	-0.807717	0.107105	1.441331	2.704888
296	++++0 +00+ 0-0 0+ 0	-2.280176	-1.729025	-0.164015	0.544671	1.141763	2.486781
297	++++0 +00+ 0-0 0- 0	-2.216355	-1.512105	-0.895159	0.895159	1.512105	2.216355
298	++++0 +000 0-0 0+ +	-2.486781	-1.141763	-0.544671	0.164015	1.729025	2.280176
299	+++00 +000 -+0 0+ +	-2.216355	-1.512105	-0.895159	0.895159	1.512105	2.216355
300	+++00 00+0 -++ 0+ 0	-2.852917	-1.055423	-0.183007	0.661061	1.271849	2.158438
301	+++00 00+0 -0+ -+ 0	-2.704888	-1.441331	-0.107105	0.807717	1.667260	1.778346
302	+++00 ++00 0+0 +0 +	-2.292402	-1.000000	-0.602705	0.000000	1.000000	2.895107
303	+++00 ++00 0+0 -0 +	-1.732051	-1.561553	-1.000000	-0.000000	1.732051	2.561553
304	+++00 +0+0 0-0 ++ 0	-2.307250	-1.535554	-0.564508	0.564508	1.535554	2.307250
305	+++00 00++ 0++ 00 -	-2.895107	-1.000000	-0.000000	0.602705	1.000000	2.292402
306	+++00 00+- 000 -+ +	-2.561553	-1.732051	0.000000	1.000000	1.561553	1.732051
307	+++00 00++ 0++ +0 0	-2.732051	-0.732051	-0.000000	0.000000	0.732051	2.732051
308	+++00 00++ 0++ 0- 0	-2.449490	-1.414214	-0.000000	0.000000	1.414214	2.449490
309	+++00 00++ 0+0 -+ 0	-2.214320	-1.675131	-0.539189	0.539189	1.675131	2.214320

310	+++00 00++ 0+- -0 0	-2.000000	-1.414214	-1.414214	1.414214	1.414214	2.000000
311	+++00 +0+0 000 ++ +	-2.000000	-1.414214	-0.732051	0.000000	1.414214	2.732051
312	+++00 +0+0 000 ++ -	-2.481194	-1.170086	-0.688892	0.688892	1.170086	2.481194
313	+++00 +0+0 000 -+ +	-2.288246	-1.414214	-0.874032	0.874032	1.414214	2.288246
314	+++00 +000 00- ++ +	-1.675131	-1.675131	-0.539189	-0.539189	2.214320	2.214320
315	+++00 00++ -+0 00 -	-2.732051	-1.414214	-0.000000	0.732051	1.414214	2.000000
316	+++00 00+- -0+ 00 +	-2.214320	-2.214320	0.539189	0.539189	1.675131	1.675131
317	+++00 +0+0 00+ ++ 0	-2.220008	-1.618034	-0.231361	0.618034	0.710287	2.741082
318	+++00 +0+0 00+ +0 -	-2.183629	-1.429567	-0.618034	0.128950	1.618034	2.484245
319	+++00 +0+0 00- 0+ +	-1.732051	-1.618034	-1.302776	0.618034	1.732051	2.302776
320	+++00 00++ 0+0 0+ -	-2.741082	-0.710287	-0.618034	0.231361	1.618034	2.220008
321	+++00 00+0 0+- 0+ +	-2.484245	-1.618034	-0.128950	0.618034	1.429567	2.183629
322	+++00 00+0 00- -+ +	-2.302776	-1.732051	-0.618034	1.302776	1.618034	1.732051
323	+++00 ++00 0+0 0+ +	-1.791288	-1.618034	-1.000000	0.618034	1.000000	2.791288
324	+++00 ++00 0+0 0+ -	-2.145103	-1.000000	-0.618034	-0.523976	1.618034	2.669079
325	+++00 +0+0 0-0 0+ +	-2.236068	-1.618034	-0.618034	0.618034	1.618034	2.236068
326	+++00 00+0 -0+ 0+ +	-2.669079	-1.618034	0.523976	0.618034	1.000000	2.145103
327	+++00 00+0 -0+ 0+ -	-2.791288	-1.000000	-0.618034	1.000000	1.618034	1.791288
328	+++++ ++++ 000 00 0	-2.372281	-1.000000	-0.000000	0.000000	0.000000	3.372281
329	+++++ ++-+ 000 00 0	-2.000000	-2.000000	0.000000	0.000000	1.000000	3.000000
330	+++++ ++-- 000 00 0	-2.561553	-1.561553	0.000000	0.000000	1.561553	2.561553
331	++++- 000+ 00+ 0+ +	-3.372281	-0.000000	-0.000000	-0.000000	1.000000	2.372281
332	++++- 000+ 00+ 0+ -	-3.000000	-1.000000	-0.000000	0.000000	2.000000	2.000000
333	+++++ +++0 +00 00 0	-1.861910	-1.282696	-1.000000	0.251197	0.489727	3.403682
334	+++++ +++0 000 -0 0	-2.562811	-1.356041	-0.304530	0.326133	1.000000	2.897249
335	+++++ ++00 +00 0- 0	-2.178651	-1.173571	-1.000000	0.109626	1.155797	3.086799
336	+++++ ++00 -+0 00 0	-2.321652	-1.748685	-0.258899	0.269038	1.265241	2.794957
337	+++++ ++00 -00 0- 0	-2.751558	-1.443074	-0.158830	0.442119	1.467578	2.443764
338	+++++ ++0- -00 00 0	-2.346215	-2.108957	-0.074612	1.000000	1.127585	2.402199
339	+++++ +000 0-- 00 +	-2.402199	-1.127585	-1.000000	0.074612	2.108957	2.346215
340	++++0 ++00 -++ 00 0	-2.443764	-1.467578	-0.442119	0.158830	1.443074	2.751558
341	++++0 ++00 -00 -+ 0	-2.794957	-1.265241	-0.269038	0.258899	1.748685	2.321652
342	++++- +00+ 00+ 0+ 0	-2.897249	-1.000000	-0.326133	0.304530	1.356041	2.562811
343	++++- +000 0-+ 00 +	-3.086799	-1.155797	-0.109626	1.000000	1.173571	2.178651
344	++++- 000+ 000 -+ +	-3.403682	-0.489727	-0.251197	1.000000	1.282696	1.861910
345	+++++ +++0 00+ 00 0	-2.000000	-1.540785	-0.512486	-0.000000	0.771876	3.281394
346	+++++ +++0 000 00 -	-2.440868	-1.271922	-0.391804	-0.000000	1.091303	3.013291
347	+++++ ++00 0+- 00 0	-2.197539	-1.570212	-0.760765	0.458216	1.131584	2.938715
348	+++++ ++00 000 -- 0	-2.698282	-1.181470	-0.303503	-0.000000	1.600973	2.582281
349	+++++ ++0- 000 00 +	-2.000000	-1.732051	-0.732051	0.000000	1.732051	2.732051
350	+++++ ++0- 000 -0 0	-2.372553	-1.838070	-0.384144	0.702361	1.323224	2.569181
351	+++++ +000 00- 0+ -	-2.569181	-1.323224	-0.702361	0.384144	1.838070	2.372553
352	++++0 ++-+ 000 00 +	-2.582281	-1.600973	0.000000	0.303503	1.181470	2.698282
353	++++0 +000 --+ 0+ 0	-2.938715	-1.131584	-0.458216	0.760765	1.570212	2.197539
354	++++- +00+ 000 0+ +	-3.013291	-1.091303	0.000000	0.391804	1.271922	2.440868
355	++++- 000+ 00+ -+ 0	-3.281394	-0.771876	-0.000000	0.512486	1.540785	2.000000
356	+++0- 00+- 00+ 0+ +	-2.732051	-1.732051	-0.000000	0.732051	1.732051	2.000000
357	+++++ ++00 0+0 +0 0	-2.000000	-1.681331	-0.000000	0.000000	0.357926	3.323404
358	+++++ ++00 0+0 -0 0	-2.177410	-1.414214	-1.000000	0.321637	1.414214	2.855773
359	+++++ +00- 0-0 00 +	-2.236068	-2.000000	-0.000000	0.000000	2.000000	2.236068
360	++++- ++00 00+ 0+ 0	-2.715195	-1.275821	-0.000000	0.000000	1.275821	2.715195
361	++++- +00+ 0-0 00 +	-2.855773	-1.414214	-0.321637	1.000000	1.414214	2.177410
362	+++00 0-+0 -+0 ++ 0	-3.323404	-0.357926	0.000000	0.000000	1.681331	2.000000
363	+++++ ++00 0+0 0+ 0	-1.808530	-1.526602	-1.000000	0.112389	1.000000	3.222743
364	+++++ ++00 0+0 00 -	-2.240738	-1.603620	-0.472935	0.166368	1.197661	2.953263
365	+++++ ++00 000 0- +	-2.199540	-1.308917	-1.000000	0.075439	1.660972	2.772046

366	+++++	++00	00-	-0	0	-2.577935	-1.163722	-1.000000	1.000000	1.163722	2.577935
367	+++++	+000	00-	-+	0	-2.334414	-1.732051	-0.741964	0.741964	1.732051	2.334414
368	++++-	++00	00+	00	+	-2.686668	-1.303969	-0.285442	0.285442	1.303969	2.686668
369	++++-	+00+	000	++	0	-2.577935	-1.163722	-1.000000	1.000000	1.163722	2.577935
370	++++-	+00+	000	-+	0	-2.953263	-1.197661	-0.166368	0.472935	1.603620	2.240738
371	++++-	+00+	0-0	0+	0	-2.772046	-1.660972	-0.075439	1.000000	1.308917	2.199540
372	+++00	0-+0	-0+	++	0	-3.222743	-1.000000	-0.112389	1.000000	1.526602	1.808530
373	+++++	++00	+00	00	+	-1.601679	-1.000000	-1.000000	-1.000000	1.339877	3.261802
374	+++++	++00	+00	00	-	-2.273073	-1.000000	-1.000000	0.140435	1.000000	3.132637
375	+++++	++00	-00	00	+	-2.348894	-1.395932	-1.000000	1.000000	1.000000	2.744826
376	+++++	++00	-00	00	-	-2.581807	-1.798880	-0.087245	1.000000	1.000000	2.467932
377	++++-	+00+	00+	+0	0	-2.467932	-1.000000	-1.000000	0.087245	1.798880	2.581807
378	++++-	+00+	00+	-0	0	-2.744826	-1.000000	-1.000000	1.000000	1.395932	2.348894
379	++++-	+000	000	-+	+	-3.132637	-1.000000	-0.140435	1.000000	1.000000	2.273073
380	++++-	00-+	-00	00	+	-3.261802	-1.339877	1.000000	1.000000	1.000000	1.601679
381	++++0	+++0	++0	00	0	-1.645751	-1.000000	-1.000000	-0.000000	0.000000	3.645751
382	++++0	+++0	+00	-0	0	-2.249141	-1.000000	-1.000000	0.000000	1.146365	3.102775
383	++++0	+++0	0-0	-0	0	-2.917286	-1.000000	-0.000000	0.000000	1.319551	2.597735
384	++++0	++00	-+0	+0	0	-2.597735	-1.319551	0.000000	0.000000	1.000000	2.917286
385	++++0	++00	-+0	-0	0	-2.342923	-1.561553	-0.470683	0.000000	1.813607	2.561553
386	++++0	++-0	-+0	00	0	-2.561553	-1.813607	0.000000	0.470683	1.561553	2.342923
387	+++00	++0-	-0+	0+	0	-3.102775	-1.146365	-0.000000	1.000000	1.000000	2.249141
388	+++00	---+0	-+0	+0	0	-3.645751	0.000000	0.000000	1.000000	1.000000	1.645751
389	++++0	+++0	+0+	00	0	-1.798457	-1.327912	-1.000000	-0.000000	0.742438	3.383931
390	++++0	+++0	000	-+	0	-2.609372	-1.000000	-0.590129	-0.000000	1.383852	2.815649
391	++++0	++0+	+00	0-	0	-2.000000	-1.514137	-1.000000	0.428007	1.000000	3.086130
392	++++0	++0+	-+0	00	0	-2.356270	-1.587209	-0.610583	0.483317	1.315347	2.755398
393	++++0	++0+	-00	0-	0	-2.686727	-1.603802	0.000000	0.388575	1.478903	2.423050
394	++++0	++00	-+0	0+	0	-2.423050	-1.478903	-0.388575	-0.000000	1.603802	2.686727
395	++++0	++00	-0+	0+	0	-2.815649	-1.383852	-0.000000	0.590129	1.000000	2.609372
396	++++0	++00	-0+	0-	0	-2.310779	-1.354488	-1.000000	0.266370	2.000000	2.398898
397	++++0	++00	-0+	-0	0	-2.755398	-1.315347	-0.483317	0.610583	1.587209	2.356270
398	++++0	++-0	-0+	00	0	-2.398898	-2.000000	-0.266370	1.000000	1.354488	2.310779
399	+++0-	+000	-0+	++	0	-3.086130	-1.000000	-0.428007	1.000000	1.514137	2.000000
400	+++0-	000+	-++	0+	0	-3.383931	-0.742438	-0.000000	1.000000	1.327912	1.798457
401	++++0	++0+	0++	00	0	-1.618034	-1.618034	-1.236068	0.618034	0.618034	3.236068
402	++++0	++0+	0+-	00	0	-2.302776	-1.472834	-0.462598	0.000000	1.302776	2.935432
403	+++++0	++0+	000	--	0	-2.501551	-1.618034	-0.451291	0.618034	1.373883	2.578959
404	++++0	+000	0-+	+0	+	-2.57895	-1.37388	-0.61803	0.45129	1.61803	2.501551
405	++++0	+000	0-+	+0	-	-2.000000	-1.302776	-1.302776	-0.000000	2.302776	2.302776
406	+++0	+000	0-+	-0	+	-2.935432	-1.302776	-0.000000	0.462598	1.472834	2.302776
407	++++0	+0-+	-0-	00	0	-2.302776	-2.302776	0.000000	1.302776	1.302776	2.000000
408	++++0	00-0	-00	-+	+	-3.236068	-0.618034	-0.618034	1.236068	1.618034	1.618034
409	++++0	++0+	0+0	+0	0	-2.139248	-1.292730	-0.597518	-0.000000	0.734704	3.294791
410	++++0	++0+	0+0	-0	0	-2.000000	-1.721415	-0.888383	0.315355	1.466437	2.828006
411	++++0	++00	0+0	-+	0	-2.176639	-1.455273	-0.815079	-0.000000	1.679345	2.767647
412	++++0	++0-	00+	0+	0	-2.625453	-1.531750	-0.000000	0.332924	1.094413	2.729865
413	++++0	+00+	0-+	00	+	-2.700478	-1.130641	-0.655035	0.655035	1.130641	2.700478
414	++++0	+00+	0--	00	+	-2.188901	-2.000000	-0.456850	0.456850	2.000000	2.188901
415	++++0	+00-	0-+	00	+	-2.767647	-1.679345	-0.000000	0.815079	1.455273	2.176639
416	++++0	0000	0-+	-+	+	-3.294791	-0.734704	-0.000000	0.597518	1.292730	2.139248
417	+++00	++0-	00+	0+	+	-2.729865	-1.094413	-0.332924	0.000000	1.531750	2.625453
418	+++00	+00-	-0+	++	0	-2.828006	-1.466437	-0.315355	0.888383	1.721415	2.000000
419	++++0	+++0	+00	00	+	-1.877404	-1.000000	-1.000000	-0.476452	1.000000	3.353856
420	++++0	+++0	00+	-0	0	-2.536630	-1.000000	-1.000000	0.693225	1.000000	2.843404
421	++++0	++00	+00	-0	+	-2.170086	-1.000000	-1.000000	-0.311108	1.481194	3.000000

422	++++0	++00	-+0	00	+	-2.284259	-1.674193	-0.657390	0.541378	1.346812	2.727652
423	++++0	++00	-00	-0	+	-2.727652	-1.346812	-0.541378	0.657390	1.674193	2.284259
424	++++0	++-0	-00	00	+	-2.236068	-2.170086	-0.311108	1.000000	1.481194	2.236068
425	++++0	+00+	--0	+0	0	-2.236068	-1.481194	-1.000000	0.311108	2.170086	2.236068
426	+++00	++00	-+0	+0	+	-2.843404	-1.000000	-0.693225	1.000000	1.000000	2.536630
427	+++00	+0+-	0-+	00	+	-3.000000	-1.481194	0.311108	1.000000	1.000000	2.170086
428	+++00	0000	-++	++	-	-3.353856	-1.000000	0.476452	1.000000	1.000000	1.877404
429	++++0	+00+	00+	0+	+	-2.626198	-1.000000	-0.000000	0.000000	0.484862	3.141336
430	++++0	+00+	00+	0+	-	-2.177410	-1.414214	-1.000000	0.321637	1.414214	2.855773
431	++++0	+00+	00+	0-	-	-2.000000	-1.561553	-1.000000	0.000000	2.000000	2.561553
432	++++0	+00+	00-	0+	+	-2.561553	-1.561553	-0.000000	0.000000	1.561553	2.561553
433	++++0	+00+	00-	0+	-	-2.342923	-1.813607	-0.470683	0.470683	1.813607	2.342923
434	++++0	000+	00+	-+	+	-3.141336	-0.484862	0.000000	0.000000	1.000000	2.626198
435	++++0	000+	00-	-+	+	-2.855773	-1.414214	-0.321637	1.000000	1.414214	2.177410
436	+++0-	00+0	0+0	-+	+	-2.561553	-2.000000	0.000000	1.000000	1.561553	2.000000
437	++++0	++0+	0+0	00	+	-2.205168	-1.505788	-0.466300	0.279848	0.728212	3.169195
438	++++0	++0+	0+0	00	-	-1.760639	-1.551590	-1.224253	0.066511	1.528169	2.941802
439	++++0	++0+	000	0-	+	-2.308449	-1.728802	-0.323792	0.198770	1.419438	2.742836
440	++++0	++00	00+	-+	0	-2.553402	-1.311013	-0.396554	0.223235	1.181416	2.856318
441	++++0	++00	00+	--	0	-2.237266	-1.443410	-1.121588	0.587914	1.644988	2.569362
442	++++0	++0-	00+	00	+	-2.433240	-1.424386	-0.539994	0.125620	1.580079	2.691922
443	++++0	+00+	0-0	+0	+	-2.237266	-1.443410	-1.121588	0.587914	1.644988	2.569362
444	++++0	+00+	0-0	+0	-	-2.258058	-1.612207	-0.653408	0.085539	2.121117	2.317017
445	++++0	+00+	0-0	-0	+	-2.742836	-1.419438	-0.198770	0.323792	1.728802	2.308449
446	++++0	+00+	0--	0+	0	-2.317017	-2.121117	-0.085539	0.653408	1.612207	2.258058
447	++++0	+000	0-+	0+	+	-2.856318	-1.181416	-0.223235	0.396554	1.311013	2.553402
448	++++0	+000	0-+	0-	+	-2.569362	-1.644988	-0.587914	1.121588	1.443410	2.237266
449	++++0	+00-	0-+	0+	0	-2.569362	-1.644988	-0.587914	1.121588	1.443410	2.237266
450	++++0	000+	0-+	-0	+	-3.169195	-0.728212	-0.279848	0.466300	1.505788	2.205168
451	+++00	+0+0	0-+	+0	+	-2.691922	-1.580079	-0.125620	0.539994	1.424386	2.433240
452	+++0-	00+0	00+	-+	+	-2.941802	-1.528169	-0.066511	1.224253	1.551590	1.760639
453	++++0	++0+	0+0	0+	0	-1.801938	-1.588364	-0.593579	-0.445042	1.246980	3.181943
454	++++0	++0+	0+0	0-	0	-2.220294	-1.483960	-0.866783	0.552621	1.077107	2.941308
455	++++0	++0+	00-	-0	0	-2.388490	-1.801938	-0.445042	0.812716	1.246980	2.575773
456	++++0	++00	000	-+	+	-2.671405	-1.158103	-0.722766	0.722766	1.158103	2.671405
457	++++0	+00+	0-+	+0	0	-2.198691	-1.377203	-0.713538	-0.273891	1.912229	2.651093
458	++++0	+00+	0--	+0	0	-2.308692	-1.672830	-0.933585	0.933585	1.672830	2.308692
459	++++0	+000	0-0	-+	+	-2.941308	-1.077107	-0.552621	0.866783	1.483960	2.220294
460	++++0	+0-+	-00	00	+	-2.651093	-1.912229	0.273891	0.713538	1.377203	2.198691
461	+++00	+000	-+0	++	+	-2.575773	-1.246980	-0.812716	0.445042	1.801938	2.388490
462	+++0-	000+	-++	+0	0	-3.181943	-1.246980	0.445042	0.593579	1.588364	1.801938
463	++++0	++0+	+00	00	+	-2.000000	-1.236068	-1.000000	-0.000000	1.000000	3.236068
464	++++0	++0+	+00	00	-	-1.761557	-1.414214	-1.000000	-0.363328	1.414214	3.124885
465	++++0	++0+	-00	00	+	-2.323404	-2.000000	0.000000	0.642074	1.000000	2.681331
466	++++0	++0+	-00	00	-	-2.449490	-1.414214	-1.000000	1.000000	1.414214	2.449490
467	++++0	++00	-0+	00	+	-2.588738	-1.414214	-0.546295	0.546295	1.414214	2.588738
468	++++0	++00	-0+	00	-	-2.403842	-1.646460	-0.714641	0.714641	1.646460	2.403842
469	++++0	+0-0	0-0	0+	+	-2.681331	-1.000000	-0.642074	0.000000	2.000000	2.323404
470	+++00	++00	-+0	0+	+	-2.449490	-1.414214	-1.000000	1.000000	1.414214	2.449490
471	+++0-	00+0	-++	0+	0	-3.236068	-1.000000	0.000000	1.000000	1.236068	2.000000
472	+++0-	00+0	-0+	0+	+	-3.124885	-1.414214	0.363328	1.000000	1.414214	1.761557
473	++++0	+++0	00+	0+	0	-2.396206	-1.000000	-0.627204	0.000000	0.834653	3.188757
474	++++0	+++0	00+	00	-	-2.000000	-1.414214	-1.000000	-0.000000	1.414214	3.000000
475	++++0	++-0	00+	0+	0	-2.177410	-2.000000	0.000000	0.321637	1.000000	2.855773
476	++++0	++-0	00+	00	+	-2.250175	-1.700856	-0.648186	0.391695	1.547607	2.659915
477	++++0	++-0	00+	0-	0	-2.000000	-1.561553	-1.414214	1.000000	1.414214	2.561553

478	++++0	+00+	--0	0+	0	-2.659915	-1.547607	-0.391695	0.648186	1.700856	2.250175
479	++++0	+000	--0	0+	+	-2.855773	-1.000000	-0.321637	-0.000000	2.000000	2.177410
480	+++00	00+0	-++	++	0	-3.188757	-0.834653	-0.000000	0.627204	1.000000	2.396206
481	+++00	000-	-++	++	0	-3.000000	-1.414214	0.000000	1.000000	1.414214	2.000000
482	+++0-	+000	-0+	+0	+	-2.561553	-1.414214	-1.000000	1.414214	1.561553	2.000000
483	++++0	+00+	00+	++	0	-2.178651	-1.173571	-1.000000	0.109626	1.155797	3.086799
484	++++0	+00+	00+	+0	-	-1.816956	-1.427670	-1.000000	-0.490548	2.044430	2.690744
485	++++0	+00+	00+	-+	0	-2.623336	-1.000000	-0.632418	0.172620	1.219265	2.863870
486	++++0	+00+	000	++	-	-2.248847	-1.532824	-1.000000	0.676918	1.456381	2.648372
487	++++0	+00+	000	-+	+	-2.863870	-1.219265	-0.172620	0.632418	1.000000	2.623336
488	++++0	+00+	00-	-+	0	-2.510075	-1.870725	-0.101100	0.562681	1.649010	2.270209
489	++++0	+000	00-	-+	+	-2.648372	-1.456381	-0.676918	1.000000	1.532824	2.248847
490	++++0	00-+	-0+	0+	0	-3.086799	-1.155797	-0.109626	1.000000	1.173571	2.178651
491	+++00	++00	0+0	-+	+	-2.248847	-1.532824	-1.000000	0.676918	1.456381	2.648372
492	+++00	+0+0	0-0	++	+	-2.270209	-1.649010	-0.562681	0.101100	1.870725	2.510075
493	+++00	+0+0	0-0	++	-	-2.648372	-1.456381	-0.676918	1.000000	1.532824	2.248847
494	+++00	00+-	-0+	0+	+	-2.690744	-2.044430	0.490548	1.000000	1.427670	1.816956
495	++++0	++00	00+	0+	+	-2.508622	-1.285519	-0.000000	0.000000	0.701975	3.092166
496	++++0	++00	00+	0+	-	-2.196592	-1.583881	-0.548893	-0.000000	1.459943	2.869423
497	++++0	++00	00+	0-	+	-2.000000	-1.519081	-1.153509	0.245526	1.712495	2.714569
498	++++0	+00+	0-0	0+	+	-2.606010	-1.486174	-0.000000	0.000000	1.486174	2.606010
499	++++0	+00+	0-0	0-	+	-2.261616	-1.657075	-1.067330	1.067330	1.657075	2.261616
500	++++0	+00-	0-0	0+	+	-2.522177	-1.432590	-0.659014	0.375203	2.000000	2.238578
501	+++00	+0+0	0-+	++	0	-2.238578	-2.000000	-0.375203	0.659014	1.432590	2.522177
502	+++00	00++	0++	+0	-	-3.092166	-0.701975	-0.000000	0.000000	1.285519	2.508622
503	+++00	00++	0++	0-	-	-2.869423	-1.459943	0.000000	0.548893	1.583881	2.196592
504	+++00	00+0	0+-	-+	+	-2.714569	-1.712495	-0.245526	1.153509	1.519081	2.000000
505	++++0	++00	0+0	0+	+	-2.000000	-1.618034	-0.860806	0.618034	0.745898	3.114908
506	++++0	++00	0+0	0+	-	-2.000000	-1.472834	-0.618034	-0.462598	1.618034	2.935432
507	++++0	++00	00+	-0	+	-2.518199	-1.178194	-0.618034	-0.000000	1.618034	2.696393
508	++++0	+00+	0-0	++	0	-2.000000	-2.000000	-0.618034	0.381966	1.618034	2.618034
509	++++0	+00+	0-0	+-	0	-2.000000	-1.618034	-1.302776	0.618034	2.000000	2.302776
510	++++0	+0-0	-00	0+	+	-2.618034	-1.618034	-0.381966	0.618034	2.000000	2.000000
511	+++00	++0-	0+0	0+	+	-2.226283	-1.618034	-0.910233	0.618034	1.493910	2.642607
512	+++00	+0+0	0-+	0+	+	-2.696393	-1.618034	0.000000	0.618034	1.178194	2.518199
513	+++00	+0+0	0-+	0-	+	-2.642607	-1.493910	-0.618034	0.910233	1.618034	2.226283
514	+++00	+00-	-0+	+0	+	-2.302776	-2.000000	-0.618034	1.302776	1.618034	2.000000
515	+++00	00+0	-++	0+	-	-3.114908	-0.745898	-0.618034	0.860806	1.618034	2.000000
516	+++00	00+0	-0+	-+	+	-2.935432	-1.618034	0.462598	0.618034	1.472834	2.000000
517	+++00	00++	0++	++	0	-3.000000	-0.000000	0.000000	0.000000	0.000000	3.000000
518	+++00	00++	0++	+-	0	-2.561553	-1.561553	-0.000000	-0.000000	1.561553	2.561553
519	+++00	00++	0+-	-+	0	-2.000000	-2.000000	-1.000000	1.000000	2.000000	2.000000
520	+++00	+0+0	00+	++	+	-2.000000	-2.000000	-0.000000	-0.000000	1.000000	3.000000
521	+++00	+0+0	00+	++	-	-2.588738	-1.414214	-0.546295	0.546295	1.414214	2.588738
522	+++00	+0+0	00-	++	+	-2.000000	-1.561553	-1.000000	0.000000	2.000000	2.561553
523	+++00	+0+0	00-	-+	+	-2.236068	-1.414214	-1.414214	1.414214	1.414214	2.236068
524	+++00	00++	-+0	0+	-	-3.000000	-1.000000	0.000000	0.000000	2.000000	2.000000
525	+++00	00+-	-+0	0+	+	-2.561553	-2.000000	-0.000000	1.000000	1.561553	2.000000
526	+++++	++++	+00	00	0	-2.141336	-1.000000	-1.000000	0.000000	0.515138	3.626198
527	+++++	++++	000	00	-	-2.746568	-1.000000	-0.454904	0.000000	1.000000	3.201472
528	+++++	+++-	+00	00	0	-2.000000	-1.681331	-1.000000	0.357926	1.000000	3.323404
529	+++++	+++-	00+	00	0	-2.353001	-1.810260	-0.229967	0.000000	1.335441	3.057787
530	+++++	+++-	000	-0	0	-2.489289	-2.000000	-0.289169	1.000000	1.000000	2.778457
531	+++++	++00	+00	--	0	-2.561553	-1.000000	-1.000000	0.000000	1.561553	3.000000
532	+++++	++00	-+-	00	0	-2.671245	-1.628854	-0.459657	0.459657	1.628854	2.671245
533	+++++	++--	000	00	+	-2.236068	-1.561553	-1.000000	0.000000	2.236068	2.561553

534	+++++	++--	-00	00	0	-2.561553	-2.236068	0.000000	1.000000	1.561553	2.236068
535	++++-	++-+	000	00	+	-3.000000	-1.561553	0.000000	1.000000	1.000000	2.561553
536	++++-	+00+	00+	0+	+	-3.201472	-1.000000	-0.000000	0.454904	1.000000	2.746568
537	++++-	+00+	00+	0+	-	-2.778457	-1.000000	-1.000000	0.289169	2.000000	2.489289
538	++++-	+00+	00-	0+	+	-3.057787	-1.335441	0.000000	0.229967	1.810260	2.353001
539	++++-	+000	--+	0+	0	-3.323404	-1.000000	-0.357926	1.000000	1.681331	2.000000
540	++++-	000+	00+	-+	+	-3.626198	-0.515138	-0.000000	1.000000	1.000000	2.141336
541	+++++	+++0	++0	00	0	-1.766963	-1.384241	-1.000000	0.000000	0.440752	3.710452
542	+++++	+++0	+00	-0	0	-2.330522	-1.370845	-1.000000	0.334088	1.173372	3.193906
543	+++++	+++0	0-0	-0	0	-2.969858	-1.366869	0.000000	0.269971	1.337150	2.729607
544	+++++	++00	-+0	+0	0	-2.608211	-1.715068	0.000000	0.295315	1.000000	3.027964
545	+++++	++00	-+0	-0	0	-2.451941	-1.670524	-0.694962	0.283148	1.846220	2.688059
546	+++++	++0-	-0+	00	0	-2.561553	-2.086130	0.000000	0.571993	1.561553	2.514137
547	++++0	+++0	+00	-+	0	-2.401453	-1.143953	-1.000000	-0.000000	1.379945	3.165461
548	++++0	+++0	0-0	-0	+	-3.027964	-1.000000	-0.295315	-0.000000	1.715068	2.608211
549	++++0	++00	-++	+0	0	-2.729607	-1.337150	-0.269971	0.000000	1.366869	2.969858
550	++++0	++00	-+0	-+	0	-2.514137	-1.561553	-0.571993	-0.000000	2.086130	2.561553
551	++++0	++-+	-+0	00	0	-2.688059	-1.846220	-0.283148	0.694962	1.670524	2.451941
552	++++-	++00	-0+	0+	0	-3.165461	-1.379945	0.000000	1.000000	1.143953	2.401453
553	++++-	+00+	0-+	00	+	-3.193906	-1.173372	-0.334088	1.000000	1.370845	2.330522
554	++++-	0000	0-+	-+	+	-3.710452	-0.440752	-0.000000	1.000000	1.384241	1.766963
555	+++++	+++0	+0+	00	0	-1.751532	-1.618034	-1.000000	0.158917	0.618034	3.592615
556	+++++	+++0	+00	0-	0	-2.213901	-1.328465	-1.000000	0.090778	1.126416	3.325172
557	+++++	+++0	000	-+	0	-2.499858	-1.512797	-0.513194	0.126051	1.332780	3.067017
558	+++++	+++0	000	-0	-	-2.852079	-1.288469	-0.334852	0.197007	1.467544	2.810848
559	+++++	++00	+0-	-0	0	-2.302776	-1.618034	-1.000000	0.618034	1.302776	3.000000
560	+++++	++00	-+0	0+	0	-2.327191	-1.703671	-0.618034	0.085637	1.618034	2.945225
561	+++++	++00	-+0	0-	0	-2.663692	-1.719505	-0.180275	0.286286	1.552747	2.724438
562	+++++	++00	-0-	-0	0	-3.000000	-1.302776	-0.618034	1.000000	1.618034	2.302776
563	+++++	++0-	000	0-	+	-2.272221	-1.529732	-1.000000	0.051987	2.048532	2.701434
564	+++++	++0-	000	-+	0	-2.302776	-2.145103	-0.523976	1.000000	1.302776	2.669079
565	+++++	++0-	-00	-0	0	-2.701434	-2.048532	-0.051987	1.000000	1.529732	2.272221
566	++++0	++0+	-++	00	0	-2.302776	-1.618034	-1.000000	0.618034	1.302776	3.000000
567	++++0	++0+	-+-	00	0	-2.724438	-1.552747	-0.286286	0.180275	1.719505	2.663692
568	++++0	++00	-++	0+	0	-2.810848	-1.467544	-0.197007	0.334852	1.288469	2.852079
569	++++0	++00	-0+	-+	0	-3.067017	-1.332780	-0.126051	0.513194	1.512797	2.499858
570	++++0	+000	--+	++	0	-2.669079	-1.302776	-1.000000	0.523976	2.145103	2.302776
571	++++-	+000	0-+	+0	+	-3.000000	-1.302776	-0.618034	1.000000	1.618034	2.302776
572	++++-	+000	0-+	0+	+	-3.325172	-1.126416	-0.090778	1.000000	1.328465	2.213901
573	++++-	000+	0-+	-0	+	-3.592615	-0.618034	-0.158917	1.000000	1.618034	1.751532
574	+++00	+-+0	-0+	++	0	-2.945225	-1.618034	-0.085637	0.618034	1.703671	2.327191
575	+++++	+++0	00+	0+	0	-2.176935	-1.478160	-0.528409	0.000000	0.669443	3.514061
576	+++++	+++0	00+	00	-	-2.230053	-1.610937	-0.736792	-0.000000	1.448996	3.128785
577	+++++	++00	0+0	+0	-	-2.284043	-1.744947	-0.287660	0.000000	1.076929	3.239720
578	+++++	++00	0+0	-+	0	-2.000000	-1.593688	-1.264782	0.201024	1.630808	3.026638
579	+++++	++00	0+0	-0	-	-2.570136	-1.435092	-0.779176	0.291751	1.721585	2.771068
580	+++++	++00	0+-	-0	0	-2.309655	-1.691658	-1.125182	0.880805	1.510884	2.734806
581	+++++	++00	00-	0-	+	-2.614122	-1.339170	-0.661611	-0.000000	1.928906	2.685998
582	+++++	++0-	000	-0	+	-2.211614	-2.000000	-0.637875	0.275377	2.000000	2.574111
583	++++0	+++-	00+	0+	0	-2.793041	-1.178761	-0.316414	-0.000000	1.273785	3.014432
584	++++0	++-+	00+	00	+	-2.613885	-1.565276	-0.507964	0.557388	1.164469	2.965268
585	++++0	++-+	000	0-	+	-2.771068	-1.721585	-0.291751	0.779176	1.435092	2.570136
586	++++0	++--	00+	0+	0	-2.685998	-1.928906	-0.000000	0.661611	1.339170	2.614122
587	++++0	+00+	--+	0+	0	-2.965268	-1.164469	-0.557388	0.507964	1.565276	2.613885
588	++++0	+000	--+	0+	+	-3.239720	-1.076929	0.000000	0.287660	1.744947	2.284043
589	++++0	+00-	--+	0+	0	-3.026638	-1.630808	-0.201024	1.264782	1.593688	2.000000

590	++++-	++00	00+	0+	+	-3.014432	-1.273785	0.000000	0.316414	1.178761	2.793041
591	++++-	+00+	0-0	+0	+	-2.734806	-1.510884	-0.880805	1.125182	1.691658	2.309655
592	++++-	+00+	0-0	0+	+	-3.128785	-1.448996	0.000000	0.736792	1.610937	2.230053
593	+++00	+0+0	--+	++	0	-2.574111	-2.000000	-0.275377	0.637875	2.000000	2.211614
594	+++00	0-++	-+0	++	0	-3.514061	-0.669443	-0.000000	0.528409	1.478160	2.176935
595	+++++	+++0	+00	00	+	-1.698969	-1.511053	-1.000000	-0.407145	1.082748	3.534418
596	+++++	+++0	+00	00	-	-2.288946	-1.168736	-1.000000	-0.000000	1.119942	3.337741
597	+++++	+++0	00+	-0	0	-2.492853	-1.549096	-0.615215	0.540158	1.000000	3.117006
598	+++++	+++0	00-	-0	0	-2.741697	-1.447586	-0.673424	1.000000	1.072915	2.789793
599	+++++	++00	+00	0-	+	-2.000000	-1.368649	-1.000000	-0.526158	1.787711	3.107096
600	+++++	++00	0+-	00	+	-2.377756	-1.501363	-1.000000	0.580146	1.279132	3.019840
601	+++++	++00	000	--	+	-2.419643	-1.161018	-1.000000	-0.246286	2.204911	2.622037
602	+++++	++00	-+0	00	-	-2.323404	-2.170086	-0.311108	0.642074	1.481194	2.681331
603	+++++	++00	-00	0-	+	-2.665864	-1.354823	-1.000000	0.776278	1.649176	2.595233
604	+++++	++0-	-00	00	+	-2.313643	-2.000000	-0.836038	1.000000	1.663642	2.486039
605	++++0	++00	+00	-+	+	-2.573844	-1.102166	-1.000000	0.378446	1.204642	3.092923
606	++++0	++00	-++	00	+	-2.399160	-1.613509	-0.546856	-0.000000	1.591673	2.967852
607	++++0	++00	-++	00	-	-2.595233	-1.649176	-0.776278	1.000000	1.354823	2.665864
608	++++0	++00	-00	-+	+	-3.019840	-1.279132	-0.580146	1.000000	1.501363	2.377756
609	++++0	++-+	-00	00	+	-2.622037	-2.204911	0.246286	1.000000	1.161018	2.419643
610	++++-	++00	000	-+	+	-3.092923	-1.204642	-0.378446	1.000000	1.102166	2.573844
611	++++-	++00	-0+	00	+	-2.967852	-1.591673	0.000000	0.546856	1.613509	2.399160
612	++++-	+00+	00+	++	0	-2.789793	-1.072915	-1.000000	0.673424	1.447586	2.741697
613	++++-	+00+	00+	-+	0	-3.117006	-1.000000	-0.540158	0.615215	1.549096	2.492853
614	++++-	+00+	000	-+	+	-3.337741	-1.119942	0.000000	1.000000	1.168736	2.288946
615	++++-	+00+	0-+	+0	0	-2.681331	-1.481194	-0.642074	0.311108	2.170086	2.323404
616	++++-	+0-+	-00	00	+	-3.107096	-1.787711	0.526158	1.000000	1.368649	2.000000
617	++++-	00-+	-0+	0+	0	-3.534418	-1.082748	0.407145	1.000000	1.511053	1.698969
618	+++00	++00	-+0	-+	+	-2.486039	-1.663642	-1.000000	0.836038	2.000000	2.313643
619	+++++	++00	0+0	0+	+	-1.618034	-1.618034	-1.449490	0.618034	0.618034	3.449490
620	+++++	++00	0+0	0+	-	-2.251584	-1.544694	-0.618034	-0.280359	1.618034	3.076636
621	+++++	++00	00-	-0	+	-2.328326	-1.618034	-1.145501	0.618034	1.876945	2.596883
622	++++-	++00	0+0	0+	+	-2.572157	-1.618034	-0.557169	0.618034	1.184917	2.944409
623	++++-	++00	00+	-0	+	-2.944409	-1.184917	-0.618034	0.557169	1.618034	2.572157
624	++++-	+00+	0-0	++	0	-2.596883	-1.876945	-0.618034	1.145501	1.618034	2.328326
625	+++00	+0+0	--+	0+	+	-3.076636	-1.618034	0.280359	0.618034	1.544694	2.251584
626	+++00	0-+0	-0+	++	-	-3.449490	-0.618034	-0.618034	1.449490	1.618034	1.618034
627	++++0	+++0	++0	+0	0	-1.000000	-1.000000	-1.000000	-1.000000	0.000000	4.000000
628	++++0	+++0	++0	-0	0	-2.372281	-1.000000	-1.000000	0.000000	1.000000	3.372281
629	++++0	+++0	+-0	-0	0	-2.561553	-1.000000	-1.000000	0.000000	1.561553	3.000000
630	++++0	+++0	--0	-0	0	-3.372281	-1.000000	0.000000	1.000000	1.000000	2.372281
631	++++0	++-0	-+0	+0	0	-3.000000	-1.561553	0.000000	1.000000	1.000000	2.561553
632	++++0	++-0	-+0	-0	0	-2.236068	-2.236068	-0.000000	0.000000	2.236068	2.236068
633	+++0-	--0+	-0+	0+	0	-4.000000	0.000000	1.000000	1.000000	1.000000	1.000000
634	++++0	+++0	++0	0+	0	-1.865307	-1.000000	-1.000000	-0.578441	0.753441	3.690306
635	++++0	+++0	+0+	-0	0	-2.254318	-1.501743	-1.000000	0.391954	1.185439	3.178668
636	++++0	+++0	+00	-0	+	-2.410586	-1.000000	-1.000000	-0.257454	1.550602	3.117439
637	++++0	+++0	0-+	-0	0	-2.990327	-1.000000	-0.720027	0.604349	1.442828	2.663177
638	++++0	++0+	-+0	+0	0	-2.663177	-1.442828	-0.604349	0.720027	1.000000	2.990327
639	++++0	++0+	-+0	-0	0	-2.384032	-1.757071	-0.727541	0.327035	1.896825	2.644784
640	++++0	++0-	-0+	0+	0	-3.117439	-1.550602	0.257454	1.000000	1.000000	2.410586
641	++++0	++-0	-+0	0+	0	-2.644784	-1.896825	-0.327035	0.727541	1.757071	2.384032
642	++++0	0000	--+	-+	+	-3.690306	-0.753441	0.578441	1.000000	1.000000	1.865307
643	+++00	++0-	-0+	0+	+	-3.178668	-1.185439	-0.391954	1.000000	1.501743	2.254318
644	++++0	+++0	+0+	0+	0	-2.000000	-1.000000	-1.000000	-0.561553	1.000000	3.561553
645	++++0	+++0	+0+	0-	0	-2.000000	-1.681331	-1.000000	0.357926	1.000000	3.323404

646	++++0	+++0	000	-+	+	-2.920810	-1.000000	-0.684742	0.684742	1.000000	2.920810
647	++++0	+++0	000	-+	-	-2.489289	-1.000000	-1.000000	-0.289169	2.000000	2.778457
648	++++0	++0+	+0-	-0	0	-2.000000	-2.000000	-1.000000	1.000000	1.000000	3.000000
649	++++0	++0+	-+0	0+	0	-2.292402	-1.732051	-0.602705	-0.000000	1.732051	2.895107
650	++++0	++0+	-+0	0-	0	-2.694213	-1.500591	-0.699602	0.699602	1.500591	2.694213
651	++++0	++0+	-0-	-0	0	-2.895107	-1.732051	-0.000000	0.602705	1.732051	2.292402
652	++++0	++-0	-0+	0+	0	-2.778457	-2.000000	0.289169	1.000000	1.000000	2.489289
653	++++0	++-0	-0+	0-	0	-2.236068	-2.000000	-1.000000	1.000000	2.000000	2.236068
654	++++0	+000	--0	-+	+	-3.323404	-1.000000	-0.357926	1.000000	1.681331	2.000000
655	+++0-	+000	-0+	++	+	-3.000000	-1.000000	-1.000000	1.000000	2.000000	2.000000
656	+++0-	000+	-++	++	0	-3.561553	-1.000000	0.561553	1.000000	1.000000	2.000000
657	++++0	++0+	0+0	+0	+	-2.471481	-1.338712	0.000000	0.000000	0.349326	3.460867
658	++++0	++0+	0+0	+0	-	-2.000000	-1.414214	-1.236068	-0.000000	1.414214	3.236068
659	++++0	++0+	0+0	-0	+	-2.294301	-1.727831	-0.753653	0.299343	1.505449	2.970994
660	++++0	++0+	0+0	-0	-	-2.237472	-1.537615	-1.113960	0.195466	1.937218	2.756363
661	++++0	++0+	00-	0-	+	-2.689994	-1.662508	-0.000000	0.000000	1.662508	2.689994
662	++++0	++0-	00+	0+	+	-2.82842	-1.41421	0.00000	0.00000	1.41421	2.828427
663	++++0	+00+	0-+	0+	+	-2.933522	-1.180868	-0.000000	0.000000	1.180868	2.933522
664	+++0	+00+	0-+	0-	+	-2.613126	-1.414214	-1.082392	1.082392	1.414214	2.613126
665	++++0	+00+	0--	0+	+	-2.449490	-2.000000	-0.000000	0.000000	2.000000	2.449490
666	++++0	+00-	0-+	0+	+	-2.970994	-1.505449	-0.299343	0.753653	1.727831	2.294301
667	++++0	+0-+	-00	++	0	-2.288246	-2.000000	-0.874032	0.874032	2.000000	2.288246
668	++++0	000+	0-+	-+	+	-3.460867	-0.349326	0.000000	0.000000	1.338712	2.471481
669	++++0	000-	0-+	-+	+	-3.236068	-1.414214	0.000000	1.236068	1.414214	2.000000
670	++00	+0+-	-0+	++	0	-2.756363	-1.937218	-0.195466	1.113960	1.537615	2.237472
671	++++0	++0+	0++	+0	0	-2.000000	-1.581807	-0.798880	-0.000000	0.912755	3.467932
672	+++0	++0+	0++	00	-	-2.000000	-1.514137	-1.414214	0.428007	1.414214	3.086130
673	++++0	++0+	0+0	+-	0	-2.481194	-1.236068	-0.688892	0.000000	1.170086	3.236068
674	++++0	++0+	0+0	-+	0	-2.204823	-1.501744	-0.792354	-0.284746	1.786490	2.997177
675	++++0	++0+	0+0	--	0	-2.339419	-1.758673	-0.940571	0.718754	1.567463	2.752447
676	++++0	++0+	0+-	00	+	-2.657429	-1.482277	-0.528046	0.591191	1.088701	2.987861
677	++++0	++0+	0+-	-0	0	-2.214320	-2.000000	-0.732051	0.539189	1.675131	2.732051
678	++++0	++0+	000	--	+	-2.261802	-2.000000	-0.339877	-0.000000	2.000000	2.601679
679	++++0	++00	0+0	-+	+	-2.572581	-1.414214	-0.897478	0.604608	1.414214	2.865451
680	++++0	++00	0+0	-+	-	-2.000000	-1.675131	-0.732051	-0.539189	2.214320	2.732051
681	++++0	++00	0-+	-0	+	-2.987861	-1.088701	-0.591191	0.528046	1.482277	2.657429
682	++++0	++0-	00+	-+	0	-2.806378	-1.664717	-0.296418	0.845831	1.305147	2.616535
683	++++0	++0-	000	-+	+	-2.865451	-1.414214	-0.604608	0.897478	1.414214	2.572581
684	++++0	+00+	0-+	+0	+	-2.616535	-1.305147	-0.845831	0.296418	1.664717	2.806378
685	++++0	+00+	0--	+0	+	-2.000000	-2.000000	-1.170086	0.688892	2.000000	2.481194
686	++++0	+000	0-+	+-	+	-2.752447	-1.567463	-0.718754	0.940571	1.758673	2.339419
687	++++0	+000	0-+	-+	+	-3.236068	-1.170086	0.000000	0.688892	1.236068	2.481194
688	+++0	+0-+	-00	+0	+	-2.601679	-2.000000	0.000000	0.339877	2.000000	2.261802
689	+++0	+0-+	-0-	+0	0	-2.481194	-2.000000	-0.688892	1.170086	2.000000	2.000000
690	++++0	+0-+	-0-	00	+	-2.732051	-2.214320	0.539189	0.732051	1.675131	2.000000
691	++++0	+0-0	-00	-+	+	-3.086130	-1.414214	-0.428007	1.414214	1.514137	2.000000
692	++++0	00-+	-00	-+	+	-3.467932	-0.912755	0.000000	0.798880	1.581807	2.000000
693	+++00	+0+-	-0+	0+	+	-2.997177	-1.786490	0.284746	0.792354	1.501744	2.204823
694	+++00	+00-	-0+	++	+	-2.732051	-1.675131	-0.539189	0.732051	2.000000	2.214320
695	++++0	+++0	+0+	00	+	-2.190688	-1.187628	-1.000000	0.150544	0.729919	3.497854
696	++++0	+++0	+0+	00	-	-1.776761	-1.508067	-1.000000	-0.528762	1.483773	3.329817
697	++++0	+++0	00+	-+	0	-2.788459	-1.000000	-0.684117	0.129009	1.363528	2.980038
698	++++0	+++0	00+	-0	-	-2.516280	-1.429246	-1.000000	0.562023	1.599228	2.784276
699	++++0	++0+	+00	0-	+	-2.240983	-1.439808	-1.000000	0.065970	1.516112	3.098709
700	++++0	++0+	-+0	00	+	-2.485441	-1.847733	-0.186500	0.315524	1.254522	2.949628
701	++++0	++0+	-+0	00	-	-2.315527	-1.503877	-1.338715	0.816677	1.673976	2.667465

702	++++0	++0+	-00	0-	+	-2.680249	-1.907915	-0.084473	0.590058	1.547785	2.534794
703	++++0	++00	-+0	0+	+	-2.401660	-1.773196	-0.764156	0.687783	1.420507	2.830722
704	++++0	++00	-+0	0+	-	-2.534794	-1.547785	-0.590058	0.084473	1.907915	2.680249
705	++++0	++00	-0+	0+	+	-2.980038	-1.363528	-0.129009	0.684117	1.000000	2.788459
706	++++0	++00	-0+	0+	-	-2.784276	-1.599228	-0.562023	1.000000	1.429246	2.516280
707	++++0	++00	-0+	0-	+	-2.341130	-1.672607	-1.000000	0.443666	2.082690	2.487381
708	++++0	++00	-0+	-0	+	-2.949628	-1.254522	-0.315524	0.186500	1.847733	2.485441
709	++++0	++0-	-0+	00	+	-2.830722	-1.420507	-0.687783	0.764156	1.773196	2.401660
710	++++0	++-0	-0+	00	+	-2.487381	-2.082690	-0.443666	1.000000	1.672607	2.341130
711	+++00	++0-	-+0	0+	+	-2.667465	-1.673976	-0.816677	1.338715	1.503877	2.315527
712	+++00	+0+-	0-+	+0	+	-3.098709	-1.516112	-0.065970	1.000000	1.439808	2.240983
713	+++00	00+0	-++	++	-	-3.497854	-0.729919	-0.150544	1.000000	1.187628	2.190688
714	+++00	00+0	--+	-+	+	-3.329817	-1.483773	0.528762	1.000000	1.508067	1.776761
715	++++0	+00+	00+	++	+	-2.372281	-1.000000	-1.000000	0.000000	1.000000	3.372281
716	++++0	+00+	00+	++	-	-2.363152	-1.453820	-1.000000	0.239937	1.668144	2.908891
717	++++0	+00+	00+	+-	-	-1.561553	-1.561553	-1.000000	-1.000000	2.561553	2.561553
718	++++0	+00+	00+	-+	+	-3.000000	-1.000000	-0.000000	-0.000000	1.000000	3.000000
719	++++0	+00+	00-	++	-	-2.561553	-1.561553	-1.000000	1.000000	1.561553	2.561553
720	++++0	+00+	00-	-+	+	-2.908891	-1.668144	-0.239937	1.000000	1.453820	2.363152
721	++++0	00-+	-0+	0+	+	-3.372281	-1.000000	-0.000000	1.000000	1.000000	2.372281
722	+++00	++00	0+-	-+	+	-2.561553	-1.561553	-1.000000	1.000000	1.561553	2.561553
723	+++00	+0+-	-00	++	+	-2.236068	-2.236068	-0.000000	0.000000	2.236068	2.236068
724	+++0-	00-+	-+0	+0	+	-2.561553	-2.561553	1.000000	1.000000	1.561553	1.561553
725	++++0	++0+	0+0	0+	+	-2.246980	-1.575773	-0.554958	0.187284	0.801938	3.388490
726	++++0	++0+	0+0	0+	-	-1.692021	-1.532089	-1.356896	-0.347296	1.879385	3.048917
727	++++0	++0+	0+0	0-	+	-2.488494	-1.474250	-0.607616	0.103101	1.434894	3.032365
728	++++0	++0+	00-	-0	+	-2.246980	-2.181943	-0.554958	0.801938	1.593579	2.588364
729	++++0	++00	0+-	0+	+	-2.288926	-1.559995	-1.093026	0.540556	1.441022	2.960369
730	++++0	++00	00+	-+	+	-2.912229	-1.198691	-0.286462	0.286462	1.198691	2.912229
731	++++0	++00	00+	--	+	-2.259311	-1.420612	-1.156883	0.047235	2.212076	2.577495
732	++++0	++00	00-	-+	+	-2.569900	-1.501080	-1.068820	1.068820	1.501080	2.569900
733	++++0	++0-	00+	-0	+	-2.714479	-1.532089	-0.347296	0.143277	1.879385	2.571201
734	++++0	+00+	0-+	++	0	-2.313052	-1.674113	-0.702019	0.073928	1.716636	2.898620
735	++++0	+00+	0-0	++	-	-2.490864	-1.834243	-0.656620	0.656620	1.834243	2.490864
736	++++0	+00+	0-0	+-	+	-2.377203	-1.651093	-1.273891	1.273891	1.651093	2.377203
737	++++0	+00+	0-0	-+	+	-3.032365	-1.434894	-0.103101	0.607616	1.474250	2.488494
738	++++0	+0-+	-00	0+	+	-2.898620	-1.716636	-0.073928	0.702019	1.674113	2.313052
739	+++00	+0+0	0-+	++	+	-2.571201	-1.879385	-0.143277	0.347296	1.532089	2.714479
740	+++00	+0+0	0-+	+-	+	-2.960369	-1.441022	-0.540556	1.093026	1.559995	2.288926
741	+++00	+0+-	0-0	++	+	-2.588364	-1.593579	-0.801938	0.554958	2.181943	2.246980
742	+++00	+0+-	-0+	+0	+	-2.577495	-2.212076	-0.047235	1.156883	1.420612	2.259311
743	+++00	00++	-++	+0	-	-3.388490	-0.801938	-0.187284	0.554958	1.575773	2.246980
744	+++00	00+-	-0+	-+	+	-3.048917	-1.879385	0.347296	1.356896	1.532089	1.692021
745	++++0	+++0	00+	0+	+	-2.717741	-1.000000	0.000000	0.000000	0.325397	3.392344
746	++++0	+++0	00+	0+	-	-2.205890	-1.468824	-1.000000	0.000000	1.612744	3.061971
747	++++0	++-0	00+	0+	+	-2.457896	-1.869925	-0.000000	0.000000	1.423267	2.904555
748	++++0	++-0	00+	0-	+	-2.278414	-1.561553	-1.317431	0.704624	1.891220	2.561553
749	++++0	+00+	--0	0+	+	-2.904555	-1.423267	-0.000000	-0.000000	1.869925	2.457896
750	+++00	+0+-	0-+	++	0	-2.561553	-1.891220	-0.704624	1.317431	1.561553	2.278414
751	+++00	00++	0++	++	-	-3.392344	-0.325397	-0.000000	0.000000	1.000000	2.717741
752	+++00	00+-	-++	++	0	-3.061971	-1.612744	-0.000000	1.000000	1.468824	2.205890
753	+++++	++++	++0	00	0	-2.000000	-1.292402	-1.000000	0.000000	0.397295	3.895107
754	+++++	++++	+00	0-	0	-2.526904	-1.132959	-1.000000	-0.000000	1.217728	3.442136
755	+++++	++++	000	0-	-	-3.112475	-1.000000	-0.308608	-0.000000	1.360754	3.060329
756	+++++	+++0	++-	00	0	-2.000000	-1.645751	-1.000000	-0.000000	1.000000	3.645751
757	+++++	+++0	+00	-+	0	-2.274048	-1.631376	-1.000000	0.252268	1.259398	3.393758

758	+++++ +++0 +00 -- 0	-2.668814	-1.272421	-1.000000	0.237380	1.597305	3.106549
759	+++++ +++0 0-0 -0 +	-2.932684	-1.480042	-0.184973	0.000000	1.748755	2.848944
760	+++++ +++- +00 -0 0	-2.249141	-2.000000	-1.000000	1.000000	1.146365	3.102775
761	+++++ +++- 00+ 0+ 0	-2.688402	-1.622285	-0.217966	0.000000	1.305464	3.223188
762	+++++ +++- 00+ 00 -	-2.342923	-2.000000	-0.470683	0.000000	1.813607	3.000000
763	+++++ +++- 000 -+ 0	-2.705836	-1.922700	-0.328864	0.510235	1.621693	2.825472
764	+++++ +++- 0-0 -0 0	-2.917286	-2.000000	0.000000	1.000000	1.319551	2.597735
765	+++++ ++00 -+0 +- 0	-2.848944	-1.748755	0.000000	0.184973	1.480042	2.932684
766	+++++ ++00 -+0 -+ 0	-2.359765	-1.741443	-1.000000	0.161906	2.174420	2.764882
767	+++++ ++00 -+- -0 0	-2.732051	-1.561553	-1.000000	0.732051	2.000000	2.561553
768	+++++ ++0- -00 -+ 0	-2.764882	-2.174420	-0.161906	1.000000	1.741443	2.359765
769	++++0 ++00 -++ ++ 0	-3.060329	-1.360754	0.000000	0.308608	1.000000	3.112475
770	++++0 ++00 -++ +- 0	-2.597735	-1.319551	-1.000000	-0.000000	2.000000	2.917286
771	++++0 ++00 -++ -+ 0	-2.825472	-1.621693	-0.510235	0.328864	1.922700	2.705836
772	++++0 ++-+ -++ 00 0	-2.561553	-2.000000	-0.732051	1.000000	1.561553	2.732051
773	++++0 ++-+ -+- 00 0	-3.000000	-1.813607	0.000000	0.470683	2.000000	2.342923
774	++++- ++00 -++ 0+ 0	-3.106549	-1.597305	-0.237380	1.000000	1.272421	2.668814
775	++++- ++00 -0+ -+ 0	-3.393758	-1.259398	-0.252268	1.000000	1.631376	2.274048
776	++++- ++0- 00+ 0+ +	-3.223188	-1.305464	-0.000000	0.217966	1.622285	2.688402
777	++++- +00+ 0-+ 0+ +	-3.442136	-1.217728	0.000000	1.000000	1.132959	2.526904
778	++++- +00+ 0-+ 0- +	-3.102775	-1.146365	-1.000000	1.000000	2.000000	2.249141
779	++++- +000 --+ 0+ +	-3.645751	-1.000000	0.000000	1.000000	1.645751	2.000000
780	++++- 000+ 0-+ -+ +	-3.895107	-0.397295	-0.000000	1.000000	1.292402	2.000000
781	+++++ ++++ +00 00 +	-1.828427	-1.000000	-1.000000	-1.000000	1.000000	3.828427
782	+++++ ++++ +00 00 -	-2.603875	-1.000000	-1.000000	0.109916	1.000000	3.493959
783	+++++ ++++ 00- -0 0	-3.000000	-1.000000	-1.000000	1.000000	1.000000	3.000000
784	+++++ +++- +00 00 +	-2.294698	-1.551420	-1.000000	0.058539	1.428496	3.359082
785	+++++ +++- 00+ -0 0	-2.593479	-2.069072	-0.463128	1.000000	1.266691	2.858988
786	+++++ ++00 +00 -- +	-2.236068	-1.000000	-1.000000	-1.000000	2.236068	3.000000
787	+++++ ++00 -+- 00 +	-2.797933	-1.473626	-1.000000	1.000000	1.473626	2.797933
788	+++++ ++-- -00 00 +	-2.236068	-2.236068	-1.000000	1.000000	2.236068	2.236068
789	++++- ++00 +00 -+ +	-3.000000	-1.000000	-1.000000	1.000000	1.000000	3.000000
790	++++- ++00 -++ 00 +	-2.709275	-1.903212	-0.193937	0.193937	1.903212	2.709275
791	++++- ++00 -00 -+ +	-3.359082	-1.428496	-0.058539	1.000000	1.551420	2.294698
792	++++- ++-+ -00 00 +	-3.000000	-2.236068	1.000000	1.000000	1.000000	2.236068
793	++++- +00+ 00+ ++ +	-3.000000	-1.000000	-1.000000	1.000000	1.000000	3.000000
794	++++- +00+ 00+ ++ -	-2.858988	-1.266691	-1.000000	0.463128	2.069072	2.593479
795	++++- +00+ 00+ -+ +	-3.493959	-1.000000	-0.109916	1.000000	1.000000	2.603875
796	++++- 00-+ -0+ 0+ +	-3.828427	-1.000000	1.000000	1.000000	1.000000	1.828427
797	+++++ +++0 ++0 +0 0	-1.534070	-1.000000	-1.000000	-1.000000	0.482696	4.051374
798	+++++ +++0 ++0 -0 0	-2.414214	-1.449490	-1.000000	0.414214	1.000000	3.449490
799	+++++ +++0 +-0 -0 0	-2.630377	-1.357880	-1.000000	0.279640	1.621662	3.086955
800	+++++ +++0 --0 -0 0	-3.410355	-1.375019	0.252589	1.000000	1.000000	2.532785
801	+++++ ++0- -0+ 0+ 0	-3.000000	-1.903212	0.193937	1.000000	1.000000	2.709275
802	+++++ ++0- -0+ 0- 0	-2.414214	-2.236068	-0.414214	0.414214	2.236068	2.414214
803	++++0 +++0 ++0 -+ 0	-2.532785	-1.000000	-1.000000	-0.252589	1.375019	3.410355
804	++++0 +++0 +-0 -0 +	-2.709275	-1.000000	-1.000000	-0.193937	1.903212	3.000000
805	++++0 +++0 --+ -0 0	-3.449490	-1.000000	-0.414214	1.000000	1.449490	2.414214
806	++++0 ++-+ -+0 +0 0	-3.086955	-1.621662	-0.279640	1.000000	1.357880	2.630377
807	++++- 0000 --+ -+ +	-4.051374	-0.482696	1.000000	1.000000	1.000000	1.534070
808	+++++ +++0 ++0 0+ 0	-1.783150	-1.475815	-1.000000	-0.379146	0.779159	3.858951
809	+++++ +++0 ++0 00 -	-2.217915	-1.234834	-1.000000	-0.277460	1.082214	3.647995
810	+++++ +++0 +0+ 0- 0	-2.310996	-1.597868	-1.000000	0.345540	1.147036	3.416288
811	+++++ +++0 +00 -0 +	-2.279002	-1.494024	-1.000000	-0.162922	1.641624	3.294324
812	+++++ +++0 +00 -0 -	-2.685268	-1.262462	-1.000000	0.314933	1.490280	3.142516
813	+++++ +++0 +0- -0 0	-2.433390	-1.752872	-1.000000	0.721454	1.361111	3.103697

814	+++++ +++0 000 -+ +	-2.726908	-1.479087	-0.643264	0.591571	1.000000	3.257688
815	+++++ +++0 000 -+ -	-2.586431	-1.569350	-0.482281	-0.266315	1.943498	2.960880
816	+++++ +++0 0-+ -0 0	-2.919786	-1.524320	-0.466939	0.601338	1.353333	2.956375
817	+++++ +++0 0-0 -- 0	-3.167039	-1.374853	-0.387449	0.704043	1.609025	2.616273
818	+++++ ++00 +0- 0- +	-2.249645	-1.311979	-1.000000	-0.588911	2.024369	3.126167
819	+++++ ++00 -+0 +0 -	-2.641350	-2.060404	-0.293179	1.000000	1.072178	2.922754
820	+++++ ++00 -+0 -0 +	-2.367681	-1.588252	-1.298946	0.497747	1.821173	2.935960
821	+++++ ++00 -+0 -0 -	-2.672577	-1.890707	-0.472869	0.392716	2.072752	2.570686
822	+++++ ++00 -0- 0- +	-3.103697	-1.361111	-0.721454	1.000000	1.752872	2.433390
823	+++++ ++0- 000 -+ +	-2.651646	-1.879937	-0.696965	0.811935	1.690434	2.726178
824	+++++ ++0- 00- -+ 0	-2.399013	-2.127191	-0.874508	1.000000	1.831643	2.569069
825	+++++ ++0- -0+ 00 -	-2.722402	-2.275443	0.179250	0.632243	1.764356	2.421997
826	+++++ ++0- -00 0- +	-2.569069	-1.831643	-1.000000	0.874508	2.127191	2.399013
827	++++0 +++0 +0+ -+ 0	-2.465398	-1.160735	-1.000000	-0.212212	1.464007	3.374338
828	++++0 +++0 +0+ -- 0	-2.433390	-1.752872	-1.000000	0.721454	1.361111	3.103697
829	++++0 +++0 +00 -+ +	-2.778982	-1.084536	-1.000000	0.427630	1.198233	3.237655
830	++++0 +++0 0-+ -0 +	-3.257688	-1.000000	-0.591571	0.643264	1.479087	2.726908
831	++++0 +++- 000 -+ +	-3.237655	-1.198233	-0.427630	1.000000	1.084536	2.778982
832	++++0 ++0+ -++ +0 0	-2.616273	-1.609025	-0.704043	0.387449	1.374853	3.167039
833	++++0 ++0+ -+0 +- 0	-2.956375	-1.353333	-0.601338	0.466939	1.524320	2.919786
834	++++0 ++0+ -+0 -+ 0	-2.421997	-1.764356	-0.632243	-0.179250	2.275443	2.722402
835	++++0 ++00 -+0 -+ +	-2.726178	-1.690434	-0.811935	0.696965	1.879937	2.651646
836	++++0 ++00 --+ -0 +	-3.416288	-1.147036	-0.345540	1.000000	1.597868	2.310996
837	++++0 ++0- -++ 0+ 0	-3.142516	-1.490280	-0.314933	1.000000	1.262462	2.685268
838	++++0 ++0- -0+ -+ 0	-3.294324	-1.641624	0.162922	1.000000	1.494024	2.279002
839	++++0 ++-+ -+0 0+ 0	-2.570686	-2.072752	-0.392716	0.472869	1.890707	2.672577
840	++++0 ++-+ -+0 00 +	-2.960880	-1.943498	0.266315	0.482281	1.569350	2.586431
841	++++0 ++-+ -+0 0- 0	-2.935960	-1.821173	-0.497747	1.298946	1.588252	2.367681
842	++++0 ++-- -0+ 0+ 0	-3.126167	-2.024369	0.588911	1.000000	1.311979	2.249645
843	++++0 +000 --+ ++ +	-2.922754	-1.072178	-1.000000	0.293179	2.060404	2.641350
844	++++0 +000 --+ -+ +	-3.647995	-1.082214	0.277460	1.000000	1.234834	2.217915
845	++++- ++00 -0+ 0+ +	-3.374338	-1.464007	0.212212	1.000000	1.160735	2.465398
846	++++- +00+ 0-+ +0 +	-3.103697	-1.361111	-0.721454	1.000000	1.752872	2.433390
847	+++0- 000+ -++ ++ -	-3.858951	-0.779159	0.379146	1.000000	1.475815	1.783150
848	+++++ +++0 00+ 0+ +	-2.483612	-1.282824	-0.000000	-0.000000	0.000000	3.766435
849	+++++ +++0 00+ 0+ -	-2.000000	-2.000000	-0.813607	-0.000000	1.470683	3.342923
850	+++++ +++0 00+ 0- -	-2.620740	-1.457206	-0.761958	-0.000000	1.821892	3.018013
851	+++++ ++00 0+- -+ 0	-2.000000	-2.000000	-1.342923	0.529317	2.000000	2.813607
852	++++0 +++- 00+ 0+ +	-3.126020	-1.108151	-0.000000	0.000000	1.108151	3.126020
853	++++0 ++-+ 00+ 0+ +	-2.710387	-1.654509	-0.000000	0.000000	1.089232	3.275664
854	++++0 ++-+ 00+ 0- +	-2.754586	-1.613007	-0.900259	0.900259	1.613007	2.754586
855	++++0 ++-- 00+ 0+ +	-2.645751	-2.000000	0.000000	0.000000	2.000000	2.645751
856	++++0 +00+ --+ 0+ +	-3.275664	-1.089232	-0.000000	0.000000	1.654509	2.710387
857	++++0 +00- --+ 0+ +	-3.342923	-1.470683	0.000000	0.813607	2.000000	2.000000
858	++++- ++-0 00+ 0+ +	-3.018013	-1.821892	-0.000000	0.761958	1.457206	2.620740
859	++++- +0-+ -00 ++ 0	-2.813607	-2.000000	-0.529317	1.342923	2.000000	2.000000
860	+++00 0-++ -++ ++ 0	-3.766435	-0.000000	0.000000	0.000000	1.282824	2.483612
861	+++++ +++0 +0+ 00 +	-2.000000	-1.489289	-1.000000	-0.000000	0.710831	3.778457
862	+++++ +++0 +0+ 00 -	-2.210184	-1.414214	-1.000000	-0.260711	1.414214	3.470896
863	+++++ +++0 +00 0- +	-2.000000	-1.610500	-1.000000	-0.439855	1.670843	3.379512
864	+++++ +++0 00+ -+ 0	-2.606801	-1.497905	-0.488968	-0.000000	1.254998	3.338676
865	+++++ +++0 00+ -0 -	-2.709769	-1.597233	-0.747739	0.543116	1.522828	2.988796
866	+++++ +++0 00- -+ 0	-2.517131	-1.861700	-0.820811	0.650279	1.661011	2.888352
867	+++++ ++00 +0- -0 +	-2.000000	-2.000000	-1.000000	-0.000000	2.000000	3.000000
868	+++++ ++00 0+0 -+ +	-2.286571	-1.475353	-1.414214	0.554520	1.414214	3.207403
869	+++++ ++00 0+0 -+ -	-2.278775	-1.614613	-1.000000	-0.173848	2.126463	2.940772

870	+++++	++00	0+-	0-	+	-2.747470	-1.517346	-0.677690	0.279472	1.723341	2.939693
871	+++++	++00	0+-	-0	+	-2.272443	-2.000000	-1.157293	1.000000	1.629463	2.800272
872	+++++	++00	-+0	0+	-	-2.489289	-2.000000	-0.289169	-0.000000	2.000000	2.778457
873	+++++	++00	-0-	-0	+	-2.819213	-1.414214	-1.242745	1.414214	1.671897	2.390060
874	+++++	++0-	-00	-0	+	-2.681331	-2.000000	-0.642074	1.000000	2.000000	2.323404
875	++++0	+++-	+0+	00	+	-2.633649	-1.196674	-1.000000	0.327498	1.158963	3.343862
876	++++0	+++-	00+	-+	0	-3.099474	-1.260979	-0.494072	0.463627	1.602093	2.788805
877	++++0	++0+	-++	00	+	-2.277427	-2.000000	-0.386509	-0.000000	1.386509	3.277427
878	++++0	++0+	-++	00	-	-2.390060	-1.671897	-1.414214	1.242745	1.414214	2.819213
879	++++0	++0+	-+-	00	+	-2.939693	-1.723341	-0.279472	0.677690	1.517346	2.747470
880	++++0	++00	+0-	-+	+	-2.732051	-1.414214	-1.000000	0.732051	1.414214	3.000000
881	++++0	++00	-++	0+	+	-2.788805	-1.602093	-0.463627	0.494072	1.260979	3.099474
882	++++0	++00	-++	0+	-	-2.988796	-1.522828	-0.543116	0.747739	1.597233	2.709769
883	++++0	++00	-+-	0+	+	-2.323404	-2.000000	-1.000000	0.642074	2.000000	2.681331
884	++++0	++00	-0+	-+	+	-3.338676	-1.254998	-0.000000	0.488968	1.497905	2.606801
885	++++0	++00	-0-	-+	+	-2.800272	-1.629463	-1.000000	1.157293	2.000000	2.272443
886	++++0	++0-	-++	00	+	-2.664171	-1.466318	-1.000000	0.371066	2.000000	2.759423
887	++++0	++0-	-00	-+	+	-3.207403	-1.414214	-0.554520	1.414214	1.475353	2.286571
888	++++0	++-+	-0+	00	+	-2.629731	-2.223392	-0.189127	1.000000	1.337248	2.705003
889	++++0	++-+	-00	0-	+	-2.940772	-2.126463	0.173848	1.000000	1.614613	2.278775
890	++++0	+00+	--+	++	0	-2.705003	-1.337248	-1.000000	0.189127	2.223392	2.629731
891	++++0	+0-0	--+	0+	+	-3.277427	-1.386509	0.000000	0.386509	2.000000	2.277427
892	++++-	++00	0+0	-+	+	-3.000000	-1.414214	-0.732051	1.000000	1.414214	2.732051
893	++++-	++00	00+	-+	+	-3.343862	-1.158963	-0.327498	1.000000	1.196674	2.633649
894	++++-	++00	-+0	0+	+	-2.759423	-2.000000	-0.371066	1.000000	1.466318	2.664171
895	++++-	+00+	0-+	++	0	-2.888352	-1.661011	-0.650279	0.820811	1.861700	2.517131
896	++++-	+00+	0-0	-+	+	-3.470896	-1.414214	0.260711	1.000000	1.414214	2.210184
897	++++-	+0-+	-00	+0	+	-3.000000	-2.000000	0.000000	1.000000	2.000000	2.000000
898	++++-	+0-+	-00	0+	+	-3.379512	-1.670843	0.439855	1.000000	1.610500	2.000000
899	+++00	+0+0	--+	++	+	-2.778457	-2.000000	0.000000	0.289169	2.000000	2.489289
900	+++00	0-++	-+0	++	-	-3.778457	-0.710831	-0.000000	1.000000	1.489289	2.000000
901	++++0	+++0	++0	0+	+	-2.279452	-1.000000	-1.000000	-0.000000	0.459363	3.820089
902	++++0	+++0	++0	0+	-	-1.645751	-1.414214	-1.000000	-1.000000	1.414214	3.645751
903	++++0	+++0	+0+	-0	+	-2.507903	-1.414214	-1.000000	0.244360	1.414214	3.263543
904	++++0	+++0	+0+	-0	-	-2.409502	-1.495466	-1.000000	-0.000000	1.771119	3.133850
905	++++0	+++0	0-+	-+	0	-3.190310	-1.000000	-0.273269	0.000000	1.605101	2.858478
906	++++0	+++0	0-+	--	0	-2.917286	-1.414214	-1.000000	1.319551	1.414214	2.597735
907	++++0	++0+	-+0	+0	+	-2.858478	-1.605101	0.000000	0.273269	1.000000	3.190310
908	++++0	++0+	-+0	+0	-	-2.597735	-1.414214	-1.319551	1.000000	1.414214	2.917286
909	++++0	++0+	-+0	-0	+	-2.342923	-2.177410	-0.470683	0.321637	1.813607	2.855773
910	++++0	++0+	-+0	-0	-	-2.503504	-1.561553	-1.264377	0.576713	2.191169	2.561553
911	++++0	++0+	-0-	0-	+	-3.133850	-1.771119	0.000000	1.000000	1.495466	2.409502
912	++++0	++0-	-0+	0+	+	-3.263543	-1.414214	-0.244360	1.000000	1.414214	2.507903
913	++++0	++-0	-+0	0+	+	-2.561553	-2.191169	-0.576713	1.264377	1.561553	2.503504
914	++++0	++-0	-+0	0+	-	-2.855773	-1.813607	-0.321637	0.470683	2.177410	2.342923
915	++++0	000+	--+	-+	+	-3.820089	-0.459363	0.000000	1.000000	1.000000	2.279452
916	++++0	000-	--+	-+	+	-3.645751	-1.414214	1.000000	1.000000	1.414214	1.645751
917	++++0	++0+	0++	++	0	-2.230725	-1.618034	-0.482859	-0.000000	0.618034	3.713585
918	++++0	++0+	0++	+0	-	-2.243349	-1.491934	-1.147416	-0.000000	1.574004	3.308696
919	++++0	++0+	0++	0-	-	-2.332749	-1.618034	-1.348414	0.618034	1.714715	2.966448
920	++++0	++0+	0+0	+-	+	-2.860806	-1.254102	-0.302776	0.000000	1.114908	3.302776
921	++++0	++0+	0+0	-+	+	-2.646317	-1.520941	-0.734972	0.294880	1.454331	3.153019
922	++++0	++0+	0+0	-+	-	-2.000000	-1.472834	-1.302776	-0.462598	2.302776	2.935432
923	++++0	++0+	0+0	--	+	-2.239254	-2.000000	-0.824788	0.188279	2.000000	2.875764
924	++++0	++0+	0+-	0-	+	-2.935432	-1.472834	-0.462598	0.462598	1.472834	2.935432
925	++++0	++0+	0+-	-+	0	-2.391382	-1.791288	-0.772866	-0.000000	2.164248	2.791288

926	++++0	++0+	0+-	-0	+	-2.632146	-1.899559	-0.749670	1.069676	1.439490	2.772208
927	++++0	++00	0+-	-+	+	-2.735103	-1.552340	-1.053306	1.053306	1.552340	2.735103
928	++++0	++00	0-+	-+	+	-3.302776	-1.114908	-0.000000	0.302776	1.254102	2.860806
929	++++0	++0-	00+	-+	+	-3.153019	-1.454331	-0.294880	0.734972	1.520941	2.646317
930	++++0	+00+	0-+	++	+	-2.687400	-1.431627	-0.618034	-0.000000	1.618034	3.119027
931	++++0	+00+	0-+	+-	+	-2.772208	-1.439490	-1.069676	0.749670	1.899559	2.632146
932	++++0	+00+	0--	++	-	-2.966448	-1.714715	-0.618034	1.348414	1.618034	2.332749
933	++++0	+00+	0--	+-	+	-2.302776	-2.000000	-1.302776	1.302776	2.000000	2.302776
934	++++0	+00+	0--	-+	+	-2.875764	-2.000000	-0.188279	0.824788	2.000000	2.239254
935	++++0	+00-	0-+	-+	+	-3.308696	-1.574004	0.000000	1.147416	1.491934	2.243349
936	++++0	+0-+	-0+	++	0	-2.618034	-2.000000	-0.381966	0.381966	2.000000	2.618034
937	++++0	+0-+	-0+	0+	+	-3.119027	-1.618034	-0.000000	0.618034	1.431627	2.687400
938	++++0	00-+	-0+	-+	+	-3.713585	-0.618034	-0.000000	0.482859	1.618034	2.230725
939	+++00	+0+-	-0+	++	+	-2.791288	-2.164248	-0.000000	0.772866	1.791288	2.391382
940	+++0-	+0-+	-+0	++	0	-2.935432	-2.302776	0.462598	1.302776	1.472834	2.000000
941	++++0	+++0	+0+	0+	+	-2.414214	-1.000000	-1.000000	0.267949	0.414214	3.732051
942	++++0	+++0	+0+	0+	-	-1.732051	-1.449490	-1.000000	-1.000000	1.732051	3.449490
943	++++0	+++0	+0+	0-	+	-2.294698	-1.551420	-1.000000	0.058539	1.428496	3.359082
944	++++0	+++0	00+	-+	+	-3.146264	-1.000000	-0.317837	0.317837	1.000000	3.146264
945	++++0	+++0	00+	-+	-	-2.552397	-1.417093	-1.000000	0.047037	2.037182	2.885272
946	++++0	+++0	00-	-+	+	-2.797933	-1.473626	-1.000000	1.000000	1.473626	2.797933
947	++++0	++0+	+0-	-0	+	-2.414214	-1.732051	-1.000000	0.414214	1.732051	3.000000
948	++++0	++0+	-+0	0+	+	-2.273073	-2.170086	-0.311108	0.140435	1.481194	3.132637
949	++++0	++0+	-+0	0+	-	-2.348894	-1.481194	-1.395932	0.311108	2.170086	2.744826
950	++++0	++0+	-+0	0-	+	-2.866198	-1.655442	-0.210756	0.210756	1.655442	2.866198
951	++++0	++0+	-0-	-0	+	-2.744826	-2.170086	-0.311108	1.395932	1.481194	2.348894
952	++++0	++0-	-+0	0+	+	-2.675131	-1.539189	-1.214320	1.214320	1.539189	2.675131
953	++++0	++0-	-0+	-0	+	-3.132637	-1.481194	-0.140435	0.311108	2.170086	2.273073
954	++++0	++-0	-0+	0+	+	-2.885272	-2.037182	-0.047037	1.000000	1.417093	2.552397
955	++++0	++-0	-0+	0-	+	-2.236068	-2.236068	-1.000000	1.000000	2.236068	2.236068
956	++++0	+00+	--0	-+	+	-3.359082	-1.428496	-0.058539	1.000000	1.551420	2.294698
957	+++00	+0+-	0-+	++	+	-3.000000	-1.732051	-0.414214	1.000000	1.732051	2.414214
958	+++00	00++	-++	++	-	-3.732051	-0.414214	-0.267949	1.000000	1.000000	2.414214
959	+++0-	00-+	-++	++	0	-3.449490	-1.732051	1.000000	1.000000	1.449490	1.732051
960	+++++	++++	+++	00	0	-2.162278	-1.000000	-1.000000	-0.000000	-0.000000	4.162278
961	+++++	++++	++-	00	0	-2.281920	-1.608912	-1.000000	-0.000000	1.171815	3.719018
962	+++++	++++	+00	--	0	-2.931630	-1.000000	-1.000000	0.000000	1.676810	3.254820
963	+++++	+++-	+00	-+	0	-2.561553	-1.855773	-1.000000	0.678363	1.561553	3.177410
964	+++++	+++-	00+	0+	+	-3.000000	-1.449490	-0.000000	0.000000	1.000000	3.449490
965	+++++	+++-	00+	0+	-	-2.612067	-1.888896	-0.537518	0.000000	1.959281	3.079200
966	+++++	+++-	0-0	-0	+	-3.079200	-1.959281	-0.000000	0.537518	1.888896	2.612067
967	+++++	++00	-+-	-+	0	-2.414214	-1.561553	-1.561553	0.414214	2.561553	2.561553
968	++++-	+++-	00+	0+	+	-3.449490	-1.000000	0.000000	0.000000	1.449490	3.000000
969	++++-	++00	-++	++	0	-3.254820	-1.676810	0.000000	1.000000	1.000000	2.931630
970	++++-	++00	-++	-+	0	-3.177410	-1.561553	-0.678363	1.000000	1.855773	2.561553
971	++++-	++-+	-++	00	0	-2.561553	-2.561553	-0.414214	1.561553	1.561553	2.414214
972	++++-	+00+	--+	0+	+	-3.719018	-1.171815	-0.000000	1.000000	1.608912	2.281920
973	+++00	--++	-++	++	0	-4.162278	-0.000000	-0.000000	1.000000	1.000000	2.162278
974	+++++	++++	++0	+0	0	-1.746568	-1.000000	-1.000000	-1.000000	0.545096	4.201472
975	+++++	++++	++0	-0	0	-2.537165	-1.428742	-1.000000	0.301097	1.000000	3.664810
976	+++++	++++	+0-	0-	0	-2.805518	-1.000000	-1.000000	-0.248485	1.722064	3.331939
977	+++++	++++	000	--	-	-3.518817	-1.000000	-0.390699	1.000000	1.000000	2.909516
978	+++++	+++0	++0	+0	-	-2.000000	-1.000000	-1.000000	-1.000000	1.000000	4.000000
979	+++++	+++0	++0	-+	0	-2.437996	-1.513734	-1.000000	-0.000000	1.356719	3.595010
980	+++++	+++0	++0	-0	-	-2.737141	-1.347562	-1.000000	0.215531	1.488208	3.380964
981	+++++	+++0	++-	-0	0	-2.372281	-2.000000	-1.000000	1.000000	1.000000	3.372281

982	+++++	+++0	+-+	-0	0	-2.561553	-1.681331	-1.000000	0.357926	1.561553	3.323404
983	+++++	+++0	+-0	-0	+	-2.586832	-1.470308	-1.000000	-0.160522	2.104486	3.113176
984	+++++	+++0	+-0	--	0	-2.842236	-1.506942	-1.000000	0.506942	1.842236	3.000000
985	+++++	+++0	--+	-0	0	-3.380964	-1.488208	-0.215531	1.000000	1.347562	2.737141
986	+++++	+++-	+-0	-0	0	-2.561553	-2.000000	-1.000000	1.000000	1.561553	3.000000
987	+++++	+++-	000	-+	+	-3.094634	-1.716597	-0.404013	1.000000	1.262293	2.952951
988	+++++	+++-	000	-+	-	-2.489289	-2.236068	-0.289169	-0.000000	2.236068	2.778457
989	+++++	+++-	--0	-0	0	-3.372281	-2.000000	1.000000	1.000000	1.000000	2.372281
990	+++++	++0-	-+-	0+	0	-2.323404	-2.236068	-1.000000	0.642074	2.236068	2.681331
991	+++++	++0-	-0+	0+	-	-3.113176	-2.104486	0.160522	1.000000	1.470308	2.586832
992	++++0	+++0	++0	-+	+	-2.909516	-1.000000	-1.000000	0.390699	1.000000	3.518817
993	++++0	+++0	++0	-+	-	-2.372281	-1.000000	-1.000000	-1.000000	2.000000	3.372281
994	++++0	+++0	+-+	-0	+	-2.952951	-1.262293	-1.000000	0.404013	1.716597	3.094634
995	++++0	+++0	--+	-+	0	-3.664810	-1.000000	-0.301097	1.000000	1.428742	2.537165
996	++++0	++-+	-++	+0	0	-3.000000	-1.842236	-0.506942	1.000000	1.506942	2.842236
997	++++0	++-+	-+0	+0	+	-3.331939	-1.722064	0.248485	1.000000	1.000000	2.805518
998	++++0	++-+	-+0	+0	-	-3.000000	-1.561553	-1.000000	1.000000	2.000000	2.561553
999	++++0	++-+	-+0	+-	0	-3.323404	-1.561553	-0.357926	1.000000	1.681331	2.561553
1000	++++0	++-+	-+0	-0	+	-2.778457	-2.236068	0.000000	0.289169	2.236068	2.489289
1001	++++0	++-0	-+0	-+	+	-2.681331	-2.236068	-0.642074	1.000000	2.236068	2.323404
1002	++++-	++0-	-0+	0+	+	-3.595010	-1.356719	0.000000	1.000000	1.513734	2.437996
1003	++++-	+000	--+	++	+	-3.372281	-1.000000	-1.000000	1.000000	2.000000	2.372281
1004	++++-	+000	--+	-+	+	-4.000000	-1.000000	1.000000	1.000000	1.000000	2.000000
1005	++++-	000+	--+	-+	+	-4.201472	-0.545096	1.000000	1.000000	1.000000	1.746568
1006	+++++	++++	++0	0+	0	-1.687400	-1.618034	-1.000000	-0.431627	0.618034	4.119027
1007	+++++	++++	++0	00	-	-2.491344	-1.171952	-1.000000	-0.237459	1.155262	3.745493
1008	+++++	++++	+00	0-	+	-2.270534	-1.341325	-1.000000	-0.618034	1.618034	3.611859
1009	+++++	++++	+00	0-	-	-2.954891	-1.074701	-1.000000	0.355379	1.321428	3.352785
1010	+++++	++++	+0-	-0	0	-2.713585	-1.618034	-1.000000	0.618034	1.482859	3.230725
1011	+++++	++++	00-	-0	-	-3.387619	-1.000000	-0.618034	0.513544	1.618034	2.874076
1012	+++++	+++0	++-	0+	0	-2.302776	-1.518199	-1.000000	-0.178194	1.302776	3.696393
1013	+++++	+++0	+0+	--	0	-2.713585	-1.618034	-1.000000	0.618034	1.482859	3.230725
1014	+++++	+++0	+00	-+	+	-2.598761	-1.473660	-1.000000	0.295737	1.252791	3.523893
1015	+++++	+++0	+00	-+	-	-2.388698	-1.665826	-1.000000	-0.122605	1.846006	3.331122
1016	+++++	+++0	+00	--	+	-2.350157	-1.581379	-1.000000	-0.425707	2.207052	3.150190
1017	+++++	+++0	+0-	-+	0	-2.302776	-2.192582	-1.000000	1.000000	1.302776	3.192582
1018	+++++	+++0	0-+	-0	+	-3.088519	-1.491819	-0.485309	0.485309	1.491819	3.088519
1019	+++++	+++0	0-0	--	+	-2.949485	-1.653460	-0.589641	0.292869	2.195356	2.704362
1020	+++++	+++-	+00	-0	+	-2.569380	-1.818054	-1.000000	0.506650	1.760226	3.120558
1021	+++++	+++-	00+	-+	0	-2.947323	-1.815379	-0.365917	0.539513	1.565591	3.023515
1022	+++++	+++-	00+	-0	-	-2.576277	-2.263220	-0.576993	0.729745	1.900432	2.786313
1023	+++++	+++-	0-+	-0	0	-3.028341	-2.032181	-0.192790	1.000000	1.571278	2.682034
1024	+++++	++00	-+0	-+	+	-2.472834	-1.618034	-1.462598	0.618034	1.935432	3.000000
1025	+++++	++00	-+0	-+	-	-2.361469	-2.145103	-0.523976	-0.167449	2.528918	2.669079
1026	+++++	++00	-+-	0-	+	-3.230725	-1.482859	-0.618034	1.000000	1.618034	2.713585
1027	+++++	++00	-+-	-0	+	-2.664664	-1.827260	-1.249275	1.249275	1.827260	2.664664
1028	+++++	++0-	00-	-+	+	-2.572554	-2.093315	-1.000000	1.000000	2.093315	2.572554
1029	+++++	++0-	-00	-+	+	-3.000000	-1.935432	-0.618034	1.462598	1.618034	2.472834
1030	++++0	+++-	+0+	-+	0	-2.791288	-1.391382	-1.000000	0.227134	1.791288	3.164248
1031	++++0	+++-	+00	-+	+	-3.106978	-1.160469	-1.000000	1.000000	1.160469	3.106978
1032	++++0	+++-	0-+	-0	+	-3.523893	-1.252791	-0.295737	1.000000	1.473660	2.598761
1033	++++0	++0+	-++	++	0	-2.874076	-1.618034	-0.513544	0.618034	1.000000	3.387619
1034	++++0	++0+	-++	+-	0	-2.682034	-1.571278	-1.000000	0.192790	2.032181	3.028341
1035	++++0	++00	-++	++	-	-3.352785	-1.321428	-0.355379	1.000000	1.074701	2.954891
1036	++++0	++00	-++	-+	+	-3.023515	-1.565591	-0.539513	0.365917	1.815379	2.947323
1037	++++0	++00	-++	-+	-	-2.786313	-1.900432	-0.729745	0.576993	2.263220	2.576277

1038	++++0 ++00 --+ -+ +	-3.745493	-1.155262	0.237459	1.000000	1.171952	2.491344
1039	++++0 ++0- -++ -+ 0	-3.120558	-1.760226	-0.506650	1.000000	1.818054	2.569380
1040	++++0 ++-+ -++ 0+ 0	-2.704362	-2.195356	-0.292869	0.589641	1.653460	2.949485
1041	++++0 ++-+ -+- 00 +	-3.331122	-1.846006	0.122605	1.000000	1.665826	2.388698
1042	++++- ++00 -++ 0+ +	-3.164248	-1.791288	-0.227134	1.000000	1.391382	2.791288
1043	++++- ++00 -0+ -+ +	-3.696393	-1.302776	0.178194	1.000000	1.518199	2.302776
1044	++++- ++-+ -+0 0+ 0	-2.669079	-2.528918	0.167449	0.523976	2.145103	2.361469
1045	++++- ++-+ -+0 00 +	-3.150190	-2.207052	0.425707	1.000000	1.581379	2.350157
1046	++++- +00+ 0-+ ++ +	-3.230725	-1.482859	-0.618034	1.000000	1.618034	2.713585
1047	++++- +00+ 0-+ +- +	-3.192582	-1.302776	-1.000000	1.000000	2.192582	2.302776
1048	++++- +0-+ -0+ 0+ +	-3.611859	-1.618034	0.618034	1.000000	1.341325	2.270534
1049	++++- 00-+ -0+ -+ +	-4.119027	-0.618034	0.431627	1.000000	1.618034	1.687400
1050	+++++ +++0 ++0 0+ +	-2.184771	-1.244636	-1.000000	0.000000	0.361621	4.067786
1051	+++++ +++0 ++0 0+ -	-2.000000	-1.544156	-1.000000	-0.690205	1.512658	3.721702
1052	+++++ +++0 +0+ 0- -	-2.324862	-1.678215	-1.000000	-0.000000	1.437765	3.565311
1053	+++++ +++0 +0+ 0- -	-2.682291	-1.442643	-1.000000	0.194642	1.589839	3.340453
1054	+++++ +++0 +0- 0- +	-2.252160	-1.428988	-1.000000	-0.720154	2.076104	3.325197
1055	+++++ +++0 +0- -0 +	-2.273073	-2.000000	-1.000000	0.140435	2.000000	3.132637
1056	+++++ +++0 00+ -+ +	-2.932806	-1.321188	-0.291188	0.000000	1.000000	3.545182
1057	+++++ +++0 00+ -+ -	-2.494598	-1.840753	-0.734694	-0.000000	1.829277	3.240769
1058	+++++ +++0 00+ -- -	-3.112335	-1.477037	-0.796545	1.000000	1.529965	2.855952
1059	+++++ +++0 00- -+ +	-2.614393	-2.000000	-0.874396	1.000000	1.430218	3.058571
1060	+++++ +++0 00- -+ -	-2.809429	-1.639619	-0.761771	0.182729	2.227480	2.800609
1061	+++++ +++0 0-+ -+ 0	-3.033452	-1.467735	-0.190971	0.000000	1.451854	3.240304
1062	+++++ +++0 0-+ -- 0	-2.986948	-1.759591	-0.747173	1.251603	1.465518	2.776592
1063	+++++ ++00 0+- -+ +	-2.561553	-1.820822	-1.285865	1.159274	1.561553	2.947413
1064	+++++ ++00 0+- -+ -	-2.348894	-1.561553	-1.395932	-0.000000	2.561553	2.744826
1065	+++++ ++00 0+- -- +	-2.614726	-1.871539	-1.000000	0.540962	2.208170	2.737133
1066	+++++ ++0- 0+- -+ 0	-2.348894	-2.000000	-1.395932	1.000000	2.000000	2.744826
1067	+++++ ++0- 0-+ -0 +	-2.926874	-2.000000	-0.250657	0.511215	2.000000	2.666316
1068	++++0 +++0 ++- 0+ +	-2.649236	-1.123694	-1.000000	0.000000	1.096420	3.676510
1069	++++0 +++0 +0+ -+ +	-2.871494	-1.083955	-1.000000	0.321328	1.146852	3.487269
1070	++++0 +++0 +0+ -- +	-2.273073	-2.000000	-1.000000	0.140435	2.000000	3.132637
1071	++++0 +++0 +0- -+ +	-2.855952	-1.529965	-1.000000	0.796545	1.477037	3.112335
1072	++++0 +++0 0-+ -+ +	-3.545182	-1.000000	0.000000	0.291188	1.321188	2.932806
1073	++++0 +++0 0-+ -- +	-3.058571	-1.430218	-1.000000	0.874396	2.000000	2.614393
1074	++++0 +++- +0+ -0 +	-2.855952	-1.529965	-1.000000	0.796545	1.477037	3.112335
1075	++++0 +++- 00+ -+ +	-3.487269	-1.146852	-0.321328	1.000000	1.083955	2.871494
1076	++++0 +++- 0-+ -+ 0	-3.446008	-1.262727	0.000000	0.184337	1.900619	2.623779
1077	++++0 ++0+ -++ +0 +	-2.623779	-1.900619	-0.184337	0.000000	1.262727	3.446008
1078	++++0 ++0+ -++ +0 -	-2.776592	-1.465518	-1.251603	0.747173	1.759591	2.986948
1079	++++0 ++0+ -+0 +- +	-3.240304	-1.451854	0.000000	0.190971	1.467735	3.033452
1080	++++0 ++0+ -+0 -+ +	-2.666316	-2.000000	-0.511215	0.250657	2.000000	2.926874
1081	++++0 ++0+ -+- 0- +	-3.340453	-1.589839	-0.194642	1.000000	1.442643	2.682291
1082	++++0 ++0+ -+- -0 +	-2.737133	-2.208170	-0.540962	1.000000	1.871539	2.614726
1083	++++0 ++0- -++ 0+ +	-3.112335	-1.477037	-0.796545	1.000000	1.529965	2.855952
1084	++++0 ++0- -+0 -+ +	-2.947413	-1.561553	-1.159274	1.285865	1.820822	2.561553
1085	++++0 ++0- -0+ -+ +	-3.565311	-1.437765	0.000000	1.000000	1.678215	2.324862
1086	++++0 ++-+ -+0 0+ +	-2.800609	-2.227480	-0.182729	0.761771	1.639619	2.809429
1087	++++0 ++-+ -+0 0- +	-3.240769	-1.829277	-0.000000	0.734694	1.840753	2.494598
1088	++++0 ++-+ -0+ 0+ +	-2.904017	-2.144517	0.000000	1.000000	1.082881	2.965653
1089	++++0 ++-0 -+- 0+ +	-2.744826	-2.000000	-1.000000	1.395932	2.000000	2.348894
1090	++++0 ++-- -0+ 0+ +	-3.132637	-2.000000	-0.140435	1.000000	2.000000	2.273073
1091	++++0 +00+ --+ ++ +	-2.965653	-1.082881	-1.000000	0.000000	2.144517	2.904017
1092	++++0 +00+ --+ -+ +	-3.676510	-1.096420	0.000000	1.000000	1.123694	2.649236
1093	++++0 +00- --+ -+ +	-3.721702	-1.512658	0.690205	1.000000	1.544156	2.000000

1094	++++-	++-0	-+0	0+	+	-2.744826	-2.561553	0.000000	1.395932	1.561553	2.348894
1095	++++-	++-0	-0+	0+	+	-3.325197	-2.076104	0.720154	1.000000	1.428988	2.252160
1096	++++-	+0-+	-0+	++	0	-3.132637	-2.000000	-0.140435	1.000000	2.000000	2.273073
1097	+++00	0-++	-++	++	-	-4.067786	-0.361621	-0.000000	1.000000	1.244636	2.184771
1098	++++0	++0+	0++	++	+	-2.000000	-2.000000	-0.000000	0.000000	0.000000	4.000000
1099	++++0	++0+	0++	++	-	-2.640023	-1.414214	-0.864641	0.000000	1.414214	3.504664
1100	++++0	++0+	0++	+-	-	-2.000000	-2.000000	-1.236068	-0.000000	2.000000	3.236068
1101	++++0	++0+	0++	--	-	-2.828427	-1.414214	-1.414214	1.414214	1.414214	2.828427
1102	++++0	++0+	0+-	+-	+	-3.236068	-1.236068	-0.000000	0.000000	1.236068	3.236068
1103	++++0	++0+	0+-	-+	+	-2.903212	-1.709275	-0.806063	0.806063	1.709275	2.903212
1104	++++0	++0+	0+-	-+	-	-2.000000	-2.000000	-0.732051	-0.732051	2.732051	2.732051
1105	++++0	++0+	0+-	--	+	-2.732051	-2.000000	-0.732051	0.732051	2.000000	2.732051
1106	++++0	++0-	0-+	-+	+	-3.504664	-1.414214	0.000000	0.864641	1.414214	2.640023
1107	++++0	+0-+	-0+	++	+	-2.828427	-2.000000	0.000000	0.000000	2.000000	2.828427
1108	++++0	+0-+	-0-	++	-	-2.000000	-2.000000	-2.000000	2.000000	2.000000	2.000000
1109	++++0	+0-+	-0-	+-	+	-3.236068	-2.000000	0.000000	1.236068	2.000000	2.000000
1110	++++0	0--+	--+	0+	+	-4.000000	-0.000000	-0.000000	-0.000000	2.000000	2.000000
1111	+++0-	+0-+	-+0	++	+	-2.732051	-2.732051	0.732051	0.732051	2.000000	2.000000
1112	+++++	++++	+++	+0	0	-1.803542	-1.000000	-1.000000	-1.000000	0.375664	4.427879
1113	+++++	++++	+++	00	-	-2.683060	-1.000000	-1.000000	-0.281995	1.000000	3.965056
1114	+++++	++++	++0	+0	-	-2.257897	-1.000000	-1.000000	-1.000000	1.200810	4.057087
1115	+++++	++++	++0	-+	0	-2.37422	-1.62317	-1.00000	-0.15771	1.27066	3.884448
1116	+++++	++++	++0	-0	-	-2.950568	-1.293135	-1.000000	0.253322	1.469074	3.521307
1117	+++++	++++	++-	00	-	-2.642578	-1.466076	-1.000000	-0.133195	1.593507	3.648342
1118	+++++	++++	++-	-0	0	-2.492478	-2.118062	-1.000000	1.000000	1.149237	3.461303
1119	+++++	++++	+00	--	+	-2.577089	-1.000000	-1.000000	-1.000000	2.153467	3.423622
1120	+++++	++++	+00	--	-	-3.384691	-1.000000	-1.000000	1.000000	1.209719	3.174972
1121	+++++	++++	+0-	--	0	-3.093045	-1.254711	-1.000000	0.203808	2.030155	3.113793
1122	+++++	+++0	++0	-+	+	-2.787216	-1.346137	-1.000000	0.352465	1.000000	3.780888
1123	+++++	+++0	++0	-+	-	-2.431724	-1.673762	-1.000000	-0.385647	2.017471	3.473662
1124	+++++	+++0	++-	-+	0	-2.663793	-1.844765	-1.000000	0.480507	1.611388	3.416664
1125	+++++	+++0	+-+	-0	+	-2.763136	-1.620576	-1.000000	0.180588	1.836725	3.366399
1126	+++++	+++0	+-+	--	0	-2.695944	-2.076737	-1.000000	1.000000	1.668771	3.103910
1127	+++++	+++0	+-0	--	+	-2.581807	-1.798880	-1.000000	-0.087245	2.467932	3.000000
1128	+++++	+++0	--+	-+	0	-3.521307	-1.469074	-0.253322	1.000000	1.293135	2.950568
1129	+++++	+++-	+00	-+	+	-3.000000	-1.601679	-1.000000	1.000000	1.339877	3.261802
1130	+++++	+++-	+00	-+	-	-2.273073	-2.236068	-1.000000	0.140435	2.236068	3.132637
1131	+++++	+++-	+-0	-0	+	-2.805127	-1.883951	-1.000000	0.649405	2.039673	3.000000
1132	+++++	+++-	00+	-+	+	-3.335103	-1.578090	-0.296026	1.000000	1.000000	3.209219
1133	+++++	+++-	00+	-+	-	-2.666316	-2.236068	-0.511215	0.250657	2.236068	2.926874
1134	+++++	+++-	00-	-+	+	-3.000000	-2.039673	-0.649405	1.000000	1.883951	2.805127
1135	+++++	+++-	0-+	-0	+	-3.366399	-1.836725	-0.180588	1.000000	1.620576	2.763136
1136	+++++	+++-	--+	-0	0	-3.473662	-2.017471	0.385647	1.000000	1.673762	2.431724
1137	+++++	++00	-+-	-+	+	-2.348894	-2.236068	-1.395932	1.000000	2.236068	2.744826
1138	+++++	++0-	-0-	-+	+	-2.744826	-2.236068	-1.000000	1.395932	2.236068	2.348894
1139	++++0	+++0	++-	-+	+	-3.174972	-1.209719	-1.000000	1.000000	1.000000	3.384691
1140	++++0	+++0	+-+	-+	+	-3.209219	-1.000000	-1.000000	0.296026	1.578090	3.335103
1141	++++0	+++0	--+	-+	+	-3.965056	-1.000000	0.281995	1.000000	1.000000	2.683060
1142	++++0	+++-	+-+	-0	+	-3.261802	-1.339877	-1.000000	1.000000	1.601679	3.000000
1143	++++0	+++-	--+	-+	0	-3.884448	-1.270661	0.157716	1.000000	1.623171	2.374221
1144	++++0	++-+	-++	++	0	-3.113793	-2.030155	-0.203808	1.000000	1.254711	3.093045
1145	++++0	++-+	-++	+0	-	-3.103910	-1.668771	-1.000000	1.000000	2.076737	2.695944
1146	++++0	++-+	-+0	+-	+	-3.648342	-1.593507	0.133195	1.000000	1.466076	2.642578
1147	++++0	++-+	-+0	-+	+	-2.926874	-2.236068	-0.250657	0.511215	2.236068	2.666316
1148	++++0	++-+	-+-	-0	+	-3.132637	-2.236068	-0.140435	1.000000	2.236068	2.273073
1149	++++-	+++-	00+	-+	+	-3.780888	-1.000000	-0.352465	1.000000	1.346137	2.787216

1150	++++-	++00	-++	-+	+	-3.416664	-1.611388	-0.480507	1.000000	1.844765	2.663793
1151	++++-	++00	--+	-+	+	-4.057087	-1.200810	1.000000	1.000000	1.000000	2.257897
1152	++++-	++-+	-++	+0	0	-3.000000	-2.467932	0.087245	1.000000	1.798880	2.581807
1153	++++-	++-+	-+0	+0	+	-3.423622	-2.153467	1.000000	1.000000	1.000000	2.577089
1154	++++-	+00+	--+	++	+	-3.461303	-1.149237	-1.000000	1.000000	2.118062	2.492478
1155	+++00	--++	-++	++	-	-4.427879	-0.375664	1.000000	1.000000	1.000000	1.803542
1156	+++++	++++	++0	0+	+	-2.000000	-1.372281	-1.000000	-0.000000	-0.000000	4.372281
1157	+++++	++++	++0	0+	-	-2.254820	-1.414214	-1.000000	-0.676810	1.414214	3.931630
1158	+++++	++++	++0	0-	-	-2.927777	-1.094174	-1.000000	-0.000000	1.366224	3.655727
1159	+++++	++++	+0-	-0	+	-2.372281	-2.000000	-1.000000	-0.000000	2.000000	3.372281
1160	+++++	++++	+0-	-0	-	-3.162278	-1.414214	-1.000000	1.000000	1.414214	3.162278
1161	+++++	++++	0--	--	0	-3.701562	-1.000000	0.000000	0.000000	2.000000	2.701562
1162	+++++	+++0	++-	0+	+	-2.660672	-1.344849	-1.000000	-0.000000	1.163996	3.841525
1163	+++++	+++0	++-	0+	-	-2.342923	-1.645751	-1.000000	-0.470683	1.813607	3.645751
1164	+++++	+++0	+0+	--	+	-2.372281	-2.000000	-1.000000	-0.000000	2.000000	3.372281
1165	+++++	+++0	+0+	--	-	-3.162278	-1.414214	-1.000000	1.000000	1.414214	3.162278
1166	+++++	+++0	+0-	-+	+	-2.732051	-1.895107	-1.000000	0.732051	1.602705	3.292402
1167	+++++	+++0	+0-	-+	-	-2.626198	-2.000000	-1.000000	0.484862	2.000000	3.141336
1168	+++++	+++0	+0-	--	+	-2.449490	-1.761557	-1.000000	-0.363328	2.449490	3.124885
1169	+++++	+++0	0-+	-+	+	-3.349178	-1.335294	-0.000000	0.000000	1.335294	3.349178
1170	+++++	+++0	0-+	--	+	-2.938834	-1.935173	-0.786358	0.786358	1.935173	2.938834
1171	+++++	+++-	0-+	-+	0	-3.287054	-1.865007	-0.000000	0.522632	1.711357	2.918071
1172	+++++	+++-	0-+	--	0	-2.917286	-2.342923	-0.470683	1.319551	1.813607	2.597735
1173	+++++	++0-	0+-	-+	+	-2.749828	-1.854305	-1.414214	1.414214	1.854305	2.749828
1174	+++++	++0-	-+-	-0	+	-2.561553	-2.000000	-1.561553	1.561553	2.000000	2.561553
1175	+++++	++0-	--+	-0	+	-3.372281	-2.000000	0.000000	1.000000	2.000000	2.372281
1176	++++0	+++-	+0+	-+	+	-3.236068	-1.236068	-1.000000	1.000000	1.236068	3.236068
1177	++++0	+++-	0-+	-+	+	-3.841525	-1.163996	-0.000000	1.000000	1.344849	2.660672
1178	++++0	++0+	-++	++	+	-2.701562	-2.000000	-0.000000	-0.000000	1.000000	3.701562
1179	++++0	++0+	-++	++	-	-3.162278	-1.414214	-1.000000	1.000000	1.414214	3.162278
1180	++++0	++0+	-++	+-	+	-2.918071	-1.711357	-0.522632	-0.000000	1.865007	3.287054
1181	++++0	++0+	-++	+-	-	-2.597735	-1.813607	-1.319551	0.470683	2.342923	2.917286
1182	++++0	++0+	-+-	+-	+	-3.655727	-1.366224	0.000000	1.000000	1.094174	2.927777
1183	++++0	++0+	-+-	-+	+	-2.681331	-2.323404	-0.642074	0.642074	2.323404	2.681331
1184	++++0	++0-	-++	-+	+	-3.292402	-1.602705	-0.732051	1.000000	1.895107	2.732051
1185	++++0	++0-	--+	-+	+	-3.931630	-1.414214	0.676810	1.000000	1.414214	2.254820
1186	++++0	++-+	-++	0+	+	-2.626198	-2.561553	-0.000000	0.484862	1.561553	3.141336
1187	++++0	++-+	-+-	0+	+	-3.141336	-2.000000	-0.484862	1.000000	2.000000	2.626198
1188	++++0	++-+	-+-	0-	+	-3.645751	-1.813607	0.470683	1.000000	1.645751	2.342923
1189	++++0	+0-+	--+	++	+	-3.141336	-1.561553	-0.484862	0.000000	2.561553	2.626198
1190	++++-	++-+	-+0	0+	+	-3.124885	-2.449490	0.363328	1.000000	1.761557	2.449490
1191	++++-	+0-+	-0+	++	+	-3.372281	-2.000000	-0.000000	1.000000	2.000000	2.372281
1192	+++0-	0-++	-++	++	-	-4.372281	-0.000000	-0.000000	1.000000	1.372281	2.000000
1193	+++++	++++	+++	++	0	-1.701562	-1.000000	-1.000000	-1.000000	-0.000000	4.701562
1194	+++++	++++	+++	+0	-	-2.404047	-1.000000	-1.000000	-1.000000	1.182370	4.221677
1195	+++++	++++	+++	0-	-	-3.135550	-1.000000	-1.000000	-0.000000	1.346835	3.788715
1196	+++++	++++	++0	+-	-	-2.561553	-1.000000	-1.000000	-1.000000	1.561553	4.000000
1197	+++++	++++	++0	-+	+	-2.629813	-1.480279	-1.000000	-0.000000	1.000000	4.110092
1198	+++++	++++	++0	-+	-	-2.592415	-1.619590	-1.000000	-0.406184	1.884623	3.733567
1199	+++++	++++	++0	--	-	-3.409322	-1.173254	-1.000000	1.000000	1.173254	3.409322
1200	+++++	++++	++-	-+	0	-2.561553	-2.141336	-1.000000	0.515138	1.561553	3.626198
1201	+++++	++++	++-	-0	-	-2.937483	-1.839587	-1.000000	0.614821	1.779657	3.382592
1202	+++++	++++	+0-	--	+	-2.746568	-1.561553	-1.000000	-0.454904	2.561553	3.201472
1203	+++++	++++	+--	--	0	-3.372281	-1.000000	-1.000000	-0.000000	2.372281	3.000000
1204	+++++	+++0	++-	-+	+	-3.104161	-1.584641	-1.000000	1.000000	1.148436	3.540366
1205	+++++	+++0	++-	-+	-	-2.372281	-2.236068	-1.000000	-0.000000	2.236068	3.372281

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1206   +++++ +++0 +-+ -+ +   -3.000000 -1.323404 -1.000000 -0.000000  1.642074  3.681331
1207   +++++ +++0 +-+ -- +   -2.626198 -2.236068 -1.000000  0.484862  2.236068  3.141336
1208   +++++ +++0 --+ -+ +   -3.788715 -1.346835 -0.000000  1.000000  1.000000  3.135550
1209   +++++ +++- +0- -+ +   -3.114733 -1.816160 -1.000000  1.000000  1.816160  3.114733
1210   +++++ +++- +-+ -- 0   -2.561553 -2.561553 -1.000000  1.561553  1.561553  3.000000
1211   +++++ +++- 0-+ -+ +   -3.681331 -1.642074  0.000000  1.000000  1.323404  3.000000
1212   +++++ +++- 0-+ -- +   -3.141336 -2.236068 -0.484862  1.000000  2.236068  2.626198
1213   +++++ +++- --+ -+ 0   -3.733567 -1.884623  0.406184  1.000000  1.619590  2.592415
1214   +++++ ++0- -+- -+ +   -2.561553 -2.236068 -1.561553  1.561553  2.236068  2.561553
1215   ++++0 +++- +-+ -+ +   -3.540366 -1.148436 -1.000000  1.000000  1.584641  3.104161
1216   ++++0 +++- --+ -+ +   -4.221677 -1.182370  1.000000  1.000000  1.000000  2.404047
1217   ++++0 ++-+ -++ ++ +   -3.000000 -2.372281  0.000000  1.000000  1.000000  3.372281
1218   ++++0 ++-+ -++ ++ -   -3.382592 -1.779657 -0.614821  1.000000  1.839587  2.937483
1219   ++++0 ++-+ -++ +- -   -3.000000 -1.561553 -1.561553  1.000000  2.561553  2.561553
1220   ++++0 ++-+ -++ -+ +   -3.000000 -2.236068 -0.000000  0.000000  2.236068  3.000000
1221   ++++0 ++-+ -+- +- +   -4.000000 -1.561553  1.000000  1.000000  1.000000  2.561553
1222   ++++- +++- 0-+ -+ +   -4.110092 -1.000000 -0.000000  1.000000  1.480279  2.629813
1223   ++++- ++0- --++ -+ +  -3.626198 -1.561553 -0.515138  1.000000  2.141336  2.561553
1224   ++++- ++-+ -++ ++ 0   -3.201472 -2.561553  0.454904  1.000000  1.561553  2.746568
1225   ++++- ++-+ -+0 -+ +   -3.372281 -2.236068  0.000000  1.000000  2.236068  2.372281
1226   +++0- --++ -++ ++ -   -4.701562 -0.000000  1.000000  1.000000  1.000000  1.701562
1227   +++++ ++++ +++ ++ +   -1.000000 -1.000000 -1.000000 -1.000000 -1.000000  5.000000
1228   +++++ ++++ +++ ++ -   -2.464102 -1.000000 -1.000000 -1.000000  1.000000  4.464102
1229   +++++ ++++ +++ +- -   -2.758770 -1.000000 -1.000000 -1.000000  1.694593  4.064178
1230   +++++ ++++ +++ -- -   -3.605551 -1.000000 -1.000000  1.000000  1.000000  3.605551
1231   +++++ ++++ ++- -+ +   -3.000000 -1.828427 -1.000000  1.000000  1.000000  3.828427
1232   +++++ ++++ ++- -+ -   -2.603875 -2.236068 -1.000000  0.109916  2.236068  3.493959
1233   +++++ ++++ +-- -- +   -3.000000 -1.000000 -1.000000 -1.000000  3.000000  3.000000
1234   +++++ +++- ++- -+ +   -3.387054 -1.589926 -1.000000  1.000000  1.589926  3.387054
1235   +++++ +++- +-+ -- +   -3.000000 -2.236068 -1.000000  1.000000  2.236068  3.000000
1236   +++++ +++- --+ -+ +   -4.064178 -1.694593  1.000000  1.000000  1.000000  2.758770
1237   +++++ ++-- -+- -+ +   -2.236068 -2.236068 -2.236068  2.236068  2.236068  2.236068
1238   ++++- +++- +-+ -+ +   -3.828427 -1.000000 -1.000000  1.000000  1.828427  3.000000
1239   ++++- +++- --+ -+ +   -4.464102 -1.000000  1.000000  1.000000  1.000000  2.464102
1240   ++++- ++-+ -++ ++ +   -3.000000 -3.000000  1.000000  1.000000  1.000000  3.000000
1241   ++++- ++-+ -++ ++ -   -3.493959 -2.236068 -0.109916  1.000000  2.236068  2.603875
1242   +++-- --++ -++ ++ -   -5.000000  1.000000  1.000000  1.000000  1.000000  1.000000
```

COSPECTRAL GRAPHS OF ORDER 5:

(10,14)   (36,39)

COSPECTRAL GRAPHS OF ORDER 6:

(11,16)	(15,18)	(17,21)	(28,32,44)
(51,90)	(55,85)	(56,63,77)	(57,87)
(59,72)	(78,95)	(86,94,97)	(102,152)
(103,176)	(104,154)	(106,165)	(107,167)
(118,183)	(119,184)	(144,166)	(146,168)
(153,177)	(156,180)	(196,318)	(197,321)
(211,289)	(212,292)	(236,308)	(237,246)
(239,245,311)	(240,312)	(241,309)	(243,248,315)
(281,303)	(284,304)	(285,306)	(297,299)
(329,520)	(330,432,518)	(332,524)	(335,483)
(343,490)	(358,430)	(361,435)	(366,369)

(431,522)   (436,525)   (441,443)   (448,449)
(466,470)   (467,521)   (486,491)   (489,493)
(528,645)   (531,629)   (535,631)   (539,654)
(559,566)   (562,571)   (628,715)   (630,721)
(632,723)   (719,722)   (783,789,793)   (784,943)
(787,946)   (788,955)   (789,793)   (791,956)
(813,828)   (822,846)   (1010,1013)   (1026,1046)
(1055,1070)   (1058,1083)   (1071,1074)   (1090,1096)
(1159,1164)   (1160,1165,1179)   (1175,1191)

Table 2

PARTITION BY DET AND SIG, COXTETER SIGNED GRAPHS

```
ORDER = 4

 5       + + +   0 0   0       det = 4
-1.732051   -0.000000   0.000000   1.732051


 8       + + 0   0 +   0       det = 5
-1.618034   -0.618034   0.618034   1.618034


10       + + +   0 0   -       det = -3
-2.170086   -0.311108   1.000000   1.481194


11       + + 0   0 +   +       det = 0
-2.000000    0.000000   0.000000   2.000000


15       + + 0   - +   +       det = -12
-2.561553    0.000000   1.000000   1.561553


18       + + -   - +   +       det = -27
-3.000000    1.000000   1.000000   1.000000



 5     + + + +    8,9,16                          8
 4     + + + +    5,12,13                         5
 0     0 + + +    11,14                           11
-3     - + + +    10,17                           10
-12    - + + +    15                              15
-27    - + + +    18                              18




ORDER = 5

10       + + + +   0 0 0   0 0   0     det = 0
-2.000000   -0.000000   0.000000   0.000000   2.000000


13       + + + 0   0 0 +   0 0   0     det = 4
-1.847759   -0.765367   0.000000   0.765367   1.847759


16       + + 0 0   0 + 0   0 +   0     det = 6
-1.732051   -1.000000   0.000000   1.000000   1.732051


20       + + + +   0 0 0   0 0   -     det = -12
-2.342923   -0.470683   0.000000   1.000000   1.813607


25       + + + 0   0 0 0   - +   0     det = -10
-2.302776   -0.618034   0.000000   1.302776   1.618034


26       + + + 0   0 0 +   0 +   0     det = -4
```

```
-2.135779   -0.662153    0.000000    0.662153   2.135779

29      + + + 0   0 0 +   - 0   0        det = -6
-2.214320   -1.000000    0.539189    1.000000   1.675131

31      + + 0 0   0 + 0   0 +   -        det = 0
-2.000000   -0.618034   -0.618034    1.618034   1.618034

34      + + + -   0 0 +   0 +   0        det = -28
-2.685544   -0.334904    0.000000    1.271330   1.749118

37      + + + +   0 0 -   - 0   0        det = -18
-2.561553   -1.000000    1.000000    1.000000   1.561553

44      + + + 0   0 0 0   - +   +        det = -24
-2.641186   -0.723742    0.589216    1.000000   1.775713

45      + + + 0   0 0 +   0 +   +        det = -16
-2.449490    0.000000    0.000000    0.000000   2.449490

49      + + + 0   0 0 +   - +   0        det = -16
-2.481194   -0.688892    0.000000    1.170086   2.000000

54      + + + -   0 0 +   0 +   +        det = -48
-3.000000   -0.000000    0.000000    1.000000   2.000000

58      + + + -   0 0 0   - +   +        det = -54
-3.086130   -0.428007    1.000000    1.000000   1.514137

64      + + + 0   0 - +   - 0   +        det = -40
-2.935432   -0.618034    0.462598    1.472834   1.618034

68      + + + 0   0 0 +   - +   +        det = -36
-2.855773   -0.321637    0.000000    1.000000   2.177410

79      + + + -   0 0 +   - +   +        det = -72
-3.323404   -0.357926    1.000000    1.000000   1.681331

85      + + + 0   0 - +   - +   +        det = -64
-3.236068   -0.000000    0.000000    1.236068   2.000000

93      + + + 0   - - +   - +   +        det = -108
-3.645751    0.000000    1.000000    1.000000   1.645751

100     + + + -   - - +   - +   +        det = -162
-4.000000    1.000000    1.000000    1.000000   1.000000


6     + + + + +     16,24,28,35,55,94                      16
4     + + + + +     13,19,27,30,32,41,48,59,66,70,86        13
2     - - + + +     99
0     0 + + + +     10,31,42,46,47,51,52,61,72,80,81        10,31
0     0 0 + + +     82
0     - 0 + + +     75
-4    - + + + +     26,33,43,50,60,62,65,67,73,76,87,90,    26
                    91
```

```
 -6      - + + + +    29,36,56,95                         29
-10      - + + + +    25,57,96                            25
-12      - + + + +    20,69,71,89                         20
-16      - + + + +    45,49,53,63,74,83,84                45,49
-18      - + + + +    37,98                               37
-24      - + + + +    44,77                               44
-28      - + + + +    34,88                               34
-36      - + + + +    68,78,92                            68
-40      - + + + +    64                                  64
-48      - + + + + ·  54                                  54
-54      - + + + +    58,97                               58
-64      - + + + +    85                                  85
-72      - + + + +    79                                  79
-108     - + + + +    93                                  93
-162     - + + + +    100                                 100
```

```
ORDER = 6

23      + + + + +   0 0 0 0    0 0 0    0 0   0        det = -16
 -2.236068    0.000000    0.000000    0.000000    0.000000    2.236068

26      + + + + 0   0 0 0 +    0 0 0    0 0   0        det = -4
 -2.074313   -0.835000    0.000000    0.000000    0.835000    2.074313

32      + + + 0 0   0 0 + +    0 0 0    0 0   0        det = 0
 -2.000000   -1.000000   -0.000000    0.000000    1.000000    2.000000

37      + + + 0 0   0 0 + 0    0 0 0    0 0   +        det = 4
 -1.902113   -1.175571   -0.000000    0.000000    1.175571    1.902113

38      + + + 0 0   0 0 + 0    0 0 +    0 0   0        det = 3
 -1.931852   -1.000000   -0.517638    0.517638    1.000000    1.931852

43      + + 0 0 0   0 + 0 0    0 + 0    0 +   0        det = 7
 -1.801938   -1.246980   -0.445042    0.445042    1.246980    1.801938

49      + + + + +   0 0 0 0    0 0 0    0 0   -        det = -36
 -2.514137   -0.571993    0.000000    0.000000    1.000000    2.086130

54      + + + + 0   0 0 0 0    0 0 0    - +   0        det = -28
 -2.445787   -0.796815    0.000000    0.000000    1.370326    1.872276

58      + + + + 0   0 0 0 +    0 0 +    0 0   0        det = -16
 -2.288246   -0.874032    0.000000    0.000000    0.874032    2.288246

61      + + + + 0   0 0 0 +    0 0 0    - 0   0        det = -21
 -2.379878   -1.000000   -0.291367    0.751024    1.000000    1.920221

70      + + + 0 0   0 0 0 0    - + 0    0 +   0        det = -25
 -2.414214   -0.618034   -0.618034    0.414214    1.618034    1.618034

77      + + + 0 0   0 0 + 0    0 + 0    0 0   +        det = -12
```

```
         -2.236068    -1.000000     0.000000     0.000000    1.000000    2.236068

79       + + + 0 0    0 0 + +   0 + 0    0 0   0      det = -13
         -2.246980    -0.801938    -0.554958    0.554958    0.801938    2.246980

82       + + + 0 0    0 0 + +   0 0 0    0 0   -      det = -12
         -2.278414    -1.317431    -0.000000    0.704624    1.000000    1.891220

84       + + + 0 0    0 0 + 0   - 0 +    0 0   0      det = -17
         -2.334201    -1.099585    -0.274205    0.594523    1.373790    1.739677

89       + + + 0 0    0 0 + 0   0 0 +    0 0   -      det = -5
         -2.114908    -1.000000    -0.618034    0.254102    1.618034    1.860806

90       + + + 0 0    0 0 + 0   0 + 0    0 +   0      det = -8
         -2.175328    -1.126033     0.000000    0.000000    1.126033    2.175328

93       + + + 0 0    0 0 + 0   - 0 0    0 0   +      det = -9
         -2.228328    -1.360409    -0.185885    1.000000    1.000000    1.774623

94       + + 0 0 0    0 + 0 0   0 + 0    0 +   +      det = 0
         -2.000000    -1.000000    -1.000000    1.000000    1.000000    2.000000

101      + + + + -    0 0 0 +   0 0 +    0 0   0      det = -64
         -2.813607    -0.529317     0.000000    0.000000    1.342923    2.000000

104      + + + + +    0 0 0 0   0 0 -    - 0   0      det = -45
         -2.709275    -1.000000    -0.193937    1.000000    1.000000    1.903212

111      + + + 0 -    0 0 0 +   0 0 +    0 0   +      det = -60
         -2.791288    -0.618034    -0.000000    0.000000    1.618034    1.791288

124      + + + + 0    0 0 0 0   0 0 0    - +   +      det = -48
         -2.732051    -1.000000     0.000000    0.732051    1.000000    2.000000

129      + + + 0 0    0 0 0 0   - + +    + 0   0      det = -53
         -2.753715    -0.772675    -0.306358    0.609280    1.329265    1.894203

130      + + + + 0    0 0 0 +   0 0 +    0 +   0      det = -36
         -2.557612    -0.677214     0.000000    0.000000    0.677214    2.557612

134      + + + + 0    0 0 0 +   0 0 0    - +   0      det = -37
         -2.599072    -0.766109    -0.466856    0.384753    1.305298    2.141987

139      + + + + 0    0 0 - +   - 0 0    0 0   0      det = -33
         -2.628651    -1.229738    -0.139666    1.000000    1.319775    1.678280

142      + + + 0 -    0 0 + 0   0 0 +    0 +   0      det = -44
         -2.705587    -1.056082    -0.000000    0.559970    1.350364    1.851335

145      + + + + 0    0 0 0 +   0 0 +    - 0   0      det = -24
         -2.503504    -1.264377    -0.000000    0.576713    1.000000    2.191169

154      + + + 0 0    0 0 0 0   - + 0    + 0   +      det = -45
         -2.709275    -1.000000    -0.193937    1.000000    1.000000    1.903212
```

```
158     + + + 0 0   0 0 + +   0 + +   0 0   0       det = -32
  -2.524338   -0.792287   -0.000000    0.000000   0.792287   2.524338


163     + + + 0 0   0 0 + +   0 + 0   0 0   -       det = -29
  -2.539484   -1.082474   -0.261144    0.540632   1.206076   2.136393


167     + + + 0 0   0 0 + 0   - + 0   0 +   0       det = -32
  -2.561553   -1.000000   -0.000000   -0.000000   1.561553   2.000000


172     + + + 0 0   0 0 + 0   - 0 +   0 +   0       det = -36
  -2.655442   -1.210756   -0.000000    1.000000   1.000000   1.866198


174     + + + 0 0   0 0 + 0   0 + 0   0 +   -       det = -20
  -2.391382   -0.772866   -0.618034    0.000000   1.618034   2.164248


176     + + + 0 0   0 0 + +   0 + 0   0 +   0       det = -21
  -2.414214   -1.000000   -0.414214    0.414214   1.000000   2.414214


181     + + + 0 0   0 0 + +   - 0 0   0 0   -       det = -9
  -2.414214   -1.732051    0.414214    1.000000   1.000000   1.732051


185     + + 0 0 0   0 + 0 0   0 + 0   - +   +       det = -20
  -2.438283   -1.138564   -0.618034    0.820249   1.618034   1.756598


189     + + + + -   0 0 0 +   0 0 +   0 +   0       det = -100
  -3.102009   -0.344292   -0.000000    0.000000   1.322834   2.123467


193     + + + + -   0 0 0 0   0 0 0   - +   +       det = -108
  -3.177410   -0.678363    0.000000    1.000000   1.000000   1.855773


199     + + + + -   0 0 0 +   0 0 0   - +   0       det = -85
  -3.043738   -0.618034   -0.328543    0.548230   1.618034   1.824051


205     + + + + -   0 0 0 +   0 0 +   - 0   0       det = -60
  -2.947413   -1.159274   -0.000000    1.000000   1.285865   1.820822


220     + + + 0 -   0 0 0 0   - + +   0 +   0       det = -105
  -3.164248   -0.618034   -0.227134    1.000000   1.391382   1.618034


227     + + + + 0   0 0 0 0   0 - +   - 0   +       det = -77
  -3.014326   -0.848136   -0.196690    0.724824   1.477984   1.856343


234     + + + 0 0   0 0 0 0   - + +   + +   0       det = -84
  -3.047799   -0.821355   -0.000000    0.756244   1.000000   2.112911


235     + + + + 0   0 0 0 +   0 0 +   0 +   +       det = -64
  -2.828427    0.000000    0.000000    0.000000   0.000000   2.828427


242     + + + + 0   0 0 0 +   0 - 0   - 0   +       det = -64
  -2.903212   -0.806063   -0.000000    0.000000   1.709275   2.000000


253     + + + + 0   0 0 0 +   0 0 0   - +   +       det = -69
  -2.932668   -0.727166   -0.308777    0.656954   1.000000   2.311657


260     + + + 0 0   0 0 + 0   - + +   + 0   0       det = -72
  -2.943879   -0.664834   -0.000000   -0.000000   1.368371   2.240342
```

```
269      + + + 0 0   0 0 0 0   - + +   + 0   -        det = -68
     -2.980937   -1.041955    0.000000    0.706201    1.537083    1.779608


273      + + + 0 -   0 0 + 0   - 0 +   0 +   0        det = -81
     -3.096507   -1.116884    0.508923    1.000000    1.000000    1.704468


277      + + + + 0   0 0 0 +   0 0 +   - +   0        det = -52
     -2.796437   -0.853193   -0.000000    0.000000    1.195491    2.454139


283      + + + + 0   0 0 - +   - 0 +   0 0   0        det = -48
     -2.813607   -1.000000   -0.529317    1.000000    1.342923    2.000000


291      + + + + 0   0 0 - +   - 0 0   0 0   +        det = -36
     -2.842236   -1.506942    0.506942    1.000000    1.000000    1.842236


300      + + + 0 0   0 0 + 0   - + +   0 +   0        det = -53
     -2.852917   -1.055423   -0.183007    0.661061    1.271849    2.158438


305      + + + 0 0   0 0 + +   0 + +   0 0   -        det = -60
     -2.895107   -1.000000   -0.000000    0.602705    1.000000    2.292402


307      + + + 0 0   0 0 + +   0 + +   + 0   0        det = -48
     -2.732051   -0.732051   -0.000000    0.000000    0.732051    2.732051


315      + + + 0 0   0 0 + +   - + 0   0 0   -        det = -32
     -2.732051   -1.414214   -0.000000    0.732051    1.414214    2.000000


320      + + + 0 0   0 0 + +   0 + 0   0 +   -        det = -45
     -2.741082   -0.710287   -0.618034    0.231361    1.618034    2.220008


327      + + + 0 0   0 0 + 0   - 0 +   0 +   -        det = -45
     -2.791288   -1.000000   -0.618034    1.000000    1.618034    1.791288


331      + + + + -   0 0 0 +   0 0 +   0 +   +        det = -144
     -3.372281   -0.000000   -0.000000   -0.000000    1.000000    2.372281


344      + + + + -   0 0 0 +   0 0 0   - +   +        det = -141
     -3.403682   -0.489727   -0.251197    1.000000    1.282696    1.861910


355      + + + + -   0 0 0 +   0 0 +   - +   0        det = -112
     -3.281394   -0.771876   -0.000000    0.512486    1.540785    2.000000


362      + + + 0 0   0 - + 0   - + 0   + +   0        det = -128
     -3.323404   -0.357926    0.000000    0.000000    1.681331    2.000000


372      + + + 0 0   0 - + 0   - 0 +   + +   0        det = -93
     -3.222743   -1.000000   -0.112389    1.000000    1.526602    1.808530


380      + + + + -   0 0 - +   - 0 0   0 0   +        det = -81
     -3.261802   -1.339877    1.000000    1.000000    1.000000    1.601679


400      + + + 0 -   0 0 0 +   - + +   0 +   0        det = -132
     -3.383931   -0.742438   -0.000000    1.000000    1.327912    1.798457


408      + + + + 0   0 0 - 0   - 0 0   - +   +        det = -100
```

```
          -3.236068    -0.618034    -0.618034    1.236068    1.618034    1.618034

416       + + + + 0   0 0 0 0   0 - +   - +   +       det = -116
          -3.294791    -0.734704    -0.000000    0.597518    1.292730    2.139248

428       + + + 0 0   0 0 0 0   - + +   + +   -       det = -117
          -3.353856    -1.000000    0.476452    1.000000    1.000000    1.877404

434       + + + + 0   0 0 0 +   0 0 +   - +   +       det = -96
          -3.141336    -0.484862    0.000000    0.000000    1.000000    2.626198

450       + + + + 0   0 0 0 +   0 - +   - 0   +       det = -93
          -3.169195    -0.728212    -0.279848    0.466300    1.505788    2.205168

462       + + + 0 -   0 0 0 +   - + +   + 0   0       det = -77
          -3.181943    -1.246980    0.445042    0.593579    1.588364    1.801938

471       + + + 0 -   0 0 + 0   - + +   0 +   0       det = -96
          -3.236068    -1.000000    0.000000    1.000000    1.236068    2.000000

480       + + + 0 0   0 0 + 0   - + +   + +   0       det = -96
          -3.188757    -0.834653    -0.000000    0.627204    1.000000    2.396206

490       + + + + 0   0 0 - +   - 0 +   0 +   0       det = -69
          -3.086799    -1.155797    -0.109626    1.000000    1.173571    2.178651

502       + + + 0 0   0 0 + +   0 + +   + 0   -       det = -84
          -3.092166    -0.701975    -0.000000    0.000000    1.285519    2.508622

515       + + + 0 0   0 0 + 0   - + +   0 +   -       det = -80
          -3.114908    -0.745898    -0.618034    0.860806    1.618034    2.000000

517       + + + 0 0   0 0 + +   0 + +   + +   0       det = -80
          -3.000000    -0.000000    0.000000    0.000000    0.000000    3.000000

524       + + + 0 0   0 0 + +   - + 0   0 +   -       det = -64
          -3.000000    -1.000000    0.000000    0.000000    2.000000    2.000000

540       + + + + -   0 0 0 +   0 0 +   - +   +       det = -180
          -3.626198    -0.515138    -0.000000    1.000000    1.000000    2.141336

554       + + + + -   0 0 0 0   0 - +   - +   +       det = -204
          -3.710452    -0.440752    -0.000000    1.000000    1.384241    1.766963

573       + + + + -   0 0 0 +   0 - +   - 0   +       det = -165
          -3.592615    -0.618034    -0.158917    1.000000    1.618034    1.751532

594       + + + 0 0   0 - + +   - + 0   + +   0       det = -148
          -3.514061    -0.669443    -0.000000    0.528409    1.478160    2.176935

617       + + + + -   0 0 - +   - 0 +   0 +   0       det = -132
          -3.534418    -1.082748    0.407145    1.000000    1.511053    1.698969

626       + + + 0 0   0 - + 0   - 0 +   + +   -       det = -125
          -3.449490    -0.618034    -0.618034    1.449490    1.618034    1.618034
```

```
642      + + + + 0   0 0 0 0   - - +   - +   +      det = -189
     -3.690306   -0.753441    0.578441    1.000000    1.000000    1.865307

656      + + + 0 -   0 0 0 +   - + +   + +   0      det = -144
     -3.561553   -1.000000    0.561553    1.000000    1.000000    2.000000

668      + + + + 0   0 0 0 +   0 - +   - +   +      det = -144
     -3.460867   -0.349326    0.000000    0.000000    1.338712    2.471481

692      + + + + 0   0 0 - +   - 0 0   - +   +      det = -128
     -3.467932   -0.912755    0.000000    0.798880    1.581807    2.000000

713      + + + 0 0   0 0 + 0   - + +   + +   -      det = -141
     -3.497854   -0.729919   -0.150544    1.000000    1.187628    2.190688

721      + + + + 0   0 0 - +   - 0 +   0 +   +      det = -108
     -3.372281   -1.000000   -0.000000    1.000000    1.000000    2.372281

743      + + + 0 0   0 0 + +   - + +   + 0   -      det = -117
     -3.388490   -0.801938   -0.187284    0.554958    1.575773    2.246980

751      + + + 0 0   0 0 + +   0 + +   + +   -      det = -132
     -3.392344   -0.325397   -0.000000    0.000000    1.000000    2.717741

780      + + + + -   0 0 0 +   0 - +   - +   +      det = -240
     -3.895107   -0.397295   -0.000000    1.000000    1.292402    2.000000

796      + + + + -   0 0 - +   - 0 +   0 +   +      det = -189
     -3.828427   -1.000000    1.000000    1.000000    1.000000    1.828427

807      + + + + -   0 0 0 0   - - +   - +   +      det = -297
     -4.051374   -0.482696    1.000000    1.000000    1.000000    1.534070

847      + + + 0 -   0 0 0 +   - + +   + +   -      det = -213
     -3.858951   -0.779159    0.379146    1.000000    1.475815    1.783150

860      + + + 0 0   0 - + +   - + +   + +   0      det = -208
     -3.766435   -0.000000    0.000000    0.000000    1.282824    2.483612

900      + + + 0 0   0 - + +   - + 0   + +   -      det = -192
     -3.778457   -0.710831   -0.000000    1.000000    1.489289    2.000000

915      + + + + 0   0 0 0 +   - - +   - +   +      det = -216
     -3.820089   -0.459363    0.000000    1.000000    1.000000    2.279452

938      + + + + 0   0 0 - +   - 0 +   - +   +      det = -180
     -3.713585   -0.618034   -0.000000    0.482859    1.618034    2.230725

958      + + + 0 0   0 0 + +   - + +   + +   -      det = -189
     -3.732051   -0.414214   -0.267949    1.000000    1.000000    2.414214

973      + + + 0 0   - - + +   - + +   + +   0      det = -324
     -4.162278   -0.000000   -0.000000    1.000000    1.000000    2.162278

1005     + + + + -   0 0 0 +   - - +   - +   +      det = -324
     -4.201472   -0.545096    1.000000    1.000000    1.000000    1.746568
```

```
1049      + + + + -   0 0 - +   - 0 +   - +   +       det = -285
      -4.119027   -0.618034    0.431627    1.000000    1.618034   1.687400


1097      + + + 0 0   0 - + +   - + +   + +   -       det = -276
      -4.067786   -0.361621   -0.000000    1.000000    1.244636   2.184771


1110      + + + + 0   0 - - +   - - +   0 +   +       det = -256
      -4.000000   -0.000000   -0.000000   -0.000000    2.000000   2.000000


1155      + + + 0 0   - - + +   - + +   + +   -       det = -405
      -4.427879   -0.375664    1.000000    1.000000    1.000000   1.803542


1192      + + + 0 -   0 - + +   - + +   + +   -       det = -384
      -4.372281   -0.000000   -0.000000    1.000000    1.372281   2.000000


1226      + + + 0 -   - - + +   - + +   + +   -       det = -540
      -4.701562   -0.000000    1.000000    1.000000    1.000000   1.701562


1242      + + + - -   - - + +   - + +   + +   -       det = -729
      -5.000000    1.000000    1.000000    1.000000    1.000000   1.000000



       135      - - + + + +     1240
        84      - - + + + +     1224
        64      - - + + + +     1111
        60      - - + + + +     1190
        51      - - + + + +     1152
        44      - - + + + +     1094
        39      - - + + + +     1241
        36      - - + + + +     724,1217,1225
        35      - - + + + +     1044
        32      - - + + + +     940,1186
        28      - - + + + +     971,1172
        27      - - + + + +     792,1045,1148,1153
        24      - - + + + +     1212
        20      - - + + + +     1210,1220
        19      - - + + + +     825,1147
        16      - - + + + +     690,1000,1086,1183
        15      - - + + + +     1235
        12      - - + + + +     534,609,768,888,889,939,991,1001,
                                1082,1088,1095
        11      - - + + + +     742,951,1022,1040,1133,1138
         8      - - + + + +     407,913,988,1207
         7      + + + + + +     43,69,83,92,136,179,216,270,373,797,    43
                                1227
         7      - - + + + +     802,1232
         4      + + + + + +     37,53,78,81,91,95,109,140,144,166,    37
                                169,182,190,200,257,262,281,286,303,
                                314,389,401,464,541,595,717,902,974,
                                1193
         4      - - + + + +     316,546,602,723,909,990,1200,1205,
                                1214
         3      + + + + + +     38,60,80,88,102,126,133,152,162,178,    38
                                194,221,251,295,319,323,333,363,419,
                                438,453,484,555,619,634,696,726,781,
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                              808,942,1006,1112
  3      - - + + + +          338,424,446,494,564,565,710,728,785,
                              788,819,824,839,842,948,954,955,1017,
                              1023,1025,1028,1118,1126,1130,1134,
                              1136,1137,1144
  0      0 + + + + +          32,59,94,99,122,123,160,165,170,175,       32,94
                              183,230,238,239,265,275,280,288,310,
                              311,345,349,357,391,405,410,431,463,
                              474,477,497,505,506,509,522,528,578,
                              599,644,645,658,671,672,680,753,756,
                              861,863,922,978,1051,1156
  0      0 0 + + + +          237,329,508,519,520,648,685,849,851,
                              867,1098,1100,1104
  0      0 0 0 + + +          1108
  0      - 0 + + + +          289,359,398,414,436,465,475,501,514,
                              525,530,582,593,604,652,653,665,667,
                              677,678,688,689,760,762,764,772,855,
                              859,871,872,874,877,883,894,897,899,
                              923,933,934,936,981,986,989,1055,
                              1059,1066,1067,1070,1080,1089,1090,
                              1096,1105,1107,1109,1159,1164,1167,
                              1174,1175,1178,1187,1191
 -1      - - - + + +          1237
 -4      - + + + + +          26,48,131,159,173,186,187,229,231,         26
                              241,276,279,309,347,350,358,409,411,
                              430,433,476,496,499,511,523,526,529,
                              533,575,576,577,580,586,649,659,660,
                              670,674,675,746,747,748,750,757,763,
                              766,862,866,868,869,878,917,918,919,
                              925,926,960,961,963,965,966,967,1050,
                              1052,1054,1057,1063,1064,1065,1077,
                              1157,1163,1166,1168,1170,1173,1181
 -5      - + + + + +          89,127,132,153,161,164,177,196,222,        89
                              224,225,252,294,296,297,299,317,318,
                              322,324,325,335,336,364,365,367,421,
                              422,425,437,439,441,443,444,454,455,
                              457,458,460,483,486,488,491,492,556,
                              559,560,563,566,620,621,624,635,639,
                              641,695,699,700,701,702,703,707,725,
                              729,731,734,735,736,739,784,786,790,
                              809,810,811,813,818,820,821,823,826,
                              828,834,840,943,947,949,1008,1012,
                              1015,1016,1020,1024,1027,1029,1037,
                              1114,1115,1123,1124,1127,1131
 -8      - + + + + +          90,141,143,171,184,202,256,259,263,        90
                              266,284,292,304,313,392,396,402,468,
                              542,545,551,596,600,606,618,716,901,
                              904,910,979,982,993,1194,1198,1201
 -9      - + + + + +          93,137,180,181,217,271,374,375,376,        93,181
                              798,801,1228,1231
-12      - + + + + +          77,82,110,146,168,191,201,258,264,         77,82
                              285,287,302,306,394,403,466,470,544,
                              547,550,597,601,607,715,719,722,903,
                              908,914,975,983,996,1196,1197,1202,
                              1209,1219
-13      - + + + + +          79,128,135,195,197,223,250,255,321,        79
```

```
                              339,340,442,448,449,557,561,622,636,
                              698,704,711,727,732,741,744,815,827,
                              832,835,841,941,945,952,1007,1010,
                              1013,1014,1021,1034,1117,1119,1125
   -16    - + + + + +         23,58,100,125,236,278,308,328,330,           23,58
                              346,352,356,432,473,482,500,504,510,
                              518,532,579,584,585,647,657,661,664,
                              673,679,694,754,761,765,767,770,773,
                              848,850,853,854,858,864,865,885,886,
                              921,927,1053,1060,1062,1078,1099,
                              1101,1103,1162,1171,1180
   -17    - + + + + +         84,138,218,272,377,799,803,1229             84
   -20    - + + + + +         174,185,232,240,267,274,282,312,351,        174,185
                              393,404,412,415,467,478,495,498,507,
                              512,513,521,531,581,591,603,605,615,
                              650,651,676,682,684,686,693,758,771,
                              870,873,875,879,880,881,890,895,930,
                              931,932,980,984,1068,1071,1074,1084,
                              1087
   -21    - + + + + +         61,103,176,254,298,326,334,366,369,         61,176
                              371,420,440,451,461,489,493,567,570,
                              638,706,733,738,782,787,812,814,946,
                              950,957,1019,1030,1033,1039,1041,
                              1042,1113,1122,1129,1135,1145
   -24    - + + + + +         145,203,293,598,616,720,907,911,987,        145
                              998,1204,1213,1218
   -25    - + + + + +         70,219,804,1233                             70
   -28    - + + + + +         54,192,261,390,549,906,976,1206             54
   -29    - + + + + +         163,226,301,337,368,423,445,456,485,        163
                              568,574,709,794,816,829,1036,1116
   -32    - + + + + +         158,167,233,243,268,315,348,360,397,        158,167,315
                              413,418,429,469,516,537,589,611,612,
                              662,683,759,882,924,994,1069,1073,
                              1158,1189
   -33    - + + + + +         139,378,806,1234                            139
   -36    - + + + + +         49,130,172,188,290,291,361,395,417,         49,130,172,291
                              435,503,527,535,583,666,745,749,752,
                              774,892,920,937,962,964,969,970,992,
                              997,1056,1058,1061,1083,1091,1160,
                              1165,1179,1184,1188
   -37    - + + + + +         134,198,228,341,452,558,625,697,740,        134
                              833,843,1009,1018,1121
   -44    - + + + + +         142,204,543,1195                            142
   -45    - + + + + +         104,154,320,327,426,427,447,487,562,        104,154,320,327
                              571,623,640,705,708,712,730,737,783,
                              789,793,822,837,838,846,953,959,1026,
                              1031,1046,1047,1132,1139,1142,1150
   -48    - + + + + +         124,283,307,406,479,481,587,608,646,        124,283,307
                              655,663,691,769,778,898,929,999,1081,
                              1176
   -52    - + + + + +         277,353,538,590,592,681,876,887,935,        277
                              1079
   -53    - + + + + +         129,300,342,370,459,569,637,817,1140        129,300
   -60    - + + + + +         111,205,305,472,548,552,610,718,912,        111,205,305
                              985,1199,1203,1211,1223
   -64    - + + + + +         101,235,242,332,354,524,669,755,776,        101,235,242,524
```

		852,857,891,1102,1169	
-68	- + + + +	269,613	269
-69	- + + + +	253,343,490,643,714,791,831,845,944,	253,490
		956,1035,1048,1120,1128,1146,1154	
-72	- + + + +	260,399,553,905,1003,1215	260
-77	- + + + +	227,462,830	227,462
-80	- + + + +	515,517,687,856,884,1106	515,517
-81	- + + + +	273,379,380,800,1230,1236	273,380
-84	- + + + +	234,502,536,588,775,893,896,928,1076,	234,502
		1085	
-85	- + + + +	199,1011	199
-93	- + + + +	372,450,572,836,1032	372,450
-96	- + + + +	434,471,480,539,614,654,777,1002,	434,471,480
		1075,1093,1182	
-100	- + + + +	189,408,968	189,408
-105	- + + + +	220,805,1238	220
-108	- + + + +	193,721,916,977,1208,1221	193,721
-112	- + + + +	355	355
-116	- + + + +	416,1072	416
-117	- + + + +	428,743,795,1043	428,743
-125	- + + + +	626	626
-128	- + + + +	362,692,1161	362,692
-132	- + + + +	400,617,751,972,995,1092,1185	400,617,751
-141	- + + + +	344,713,844,1038,1143,1149	344,713
-144	- + + + +	331,656,668,779,1177	331,656,668
-148	- + + + +	594	594
-165	- + + + +	573	573
-180	- + + + +	540,938	540,938
-189	- + + + +	642,796,958,1141,1151	642,796,958
-192	- + + + +	900	900
-204	- + + + +	554,1222	554
-208	- + + + +	860	860
-213	- + + + +	847	847
-216	- + + + +	915,1004,1216	915
-240	- + + + +	780	780
-256	- + + + +	1110	1110
-276	- + + + +	1097	1097
-285	- + + + +	1049	1049
-297	- + + + +	807,1239	807
-324	- + + + +	973,1005	973,1005
-384	- + + + +	1192	1192
-405	- + + + +	1155	1155
-540	- + + + +	1226	1226
-729	- + + + +	1242	1242

Table 3

PARTITION BY LOCAL SWITCHING

```
    ORDER = 4

det  =    5      sig = + + + +
     8,9,16
     (8,9) (9,16)


det  =    4      sig = + + + +
     5,12,13
     (5,13) (12,13)


det  =    0      sig = 0 + + +
     11,14
     (11,14)


det  =   -3      sig = - + + +
     10,17
     (10,17)


det  =  -12      sig = - + + +
     15


det  =  -27      sig = - + + +
     18




    ORDER = 5

det  =    6      sig = + + + + +
     16,24,28,35,55,94
     (16,24) (16,28) (24,28) (24,55) (28,35) (28,55) (35,55) (35,94)
     (55,94)


det  =    4      sig = + + + + +
     13,19,27,30,32,41,48,59,66,70,86
     (13,19) (13,32) (13,41) (19,32) (19,59) (19,70) (19,86) (27,32)
     (27,41) (27,59) (27,66) (30,48) (32,41) (32,59) (32,70) (32,86)
     (41,48) (41,70) (48,59) (48,70) (59,66) (59,70) (59,86) (66,70)
     (66,86) (70,86)


det  =    2      sig = - - + + +
     99


det  =    0      sig = 0 + + + +
  1:  10,46,51,52,80,81
     (10,51) (10,80) (46,51) (46,52) (46,80) (46,81) (51,80) (52,81)
     (80,81)
  2:  31,42,47,61,72
```

```
     (31,47)  (42,47)  (42,72)  (47,61)  (47,72)  (61,72)


det =     0     sig = 0  0 + + +
     82


det =     0     sig = -  0 + + +
     75


det =    -4     sig = - + + + +
     26,33,43,50,60,62,65,67,73,76,87,90,91
     (26,33)  (26,43)  (26,60)  (26,65)  (33,43)  (33,60)  (33,73)  (33,87)
     (43,76)  (50,60)  (50,73)  (60,65)  (60,67)  (60,73)  (60,87)  (62,67)
     (62,91)  (65,67)  (65,76)  (65,87)  (67,73)  (67,87)  (67,90)  (73,87)
     (73,90)  (76,87)


det =    -6     sig = - + + + +
     29,36,56,95
     (29,36)  (29,56)  (36,56)  (36,95)  (56,95)


det =   -10     sig = - + + + +
     25,57,96
     (25,57)  (57,96)


det =   -12     sig = - + + + +
     20,69,71,89
     (20,71)  (20,89)  (69,71)  (69,89)  (71,89)


det =   -16     sig = - + + + +
  1: 45,53,83,84
     (45,53)  (45,83)  (53,83)  (83,84)
  2: 49,63,74
     (49,63)  (49,74)  (63,74)


det =   -18     sig = - + + + +
     37,98
     (37,98)


det =   -24     sig = - + + + +
     44,77
     (44,77)


det =   -28     sig = - + + + +
     34,88
     (34,88)


det =   -36     sig = - + + + +
     68,78,92
     (68,78)  (68,92)  (78,92)


det =   -40     sig = - + + + +
     64


det =   -48     sig = - + + + +
     54


det =   -54     sig = - + + + +
```

```
    58,97
    (58,97)

det =  -64    sig = - + + + +
    85

det =  -72    sig = - + + + +
    79

det = -108    sig = - + + + +
    93

det = -162    sig = - + + + +
    100




  ORDER = 6

det =   135    sig = - - + + + +
    1240

det =    84    sig = - - + + + +
    1224

det =    64    sig = - - + + + +
    1111

det =    60    sig = - - + + + +
    1190

det =    51    sig = - - + + + +
    1152

det =    44    sig = - - + + + +
    1094

det =    39    sig = - - + + + + .
    1241

det =    36    sig = - - + + + +
 1:  724,1217
    (724,1217)
 2:  1225

det =    35    sig = - - + + + +
    1044

det =    32    sig = - - + + + +
    940,1186
    (940,1186)

det =    28    sig = - - + + + +
 1:  971
 2:  1172
```

```
det =   27    sig = - - + + + +
 1:  792,1153
     (792,1153)
 2:  1045
 3:  1148


det =   24    sig = - - + + + +
     1212


det =   20    sig = - - + + + +
 1:  1210
 2:  1220


det =   19    sig = - - + + + +
 1:  825
 2:  1147


det =   16    sig = - - + + + +
 1:  690,1086,1183
     (690,1086) (1086,1183)
 2:  1000


det =   15    sig = - - + + + +
     1235


det =   12    sig = - - + + + +
 1:  534,1088,1095
     (534,1088) (1088,1095)
 2:  609,991
     (609,991)
 3:  768,888,889,939,1082
     (768,888) (888,889) (888,939) (888,1082) (939,1082)
 4:  1001


det =   11    sig = - - + + + +
 1:  742,951,1022,1040,1133
     (742,951) (742,1022) (742,1040) (951,1133) (1022,1040)
 2:  1138


det =    8    sig = - - + + + +
     407,913,988,1207
     (407,913) (913,988) (913,1207) (988,1207)


det =    7    sig = + + + + + +
     43,69,83,92,136,179,216,270,373,797,1227
     (43,83) (43,92) (69,83) (69,216) (83,92) (83,136) (83,216) (83,270)
     (92,136) (92,179) (92,270) (136,179) (136,216) (136,270) (136,373)
     (136,797) (179,373) (216,270) (216,797) (270,373) (270,797) (373,797)
     (373,1227) (797,1227)


det =    7    sig = - - + + + +
     802,1232
     (802,1232)


det =    4    sig = + + + + + +
```

37,53,78,81,91,95,109,140,144,166,169,182,190,200,257,262,281,286,303,
314,389,401,464,541,595,717,902,974,1193
(37,53) (37,81) (37,140) (37,169) (53,81) (53,109) (53,140) (53,190)
(53,262) (53,389) (53,541) (78,109) (78,262) (78,303) (81,190)
(81,200) (81,286) (91,140) (91,144) (91,169) (91,257) (91,262)
(95,182) (109,140) (109,262) (109,389) (109,541) (140,169) (140,200)
(140,262) (140,389) (140,541) (144,200) (144,257) (144,286) (144,401)
(144,595) (144,902) (166,169) (166,182) (166,262) (166,389) (166,464)
(169,286) (169,389) (182,281) (182,314) (182,464) (190,200) (190,541)
(190,595) (190,974) (190,1193) (200,286) (200,541) (200,595) (200,974)
(200,1193) (257,262) (257,303) (257,389) (257,401) (257,541) (257,595)
(257,902) (262,281) (262,303) (262,314) (262,389) (262,541) (262,595)
(281,286) (281,314) (281,389) (281,401) (281,464) (281,595) (281,974)
(286,389) (286,464) (286,974) (303,541) (303,595) (303,717) (314,595)
(389,464) (389,541) (389,974) (401,595) (401,902) (464,595) (464,974)
(541,595) (541,974) (541,1193) (595,717) (595,902) (595,974) (595,1193)
(717,902) (717,1193) (902,974) (902,1193) (974,1193)

det =   4   sig = - - + + + +
 1: 316,546,602,723,909,990,1200,1205
     (316,602) (546,602) (546,1200) (602,723) (602,909) (602,1200) (723,909)
     (723,1205) (909,990) (909,1205) (990,1205)
 2: 1214

det =   3   sig = + + + + + +
     38,60,80,88,102,126,133,152,162,178,194,221,251,295,319,323,333,363,419,
     438,453,484,555,619,634,696,726,781,808,942,1006,1112
     (38,60) (38,126) (38,152) (60,102) (60,126) (60,221) (60,333) (60,419)
     (60,634) (80,126) (80,194) (80,221) (80,251) (88,133) (88,162)
     (88,295) (88,323) (102,333) (102,363) (102,781) (102,808) (102,1112)
     (126,133) (126,152) (126,162) (126,221) (126,333) (126,419) (126,634)
     (133,162) (133,194) (133,221) (133,295) (133,333) (133,438) (133,453)
     (133,555) (133,696) (133,808) (152,162) (152,419) (162,221) (162,333)
     (162,363) (162,419) (162,453) (162,484) (178,295) (178,363) (178,438)
     (194,221) (194,251) (194,555) (194,619) (194,1006) (221,251) (221,295)
     (221,333) (221,419) (221,438) (221,453) (221,555) (221,634) (221,696)
     (221,808) (251,333) (251,438) (251,634) (251,726) (251,808) (251,942)
     (251,1006) (295,319) (295,323) (295,363) (295,438) (295,453) (295,555)
     (295,696) (295,808) (319,323) (319,438) (319,555) (319,619) (319,696)
     (319,726) (323,484) (323,696) (333,363) (333,419) (333,634) (333,781)
     (333,808) (333,1112) (363,438) (363,453) (363,484) (363,781) (363,808)
     (363,1112) (419,484) (419,634) (419,781) (438,453) (438,484) (438,555)
     (438,696) (438,726) (438,808) (438,942) (438,1006) (453,484) (453,555)
     (453,696) (453,808) (484,634) (484,696) (484,781) (484,808) (484,1112)
     (555,619) (555,696) (555,808) (555,1006) (619,726) (619,1006) (634,696)
     (634,1112) (696,726) (696,808) (696,1006) (696,1112) (726,808)
     (726,942) (726,1006) (781,808) (781,1112) (808,942) (808,1006)
     (808,1112) (942,1006) (942,1112)

det =   3   sig = - - + + + +
 1: 338,424,494,785,788,819,842,954,1118,1134,1136,1144
     (338,424) (338,785) (338,819) (338,1118) (424,788) (494,785) (494,819)
     (494,1144) (785,819) (785,1118) (785,1134) (788,1118) (819,954)
     (819,1118) (842,954) (842,1136) (954,1134) (954,1144) (1134,1144)
 2: 446,564,565,710,728,824,839,948,955,1017,1023,1025,1028,1126,1130,1137
     (446,564) (446,728) (446,824) (446,839) (446,948) (446,1017) (564,710)

(564,824) (564,1017) (565,710) (565,1023) (710,839) (710,1028)
(710,1126) (728,948) (728,1017) (728,1025) (824,955) (824,1126)
(839,1028) (839,1126) (948,955) (948,1017) (948,1025) (948,1130)
(955,1017) (955,1130) (955,1137) (1017,1028) (1130,1137)

det =   0   sig = 0 + + + + +
  1:   32,59,99,122,123,160,175,230,238,239,275,310,345,349,357,410,431,474,477,
       497,505,506,509,522,528,578,644,645,658,671,672,680,753,756,861,863,922,
       1051,1156
       (32,99) (32,122) (59,99) (59,122) (59,345) (59,474) (59,658) (59,671)
       (99,122) (99,345) (99,357) (99,753) (99,861) (99,1156) (122,239)
       (122,506) (122,644) (122,753) (123,238) (123,505) (123,645) (123,756)
       (160,230) (160,345) (160,357) (160,410) (160,431) (175,238) (175,239)
       (175,275) (175,497) (175,505) (175,506) (230,275) (230,410) (230,528)
       (238,349) (238,505) (238,645) (238,756) (239,345) (239,506) (239,644)
       (239,753) (275,345) (275,349) (275,410) (275,497) (275,528) (275,578)
       (275,671) (275,672) (275,680) (275,861) (275,863) (275,1051) (310,474)
       (310,578) (310,658) (345,357) (345,431) (345,474) (345,658) (345,671)
       (345,753) (345,861) (345,1156) (349,680) (349,756) (349,863) (357,410)
       (357,753) (357,861) (357,1156) (410,497) (410,671) (410,672) (410,861)
       (410,863) (410,1051) (431,528) (431,658) (431,922) (431,1051) (431,1156)
       (474,497) (474,644) (474,658) (474,671) (474,753) (477,497) (477,645)
       (477,672) (477,756) (497,505) (497,506) (497,578) (497,671) (497,672)
       (497,753) (497,756) (497,861) (497,863) (497,922) (497,1051) (505,506)
       (505,509) (505,522) (505,645) (505,680) (505,756) (505,863) (506,522)
       (506,644) (506,671) (506,753) (506,861) (509,522) (509,645) (509,672)
       (509,863) (522,861) (522,863) (528,578) (528,1051) (578,658) (578,671)
       (578,680) (578,922) (578,1051) (644,753) (645,756) (658,671) (658,753)
       (658,922) (658,1051) (658,1156) (671,672) (671,680) (671,861) (671,863)
       (671,1051) (672,861) (672,863) (672,1051) (680,863) (753,861) (753,1156)
       (756,863) (861,863) (861,922) (861,1051) (861,1156) (863,922) (863,1051)
       (922,1051) (922,1156) (1051,1156)
  2:   94,165,170,183,265,280,288,311,391,405,463,599,978
       (94,183) (165,170) (165,183) (165,265) (165,391) (165,463) (170,288)
       (170,391) (183,280) (183,311) (183,463) (265,280) (265,311) (265,391)
       (265,599) (280,288) (280,311) (280,391) (280,405) (280,463) (280,599)
       (280,978) (288,391) (288,463) (288,978) (311,599) (391,463) (391,978)
       (405,599) (463,599) (463,978) (599,978)

det =   0   sig = 0 0 + + + +
  1:   237,329,519,849,851,1098,1100,1104
       (237,329) (237,849) (237,1098) (237,1100) (329,849) (519,849) (519,851)
       (849,851) (849,1098) (849,1100) (849,1104) (851,1100) (1098,1100)
  2:   508,520,648,685,867
       (508,520) (508,648) (508,685) (508,867) (520,867) (685,867)

det =   0   sig = 0 0 0 + + +
       1108

det =   0   sig = - 0 + + + +
  1:   289,465,604,981
       (289,465) (289,981) (465,604) (465,981) (604,981)
  2:   359,414,475,501,514,525,582,593,653,665,667,677,678,689,760,762,772,871,
       872,877,883,894,897,923,933,934,936,1055,1066,1067,1070,1080,1089,1096,
       1159,1164,1167,1174,1175,1187
       (359,414) (359,872) (359,1159) (414,678) (414,883) (414,1070) (475,501)

```
     (475,653) (475,677) (475,760) (501,514) (501,582) (501,677) (501,760)
     (501,762) (501,871) (501,877) (501,923) (501,1055) (514,678) (514,772)
     (514,883) (525,872) (525,894) (582,667) (582,678) (582,923) (582,1055)
     (593,665) (593,689) (593,936) (593,1067) (653,760) (665,678) (665,772)
     (665,936) (665,1080) (665,1167) (667,689) (667,762) (667,923) (667,1066)
     (667,1164) (677,877) (677,1055) (678,883) (678,1070) (689,1089)
     (760,871) (762,877) (762,1164) (772,1167) (871,877) (871,923) (871,1066)
     (872,936) (872,1080) (872,1159) (877,923) (877,1055) (877,1164)
     (883,923) (883,933) (883,1055) (883,1070) (883,1167) (894,936)
     (894,1080) (897,934) (897,1096) (897,1175) (923,1055) (923,1066)
     (923,1164) (933,1070) (933,1174) (934,936) (934,1096) (934,1187)
     (936,1080) (936,1167) (1055,1164) (1066,1164) (1067,1096) (1067,1187)
     (1070,1159) (1080,1089) (1080,1167) (1089,1167) (1096,1187)
3:   398,986
     (398,986)
4:   436,530,1059,1178
     (436,530) (436,1059) (436,1178) (530,1059) (1059,1178)
5:   652
6:   688,874,899
     (688,899) (874,899)
7:   764
8:   855,859,1105,1107,1109
     (855,859) (855,1105) (855,1107) (859,1105) (1107,1109)
9:   989
10:  1090,1191
     (1090,1191)


det =   -1    sig = - - - + + +
     1237


det =   -4    sig = - + + + + +
     26,48,131,159,173,186,187,229,231,241,276,279,309,347,350,358,409,411,
     430,433,476,496,499,511,523,526,529,533,575,576,577,580,586,649,659,660,
     670,674,675,746,747,748,750,757,763,766,862,866,868,869,878,917,918,919,
     925,926,960,961,963,965,966,967,1050,1052,1054,1057,1063,1064,1065,1077,
     1157,1163,1166,1168,1170,1173,1181
     (26,48) (26,186) (26,229) (26,409) (48,186) (48,526) (48,575) (48,960)
     (48,1050) (131,186) (131,187) (131,409) (131,411) (131,575) (131,576)
     (131,746) (131,917) (131,918) (159,229) (159,231) (159,347) (159,358)
     (159,409) (159,411) (159,430) (173,241) (173,276) (173,496) (173,511)
     (186,229) (186,409) (186,526) (186,575) (186,960) (186,1050) (187,231)
     (187,411) (187,529) (187,576) (187,577) (187,961) (187,1052) (229,276)
     (229,409) (229,526) (231,411) (231,533) (241,347) (241,511) (241,649)
     (241,757) (276,347) (276,409) (276,496) (276,526) (276,575) (276,674)
     (276,862) (276,1050) (279,350) (279,529) (279,577) (279,675) (279,866)
     (279,1077) (309,476) (309,575) (309,576) (309,577) (309,580) (309,659)
     (309,660) (347,358) (347,430) (347,476) (347,660) (347,674) (347,757)
     (347,862) (347,868) (347,1157) (350,433) (350,476) (350,659) (350,675)
     (350,763) (350,866) (350,1166) (358,409) (358,411) (358,757) (358,862)
     (358,868) (358,1157) (409,411) (409,496) (409,674) (409,862) (409,1050)
     (411,674) (411,869) (411,1054) (430,526) (430,533) (430,660) (430,918)
     (430,1050) (430,1054) (430,1157) (433,529) (433,659) (433,917)
     (433,919) (433,1052) (433,1057) (433,1163) (433,1181) (476,496)
     (476,499) (476,649) (476,659) (476,660) (476,674) (476,675) (476,757)
     (476,766) (496,499) (496,511) (496,575) (496,674) (496,757) (496,862)
     (496,869) (496,917) (496,1050) (499,511) (499,576) (499,675) (499,757)
```

(499,766) (499,868) (499,869) (499,878) (499,918) (499,1052) (511,523)
(511,649) (511,674) (511,757) (511,862) (511,869) (523,862) (523,868)
(526,575) (526,960) (526,1050) (529,576) (529,577) (529,961) (529,965)
(529,1052) (529,1057) (533,961) (533,1054) (575,576) (575,660)
(575,674) (575,746) (575,917) (575,918) (575,960) (575,1050) (576,577)
(576,659) (576,660) (576,674) (576,746) (576,917) (576,918) (576,961)
(576,1052) (577,580) (577,659) (577,675) (577,747) (577,925) (577,961)
(577,1052) (580,659) (580,660) (580,675) (580,748) (580,918) (580,919)
(580,963) (580,1063) (586,670) (586,747) (586,926) (586,966) (649,757)
(649,766) (659,675) (659,766) (659,917) (659,919) (659,925) (659,1052)
(659,1057) (659,1163) (659,1168) (660,674) (660,757) (660,918)
(660,1050) (660,1054) (660,1064) (660,1157) (660,1163) (670,763)
(670,926) (670,1077) (670,1166) (670,1170) (674,862) (674,869)
(674,1050) (674,1054) (675,878) (675,1052) (675,1065) (746,748)
(746,917) (746,918) (746,960) (746,961) (746,1050) (746,1054) (747,750)
(747,925) (747,926) (747,963) (747,965) (747,1065) (747,1077) (748,918)
(748,919) (748,961) (748,967) (748,1052) (748,1064) (750,926) (750,963)
(750,965) (750,1057) (750,1063) (757,766) (757,862) (757,868) (757,869)
(757,1157) (757,1163) (763,866) (763,1166) (763,1170) (766,869)
(766,1163) (766,1168) (862,868) (862,918) (862,1050) (862,1157)
(866,925) (866,926) (866,1057) (866,1077) (866,1166) (868,869)
(868,918) (868,1064) (868,1157) (869,917) (869,918) (869,1052)
(869,1054) (869,1163) (878,919) (878,1052) (878,1173) (917,918)
(917,919) (917,1052) (917,1163) (918,919) (918,1050) (918,1054)
(918,1064) (918,1157) (918,1163) (919,1052) (919,1163) (919,1181)
(925,1057) (925,1168) (926,1077) (926,1166) (926,1170) (960,1050)
(961,1052) (961,1054) (963,1063) (963,1065) (965,1057) (965,1077)
(967,1064) (1050,1054) (1050,1157) (1052,1064) (1052,1163) (1052,1168)
(1054,1157) (1057,1063) (1057,1168) (1057,1181) (1063,1181) (1064,1163)
(1065,1077) (1065,1166) (1065,1173) (1077,1166)

det = -5   sig = - + + + + +
89,127,132,153,161,164,177,196,222,224,225,252,294,296,297,299,317,318,
322,324,325,335,336,364,365,367,421,422,425,437,439,441,443,444,454,455,
457,458,460,483,486,488,491,492,556,559,560,563,566,620,621,624,635,639,
641,695,699,700,701,702,703,707,725,729,731,734,735,736,739,784,786,790,
809,810,811,813,818,820,821,823,826,828,834,840,943,947,949,1008,1012,
1015,1016,1020,1024,1027,1029,1037,1114,1115,1123,1124,1127,1131
(89,132) (89,161) (89,294) (89,324) (127,132) (127,153) (127,161)
(127,222) (127,335) (127,422) (127,635) (132,161) (132,196) (132,222)
(132,225) (132,294) (132,335) (132,437) (132,454) (132,556) (132,695)
(132,809) (153,161) (153,421) (153,425) (161,225) (161,335) (161,365)
(161,421) (161,457) (161,483) (164,222) (164,336) (164,364) (164,422)
(164,454) (164,491) (177,294) (177,299) (177,364) (177,437) (177,441)
(196,225) (196,556) (196,560) (196,620) (196,1008) (196,1012) (222,252)
(222,294) (222,422) (222,437) (222,454) (222,556) (222,635) (222,695)
(222,809) (224,252) (224,439) (224,641) (224,703) (224,828) (225,335)
(225,421) (225,457) (225,563) (225,818) (252,336) (252,437) (252,439)
(252,639) (252,725) (252,729) (252,810) (252,943) (252,1012) (294,297)
(294,318) (294,324) (294,365) (294,437) (294,454) (294,457) (294,556)
(294,695) (294,809) (296,317) (296,325) (296,367) (296,455) (296,458)
(296,559) (296,700) (296,813) (297,318) (297,325) (297,364) (297,454)
(297,556) (297,701) (297,810) (299,365) (299,441) (299,457) (299,563)
(299,566) (299,811) (317,318) (317,325) (317,444) (317,559) (317,621)
(317,699) (317,734) (318,324) (318,325) (318,437) (318,443) (318,556)
(318,620) (318,695) (318,699) (318,725) (318,731) (322,439) (322,560)

(322,620) (322,703) (322,729) (324,483) (324,695) (325,486) (325,492)
(325,699) (325,707) (335,365) (335,421) (335,784) (335,809) (335,811)
(335,1114) (336,364) (336,639) (336,810) (336,1115) (364,437) (364,441)
(364,454) (364,491) (364,492) (364,810) (364,1115) (365,443) (365,457)
(365,483) (365,784) (365,809) (365,811) (365,1114) (367,444) (367,458)
(367,492) (367,813) (367,823) (367,1124) (421,786) (422,486) (422,492)
(422,635) (422,639) (422,784) (425,483) (425,635) (425,786) (437,439)
(437,441) (437,444) (437,454) (437,492) (437,556) (437,563) (437,695)
(437,725) (437,729) (437,809) (437,810) (437,811) (437,943) (437,1012)
(439,560) (439,703) (439,725) (439,729) (439,810) (439,828) (439,834)
(439,943) (439,1012) (441,491) (441,556) (441,566) (441,729) (441,809)
(441,811) (441,949) (441,1012) (443,458) (443,483) (443,559) (443,563)
(443,699) (443,731) (443,818) (443,820) (443,1016) (444,457) (444,492)
(444,556) (444,566) (444,699) (444,734) (444,811) (444,834) (444,1015)
(454,486) (454,491) (454,556) (454,695) (454,701) (454,809) (454,810)
(455,488) (455,700) (455,813) (457,483) (457,556) (457,563) (457,699)
(457,818) (458,486) (458,559) (458,699) (458,826) (460,488) (460,702)
(460,840) (483,486) (483,635) (483,695) (483,699) (483,786) (483,818)
(483,1114) (486,492) (486,635) (486,695) (486,699) (486,784) (486,820)
(486,1114) (488,700) (488,702) (488,790) (488,821) (488,1124) (491,701)
(491,784) (491,809) (491,1115) (492,639) (492,707) (492,784) (492,811)
(492,1123) (556,560) (556,620) (556,695) (556,699) (556,809) (556,1008)
(556,1012) (559,621) (559,699) (559,1020) (560,620) (560,834) (560,1008)
(560,1012) (563,811) (563,818) (563,1012) (563,1015) (563,1016)
(566,811) (566,1015) (566,1024) (620,725) (620,729) (620,731) (620,734)
(620,1008) (620,1012) (621,731) (621,734) (621,736) (621,1020)
(624,735) (624,739) (624,1029) (635,695) (635,699) (635,1114) (639,707)
(639,1123) (641,1131) (695,699) (695,731) (695,809) (695,818) (695,1008)
(695,1114) (699,811) (699,1016) (699,1114) (700,702) (700,735)
(700,739) (700,813) (700,821) (700,826) (700,1020) (700,1124) (701,729)
(701,731) (701,810) (701,820) (701,1012) (701,1115) (702,823) (702,1037)
(702,1124) (703,734) (703,736) (703,828) (703,834) (703,1015) (703,1127)
(707,725) (707,734) (707,810) (707,813) (707,820) (707,1016) (707,1123)
(725,729) (725,731) (725,734) (725,810) (725,943) (725,1012) (725,1016)
(729,731) (729,736) (729,810) (729,943) (729,949) (729,1012) (729,1015)
(731,809) (731,820) (731,943) (731,1008) (731,1012) (731,1016)
(734,735) (734,736) (734,813) (734,834) (734,947) (734,1015) (734,1016)
(735,739) (735,813) (735,947) (735,1020) (735,1027) (735,1037)
(736,828) (736,943) (736,1015) (736,1024) (736,1027) (739,821)
(739,1020) (784,809) (784,811) (784,820) (784,1114) (784,1123)
(786,818) (786,1114) (790,821) (809,811) (809,943) (809,1114) (810,943)
(810,1012) (810,1115) (811,1016) (811,1114) (813,823) (813,947)
(813,1124) (818,1008) (818,1114) (820,1016) (820,1123) (823,1037)
(823,1124) (826,1020) (826,1124) (828,943) (828,1131) (834,1015)
(834,1127) (943,949) (943,1012) (943,1115) (943,1123) (947,1127)
(949,1012) (949,1024) (949,1115) (1008,1012) (1012,1015) (1012,1016)
(1015,1016) (1015,1024) (1020,1027) (1115,1123)

det = -8   sig = - + + + + +
90,141,143,171,184,202,256,259,263,266,284,292,304,313,392,396,402,468,
542,545,551,596,600,606,618,716,901,904,910,979,982,993,1194,1198,1201
(90,141) (90,143) (90,171) (90,256) (90,263) (141,171) (141,202)
(141,263) (141,392) (141,542) (143,202) (143,256) (143,292) (143,402)
(143,596) (143,901) (171,292) (171,396) (184,284) (184,313) (184,468)
(202,292) (202,542) (202,596) (202,600) (202,979) (202,1194) (256,259)
(256,263) (256,304) (256,396) (256,402) (256,542) (256,596) (256,901)

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(259,266) (259,304) (259,392) (259,402) (259,542) (259,545) (259,606)
(259,904) (263,284) (263,304) (263,313) (263,392) (263,542) (263,596)
(266,304) (266,551) (266,618) (284,313) (284,392) (284,402) (284,468)
(284,596) (284,606) (284,979) (292,396) (292,993) (304,542) (304,545)
(304,600) (304,606) (304,716) (313,596) (313,600) (392,468) (392,542)
(392,545) (392,979) (396,542) (396,993) (402,596) (402,606) (402,901)
(402,904) (468,600) (468,606) (468,979) (468,982) (542,596) (542,600)
(542,979) (542,1194) (545,606) (545,982) (545,1198) (551,1201)
(596,600) (596,716) (596,901) (596,979) (596,1194) (600,606) (600,716)
(600,910) (600,979) (600,1194) (606,716) (606,904) (606,982) (606,1198)
(618,716) (618,904) (618,1201) (716,901) (716,904) (716,910) (716,1194)
(716,1198) (901,904) (901,993) (901,1194) (904,979) (904,1194)
(904,1198) (910,982) (910,1198) (979,1194) (979,1198) (982,1198)
(993,1194)
```

```
det =   -9    sig = - + + + + +
 1:  93,137,180,217,271,374,375,798,1228
      (93,137) (93,180) (93,271) (137,180) (137,217) (137,271) (137,374)
      (137,798) (180,374) (180,375) (217,271) (217,798) (271,375) (271,798)
      (374,375) (374,798) (374,1228) (375,798) (375,1228) (798,1228)
 2:  181,376,801,1231
      (181,376) (376,801) (376,1231) (801,1231)
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det =  -12    sig = - + + + + +
 1:  77,110,168,258,264,285,302,394,403,470,547,550,601,607,715,719,903,914,
     983,996,1196,1202,1209,1219
      (77,110) (77,264) (77,302) (110,264) (110,394) (110,547) (168,264)
      (168,394) (168,470) (258,264) (258,302) (258,394) (258,403) (258,547)
      (258,550) (258,607) (258,903) (264,302) (264,394) (264,547) (264,601)
      (285,403) (285,607) (285,996) (302,547) (302,601) (302,715) (394,547)
      (394,550) (394,983) (403,607) (403,903) (403,914) (470,601) (470,983)
      (547,601) (547,983) (547,1196) (550,1202) (601,715) (601,903) (601,983)
      (601,1196) (607,719) (607,903) (607,1209) (715,719) (715,903) (715,1196)
      (719,903) (719,1196) (719,1219) (903,983) (903,1196) (903,1202)
      (914,996) (914,1209) (983,1196) (983,1202) (996,1209)
 2:  82,146,191,201,287,306,466,544,597,722,908,975,1197
      (82,191) (82,201) (82,287) (146,201) (146,287) (146,597) (146,908)
      (191,201) (191,544) (191,597) (191,975) (191,1197) (201,287) (201,544)
      (201,597) (201,975) (201,1197) (287,466) (287,975) (306,544) (306,597)
      (306,722) (466,597) (466,975) (544,597) (544,975) (544,1197) (597,722)
      (597,908) (597,975) (597,1197) (722,908) (722,1197) (908,975) (908,1197)
      (975,1197)
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det =  -13    sig = - + + + + +
     79,128,135,195,197,223,250,255,321,339,340,442,448,449,557,561,622,636,
     698,704,711,727,732,741,744,815,827,832,835,841,941,945,952,1007,1010,
     1013,1014,1021,1034,1117,1119,1125
      (79,128) (79,195) (79,223) (79,250) (128,223) (128,339) (128,340)
      (128,636) (135,195) (135,223) (135,340) (135,557) (135,698) (135,832)
      (195,223) (195,250) (195,255) (195,557) (195,1007) (195,1014) (197,255)
      (197,1010) (197,1021) (223,250) (223,340) (223,442) (223,636) (223,704)
      (223,827) (250,255) (250,339) (250,442) (250,636) (250,727) (250,827)
      (250,941) (250,1007) (255,340) (255,636) (255,815) (255,945) (255,1034)
      (321,442) (321,448) (321,561) (321,622) (321,704) (321,711) (321,727)
      (321,732) (339,636) (339,827) (339,1117) (339,1119) (340,636) (340,815)
      (340,1117) (340,1125) (442,449) (442,557) (442,704) (442,727) (442,815)
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(442,827) (442,941) (442,1007) (448,557) (448,711) (448,732) (448,832)
(448,1014) (449,561) (449,727) (449,835) (449,841) (449,952) (449,1013)
(557,698) (557,815) (557,832) (557,1007) (557,1014) (561,622) (561,835)
(561,1013) (622,727) (622,732) (622,741) (622,1013) (636,1119)
(698,732) (698,827) (698,832) (698,1007) (698,1117) (704,727) (704,741)
(704,827) (704,832) (704,835) (704,1014) (704,1125) (711,815) (711,1034)
(711,1125) (727,732) (727,741) (727,827) (727,941) (727,952) (727,1007)
(727,1013) (727,1014) (727,1034) (732,832) (732,952) (732,1007)
(732,1014) (741,835) (741,1014) (744,1021) (815,945) (815,1034)
(815,1117) (815,1125) (827,941) (827,1007) (827,1117) (827,1119)
(832,1014) (832,1125) (941,945) (941,1007) (941,1119) (945,952)
(945,1007) (945,1010) (945,1034) (945,1117) (945,1119) (952,1013)
(952,1034) (952,1117) (952,1125) (1007,1014) (1010,1021) (1014,1034)
(1117,1119) (1117,1125)

det = -16   sig = - + + + + +
1: 23,236,328,330,518,848,850,853,854,858,1099,1101,1103
    (23,328) (23,848) (236,328) (236,330) (236,848) (236,850) (236,1099)
    (328,848) (330,850) (330,853) (518,848) (518,850) (518,853) (518,854)
    (848,850) (848,1099) (850,853) (850,854) (850,1099) (853,854) (853,858)
    (853,1103) (854,1099) (854,1101) (854,1103) (858,1103) (1099,1101)
2: 58,100,125,278,308,346,352,356,432,473,482,500,504,510,532,579,584,585,
    647,657,661,664,673,679,694,754,761,765,767,770,773,864,865,885,886,921,
    927,1053,1060,1062,1078,1162,1171,1180
    (58,100) (58,125) (58,346) (58,473) (58,657) (58,673) (100,125)
    (100,346) (100,754) (100,761) (100,864) (100,1162) (125,647) (125,770)
    (278,346) (278,352) (278,532) (278,579) (278,673) (278,679) (278,864)
    (278,865) (278,1078) (308,473) (308,482) (308,579) (308,584) (308,657)
    (308,664) (346,432) (346,473) (346,657) (346,673) (346,754) (346,761)
    (346,864) (346,1162) (352,679) (352,765) (352,865) (356,432) (356,661)
    (356,1171) (432,532) (432,657) (432,661) (432,921) (432,1053) (432,1060)
    (432,1162) (432,1180) (473,500) (473,647) (473,657) (473,673) (473,754)
    (482,647) (482,664) (482,770) (500,510) (500,584) (500,673) (500,754)
    (500,767) (500,864) (500,886) (500,921) (500,1053) (504,585) (504,761)
    (504,765) (504,864) (504,865) (504,927) (504,1062) (510,694) (510,773)
    (510,885) (532,579) (532,584) (532,1053) (532,1060) (579,584) (579,657)
    (579,673) (579,679) (579,921) (579,1053) (584,585) (584,664) (584,694)
    (584,921) (584,927) (584,1053) (585,661) (585,921) (585,927) (585,1062)
    (647,754) (647,770) (657,661) (657,673) (657,770) (657,921) (657,1053)
    (657,1162) (661,761) (661,921) (661,1053) (661,1162) (661,1180)
    (664,754) (664,927) (664,1078) (664,1162) (673,679) (673,886) (673,1053)
    (679,886) (694,885) (754,761) (754,864) (754,1162) (761,864) (761,1162)
    (761,1180) (765,865) (767,886) (770,1162) (864,865) (864,886) (864,921)
    (864,927) (864,1060) (864,1078) (864,1162) (865,886) (865,927)
    (865,1078) (885,921) (885,1053) (886,921) (886,1053) (921,927)
    (921,1053) (921,1060) (921,1162) (927,1078) (927,1162) (1053,1078)
    (1053,1162) (1060,1062) (1060,1180) (1062,1180) (1078,1162)

det = -17   sig = - + + + + +
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    (84,138) (84,218) (84,272) (138,218) (138,377) (138,803) (218,799)
    (218,803) (272,377) (272,799) (377,799) (377,1229) (799,1229) (803,1229)

det = -20   sig = - + + + + +
1: 174,232,240,274,351,412,415,478,495,498,507,512,513,521,531,581,591,650,
    651,676,682,684,686,693,758,771,870,873,875,879,880,881,890,895,930,931,

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       932,1068,1071,1074,1084,1087
       (174,240) (174,274) (174,495) (174,507) (232,274) (232,412) (232,531)
       (240,351) (240,507) (240,650) (240,758) (274,351) (274,412) (274,495)
       (274,531) (274,581) (274,676) (274,684) (274,875) (274,1068) (351,684)
       (351,758) (351,870) (351,875) (412,415) (412,495) (412,676) (412,875)
       (412,1068) (415,676) (415,881) (415,1071) (478,495) (478,498) (478,650)
       (478,676) (478,682) (478,758) (478,771) (495,498) (495,507) (495,581)
       (495,676) (495,758) (495,875) (495,890) (495,930) (495,1068) (498,507)
       (498,591) (498,682) (498,758) (498,771) (498,870) (498,879) (498,881)
       (498,931) (498,1074) (507,513) (507,521) (507,650) (507,684) (507,758)
       (507,875) (507,890) (512,513) (512,521) (512,651) (512,686) (512,880)
       (512,895) (513,521) (513,650) (513,676) (513,875) (513,881) (521,870)
       (521,873) (521,875) (521,880) (531,581) (531,1068) (581,591) (581,684)
       (581,930) (581,1068) (591,684) (591,931) (591,1074) (650,758) (650,771)
       (676,686) (676,875) (676,881) (676,1068) (676,1071) (682,693) (682,879)
       (682,1074) (682,1087) (684,686) (684,875) (684,880) (684,890) (686,875)
       (686,880) (686,895) (693,879) (758,870) (758,875) (758,890) (771,881)
       (870,875) (870,881) (870,895) (870,931) (870,1084) (873,880) (873,890)
       (875,880) (875,931) (875,1068) (879,932) (879,1074) (881,895) (881,931)
       (881,1071) (890,930) (890,1074) (930,932) (930,1074) (931,1068)
       (931,1071) (931,1084) (932,1074) (1068,1071)
  2:   185,267,282,312,393,404,467,603,605,615,980,984
       (185,282) (185,312) (185,467) (267,282) (267,312) (267,393) (267,605)
       (282,312) (282,393) (282,404) (282,467) (282,605) (282,615) (282,980)
       (312,603) (312,605) (393,467) (393,980) (404,605) (404,615) (467,603)
       (467,615) (467,980) (467,984) (603,605) (603,615) (603,980) (605,980)
       (615,984)


det =  -21    sig = - + + + + +
  1:   61,103,254,326,334,420,489,638,706,782,814,946,1033,1113,1122
       (61,103) (61,334) (61,420) (61,638) (103,334) (103,782) (103,814)
       (103,1113) (103,1122) (254,334) (254,638) (254,814) (254,946) (254,1033)
       (326,489) (326,706) (334,420) (334,638) (334,782) (334,814) (334,1113)
       (334,1122) (420,489) (420,638) (420,782) (489,638) (489,706) (489,782)
       (489,814) (489,1122) (638,706) (638,1122) (706,814) (706,1033)
       (706,1122) (782,814) (782,1113) (782,1122) (814,946) (814,1033)
       (814,1113) (814,1122) (946,1033) (946,1113) (946,1122) (1113,1122)
  2:   176,298,366,369,371,440,451,461,493,567,570,733,738,787,812,950,957,1019,
       1030,1039,1041,1042,1129,1135,1145
       (176,298) (176,366) (176,440) (298,369) (298,440) (298,461) (298,567)
       (298,570) (298,812) (366,440) (366,493) (366,1129) (369,461) (369,787)
       (369,812) (371,451) (371,493) (371,1135) (440,451) (440,493) (440,567)
       (440,570) (440,733) (440,812) (440,950) (440,1030) (451,493) (451,567)
       (451,812) (451,1019) (461,570) (493,787) (493,812) (493,1145) (567,812)
       (567,1019) (570,812) (570,1030) (733,738) (733,950) (733,1019)
       (733,1030) (738,950) (738,1039) (738,1041) (738,1042) (787,812)
       (950,957) (950,1030) (950,1039) (950,1129) (950,1145) (957,1039)
       (957,1129) (1039,1042) (1129,1145)


det =  -24    sig = - + + + + +
       145,203,293,598,616,720,907,911,987,998,1204,1213,1218
       (145,203) (145,293) (145,598) (145,907) (203,293) (203,598) (203,987)
       (203,1204) (293,998) (598,720) (598,907) (598,987) (598,1204) (616,720)
       (616,911) (616,1213) (720,907) (720,911) (720,1204) (720,1218)
       (907,911) (907,998) (907,1204) (911,987) (911,1204) (911,1218)
       (987,1204) (987,1218) (998,1204)
```

```
det =  -25    sig = - + + + + +
    70,219,804,1233
    (70,219) (219,804) (804,1233)


det =  -28    sig = - + + + + +
    54,192,261,390,549,906,976,1206
    (54,192) (54,390) (54,549) (192,976) (192,1206) (261,390) (261,549)
    (261,906) (390,549) (390,976) (549,1206) (906,976) (906,1206) (976,1206)


det =  -29    sig = - + + + + +
    163,226,301,337,368,423,445,456,485,568,574,709,794,816,829,1036,1116
    (163,226) (163,337) (163,368) (163,423) (163,456) (163,485) (226,423)
    (226,456) (226,568) (226,829) (301,368) (301,456) (301,568) (301,816)
    (337,368) (337,816) (337,1116) (368,445) (368,456) (368,485) (368,816)
    (368,1116) (423,794) (445,485) (445,568) (445,574) (445,829) (445,1036)
    (456,485) (456,568) (456,709) (456,829) (485,709) (485,794) (485,829)
    (485,1116) (568,829) (568,1036) (709,816) (709,1036) (709,1116)
    (794,829) (816,1036) (816,1116)


det =  -32    sig = - + + + + +
 1:  158,233,243,348,360,413,418,429,516,537,589,662,683,759,882,924,1069,1073,
     1158,1189
     (158,233) (158,348) (158,360) (158,413) (158,429) (233,413) (233,537)
     (243,348) (243,759) (348,360) (348,429) (348,662) (348,759) (348,1158)
     (360,413) (360,418) (360,759) (360,1158) (413,418) (413,683) (413,882)
     (413,1069) (418,1073) (429,537) (429,662) (429,924) (429,1069)
     (429,1158) (516,683) (516,882) (537,1069) (589,662) (589,924) (662,759)
     (662,924) (662,1069) (662,1158) (662,1189) (683,882) (683,1069)
     (759,1158) (759,1189) (882,924) (882,1069) (924,1069) (924,1158)
     (1069,1073) (1069,1158) (1073,1158)
 2:  167,268,397,469,612,994
     (167,268) (167,397) (167,469) (268,397) (268,612) (397,994) (469,612)
     (469,994) (612,994)
 3:  315,611
     (315,611)


det =  -33    sig = - + + + + +
    139,378,806,1234
    (139,378) (139,806) (378,1234) (806,1234)


det =  -36    sig = - + + + + +
 1:  49,435,527,535,752,964,969,1056,1058,1179
     (49,527) (49,964) (49,1056) (435,527) (435,535) (435,1056) (435,1058)
     (435,1179) (527,964) (527,1056) (535,969) (535,1058) (752,964)
     (752,969) (752,1056) (752,1058) (964,1056) (969,1058) (1056,1058)
     (1056,1179) (1058,1179)
 2:  130,188,361,417,503,583,666,745,749,774,892,920,937,962,970,1061,1083,
     1091,1160,1165,1184,1188
     (130,188) (130,417) (130,583) (130,745) (130,920) (188,417) (188,583)
     (188,962) (188,1061) (361,417) (361,1160) (417,1091) (503,583)
     (503,774) (503,892) (503,920) (503,1061) (583,666) (583,745) (583,920)
     (583,962) (583,1061) (666,774) (666,920) (666,1083) (666,1165)
     (666,1184) (745,749) (745,920) (745,962) (745,1091) (749,920) (749,937)
     (749,962) (749,970) (749,1061) (749,1083) (774,892) (774,1165)
     (774,1184) (892,920) (892,1083) (892,1165) (920,1083) (920,1165)
```

        (937,1188) (962,1061) (962,1091) (970,1083) (1061,1083) (1061,1184)
        (1083,1165) (1083,1184) (1091,1160)
3:   172,290,395,992
        (172,290) (172,395) (290,395) (290,992) (395,992)
4:   291,997
        (291,997)

det = -37   sig = - + + + + +
      134,198,228,341,452,558,625,697,740,833,843,1009,1018,1121
        (134,198) (134,228) (134,341) (134,558) (134,697) (134,833) (198,228)
        (198,558) (198,1009) (198,1018) (228,341) (228,843) (341,1121)
        (452,558) (452,833) (452,1018) (558,697) (558,833) (558,1009) (558,1018)
        (625,740) (697,740) (697,833) (697,843) (697,1009) (697,1121) (740,833)
        (740,1009) (740,1018) (843,1009) (843,1121) (1009,1018)

det = -44   sig = - + + + + +
      142,204,543,1195
        (142,204) (142,543) (204,543) (204,1195) (543,1195)

det = -45   sig = - + + + + +
 1:   104,783,959,1132
        (104,783) (104,1132) (783,1132) (959,1132)
 2:   154,426,793
        (154,426) (426,793)
 3:   320,447,562,571,623,708,712,730,737,837,838,846,953,1026,1031,1047,1142,
      1150
        (320,447) (320,562) (320,623) (320,708) (320,730) (447,571) (447,708)
        (447,730) (447,837) (447,846) (447,1031) (562,623) (571,846) (571,1026)
        (571,1031) (623,730) (623,737) (708,846) (708,1047) (708,1142)
        (712,730) (712,737) (712,837) (712,838) (712,1031) (712,1150) (730,737)
        (730,837) (730,953) (730,1031) (730,1047) (737,838) (737,1026)
        (737,1031) (837,1031) (837,1150) (846,1047) (846,1142) (953,1150)
        (1026,1031) (1031,1047)
 4:   327,427,487,640,705,789,822,1046,1139
        (327,487) (327,705) (427,487) (427,640) (427,789) (487,640) (487,705)
        (487,789) (487,822) (487,1139) (640,705) (640,1139) (705,822) (705,1046)
        (705,1139) (789,822) (789,1139) (822,1046) (822,1139)

det = -48   sig = - + + + + +
 1:   124,481,646,769
        (124,646) (124,769) (481,646) (481,769) (646,769)
 2:   283,406,608,999
        (283,406) (283,608) (283,999) (406,608)
 3:   307,479,587,655,663,691,778,898,929,1081,1176
        (307,479) (307,587) (307,663) (479,655) (479,663) (479,778) (587,663)
        (587,691) (587,929) (655,778) (663,778) (663,929) (663,1081) (663,1176)
        (778,1176) (898,929) (898,1081) (929,1081) (929,1176) (1081,1176)

det = -52   sig = - + + + + +
      277,353,538,590,592,681,876,887,935,1079
        (277,353) (277,538) (277,590) (277,681) (277,876) (277,1079) (353,681)
        (353,876) (538,590) (590,592) (590,681) (592,681) (681,887) (876,935)
        (876,1079) (935,1079)

det = -53   sig = - + + + + +
 1:   129,342,637,1140

```
            (129,342)  (129,637)  (342,1140)  (637,1140)
2:    300,370,459,569,817
            (300,370)  (300,459)  (300,569)  (300,817)  (370,459)  (370,817)  (459,569)


det  =  -60      sig = - + + + + +
1:   111,548,1203
            (111,548)  (548,1203)
2:   205,1211
            (205,1211)
3:   305,472,552,610,718,912,985,1199,1223
            (305,552)  (305,610)  (305,718)  (472,610)  (472,985)  (552,610)  (552,985)
            (552,1199) (610,718)  (610,912)  (610,985)  (610,1199) (718,912)  (718,1199)
            (912,985)  (912,1199) (912,1223) (985,1199) (985,1223)


det  =  -64      sig = - + + + + +
1:   101,669,755,1169
            (101,755)  (101,1169) (669,755)  (669,1169) (755,1169)
2:   235,332,852,857,1102
            (235,332)  (235,852)  (235,1102) (332,852)  (852,857)  (852,1102) (857,1102)
3:   242,354,776
            (242,354)  (242,776)  (354,776)
4:   524,891
            (524,891)


det  =  -68      sig = - + + + + +
      269,613
            (269,613)


det  =  -69      sig = - + + + + +
1:   253,343,643,714,831,944,956,1035,1048,1120,1128,1154
            (253,343)  (253,643)  (253,831)  (253,944)  (253,1035) (343,643)  (343,831)
            (343,1120) (343,1128) (643,1154) (714,831)  (714,1035) (714,1128)
            (831,944)  (831,1035) (831,1120) (831,1128) (944,956)  (944,1035)
            (944,1120) (944,1154) (956,1035) (956,1048) (956,1120) (956,1128)
            (1120,1128) (1120,1154)
2:   490,791,845,1146
            (490,791)  (490,845)  (490,1146) (791,845)


det  =  -72      sig = - + + + + +
      260,399,553,905,1003,1215
            (260,399)  (260,553)  (260,905)  (399,553)  (399,1003) (553,1215) (905,1003)
            (905,1215) (1003,1215)


det  =  -77      sig = - + + + + +
1:   227,830
            (227,830)
2:   462


det  =  -80      sig = - + + + + +
1:   515,687,884
            (515,687)  (515,884)  (687,884)
2:   517,856,1106
            (517,856)  (856,1106)


det  =  -81      sig = - + + + + +
1:   273,379,800,1230
```

```
         (273,379) (273,800) (379,800) (379,1230) (800,1230)
    2:   380,1236
         (380,1236)


det =   -84    sig = - + + + + +
   1:   234,536
         (234,536)
   2:   502,588,775,893,896,928,1076,1085
         (502,588) (502,775) (502,893) (502,928) (502,1076) (588,928) (588,1076)
         (775,893) (893,896) (893,928) (893,1085) (928,1085)


det =   -85    sig = - + + + + +
         199,1011
         (199,1011)


det =   -93    sig = - + + + + +
   1:   372
   2:   450,572,836,1032
         (450,572) (450,836) (450,1032) (572,836) (572,1032)


det =   -96    sig = - + + + + +
   1:   434,539,1075,1093,1182
         (434,539) (434,1075) (434,1182) (539,1075) (1075,1093) (1075,1182)
         (1093,1182)
   2:   471,614,1002
         (471,614) (471,1002) (614,1002)
   3:   480,654,777
         (480,654) (480,777) (654,777)


det = -100    sig = - + + + + +
   1:   189,968
         (189,968)
   2:   408


det = -105    sig = - + + + + +
         220,805,1238
         (220,805) (805,1238)


det = -108    sig = - + + + + +
   1:   193,916,977,1208
         (193,977) (193,1208) (916,977) (916,1208) (977,1208)
   2:   721,1221
         (721,1221)


det = -112    sig = - + + + + +
         355


det = -116    sig = - + + + + +
         416,1072
         (416,1072)


det = -117    sig = - + + + + +
   1:   428,795
         (428,795)
   2:   743,1043
         (743,1043)
```

```
det = -125    sig = - + + + +
      626

det = -128    sig = - + + + +
 1:  362,1161
      (362,1161)
 2:  692

det = -132    sig = - + + + +
 1:  400,995
      (400,995)
 2:  617
 3:  751,972,1092,1185
      (751,972) (751,1092) (972,1092) (1092,1185)

det = -141    sig = - + + + +
 1:  344,1149
      (344,1149)
 2:  713,844,1038,1143
      (713,844) (713,1038) (713,1143) (844,1038) (844,1143)

det = -144    sig = - + + + +
 1:  331
 2:  656
 3:  668,779,1177
      (668,779) (668,1177) (779,1177)

det = -148    sig = - + + + +
      594

det = -165    sig = - + + + +
      573

det = -180    sig = - + + + +
 1:  540
 2:  938

det = -189    sig = - + + + +
 1:  642,1141
      (642,1141)
 2:  796
 3:  958,1151
      (958,1151)

det = -192    sig = - + + + +
      900

det = -204    sig = - + + + +
      554,1222
      (554,1222)

det = -208    sig = - + + + +
      860

det = -213    sig = - + + + +
```

```
     847

det = -216    sig = - + + + + +
     915,1004,1216
     (915,1004)  (915,1216)  (1004,1216)


det = -240    sig = - + + + + +
     780


det = -256    sig = - + + + + +
     1110


det = -276    sig = - + + + + +
     1097


det = -285    sig = - + + + + +
     1049


det = -297    sig = - + + + + +
     807,1239
     (807,1239)


det = -324    sig = - + + + + +
 1:  973
 2:  1005


det = -384    sig = - + + + + +
     1192


det = -405    sig = - + + + + +
     1155


det = -540    sig = - + + + + +
     1226


det = -729    sig = - + + + + +
     1242
```

Table 4

CLUSTERS FOR A$_k$, D$_k$, E$_k$ (k ≤ 8)

```
            CL(A7):
 1    ++++++   +++++   ++++   +++   ++   +
 2    ++++++   ++++0   +++0   ++0   +0   0
 3    ++++++   +++00   ++00   +00   00   +
 4    ++++++   ++000   +000   000   ++   +
 5    +++++0   +++0+   ++00   +00   00   0
 6    +++++0   +++00   ++00   +00   00   +
 7    +++++0   ++00+   +000   000   +0   0
 8    +++++0   ++000   +000   000   ++   0
 9    ++++00   ++0+0   +00+   000   00   0
10    ++++00   ++0+0   +000   000   0+   0
11    ++++00   ++000   +000   000   ++   +
12    ++++00   ++000   +000   000   +0   +
13    ++++00   +00++   0000   +00   00   +
14    ++++00   +00+0   000+   +00   00   0
15    ++++00   +00+0   0000   +0+   00   0
16    ++++00   +00+0   0000   +00   00   +
17    +++000   +0+00   00+0   00+   00   0
18    +++000   +0+00   0000   0++   00   +
19    +++000   +0+00   0000   0+0   0+   0
20    +++000   +0+00   0000   0+0   00   +
21    +++000   +0000   0000   +00   ++   +
22    +++000   +0000   0000   +00   +0   +
23    ++0000   0+000   0+00   0+0   0+   0


            CL(D7):
24    ++++++   +++++   ++++   +++   ++   0
25    ++++++   +++++   +++0   ++0   +0   0
26    ++++++   ++++0   +++0   ++0   00   0
27    ++++++   ++++0   ++00   +00   00   +
28    ++++++   +++00   ++00   +00   00   0
29    ++++++   +++00   ++00   000   00   +
30    ++++++   +++00   +000   000   ++   +
31    ++++++   ++000   +000   000   ++   0
32    +++++0   ++++0   +++0   ++0   0+   -
33    +++++0   ++++0   ++0+   +00   00   0
34    +++++0   +++0+   ++00   +00   00   -
35    +++++0   +++0+   ++00   000   00   0
36    +++++0   +++0+   +000   000   ++   0
37    +++++0   +++00   ++00   00+   0-   0
38    +++++0   +++00   ++00   000   00   +
39    +++++0   +++00   +00+   000   +0   0
40    +++++0   +++00   +000   000   +0   +
41    +++++0   ++00+   +00+   00+   +-   -
42    +++++0   ++00+   +00+   000   +0   0
43    +++++0   ++00+   +000   000   +0   -
44    +++++0   ++00+   +000   000   00   0
45    +++++0   ++00+   0000   000   +0   0
46    +++++0   ++000   +000   000   ++   +
```

47	+++++0	++000	+000	000	0+	−
48	+++++0	++000	000+	00−	+0	0
49	+++++0	++000	0000	000	++	0
50	++++00	+++00	++00	0+0	−0	+
51	++++00	+++00	+0+0	00+	00	0
52	++++00	+++00	+0+0	000	00	+
53	++++00	++0+0	+00+	000	00	−
54	++++00	++0+0	+000	000	0+	+
55	++++00	++0+0	0++0	00+	00	0
56	++++00	++0+0	000+	00−	00	0
57	++++00	++0+0	0000	000	0+	0
58	++++00	++000	+000	000	++	0
59	++++00	++000	+000	00−	++	+
60	++++00	++000	0+00	0++	00	+
61	++++00	++000	0+00	0+0	0+	0
62	++++00	++000	0+00	0+0	00	+
63	++++00	++000	00++	0−−	00	+
64	++++00	++000	00+0	0−0	0+	0
65	++++00	++000	00+0	0−0	00	+
66	++++00	++000	0000	000	++	+
67	++++00	++000	0000	000	+0	+
68	++++00	+00++	0000	+00	00	0
69	++++00	+00++	0000	+00	0−	+
70	++++00	+00+0	00+0	+0+	00	0
71	++++00	+00+0	000+	+00	00	−
72	++++00	+00+0	000+	+00	0−	0
73	++++00	+00+0	000+	000	00	0
74	++++00	+00+0	0000	+0+	00	+
75	++++00	+00+0	0000	00+	0−	0
76	++++00	+00+0	0000	000	00	+
77	++++00	+0000	0000	0+0	−0	+
78	+++000	++000	0+00	000	++	+
79	+++000	++000	0+00	000	+0	+
80	+++000	++000	0+00	−00	++	+
81	+++000	++000	0+00	−00	+0	+
82	+++000	+0+00	00+0	00+	0+	0
83	+++000	+0+00	00+0	00+	−0	0
84	+++000	+0+00	0000	0++	+0	+
85	+++000	+0+00	0000	0++	00	0
86	+++000	+0+00	0000	0+0	0+	−
87	+++000	+0+00	000−	0++	00	+
88	+++000	+0000	0000	++0	0+	−
89	+++000	+0000	0000	+00	++	0
90	+++000	00+00	00+0	0−0	0+	0
91	+++000	00+00	00+0	0−0	00	+
92	+++000	00+00	0000	000	+0	+
93	++0000	0+000	0+00	0+0	0+	+

CL(E7):

94	++++++	+++++	++++	+++	+0	0
95	++++++	+++++	++++	++0	+0	0
96	++++++	+++++	++++	++0	0+	0
97	++++++	+++++	+++0	++0	0+	0
98	++++++	+++++	+++0	+00	00	+
99	++++++	+++++	++00	+00	00	+

100	++++++	+++++	++00	0+0	0+	+
101	++++++	++++0	+++0	++0	0+	0
102	++++++	++++0	+++0	+0+	00	0
103	++++++	++++0	+++0	+00	00	+
104	++++++	++++0	+++0	+00	00	0
105	++++++	++++0	++0+	+00	00	0
106	++++++	++++0	++0+	0++	00	0
107	++++++	++++0	++0+	0+0	0+	0
108	++++++	++++0	++00	+00	00	0
109	++++++	++++0	++00	0+0	0+	0
110	++++++	++++0	++00	0+0	00	0
111	++++++	++++0	+00+	00+	+0	0
112	++++++	++++0	+00+	000	+0	0
113	++++++	+++00	++00	0+0	0+	+
114	++++++	+++00	++00	0+0	00	+
115	++++++	+++00	++00	0+0	00	0
116	++++++	+++00	+0+0	00+	00	0
117	++++++	+++00	+0+0	000	0+	+
118	++++++	+++00	+0+0	000	0+	0
119	++++++	+++00	+000	000	+0	+
120	++++++	+++00	+000	000	+0	0
121	++++++	+++00	+000	000	00	+
122	++++++	++000	+000	000	+0	0
123	++++++	++000	0+00	0+0	+0	0
124	++++++	++000	0+00	0+0	0+	0
125	++++++	++000	0+00	000	00	+
126	+++++0	++++0	+++0	++0	0+	0
127	+++++0	++++0	+++0	+0+	0+	−
128	+++++0	++++0	+++0	+0+	00	0
129	+++++0	++++0	+++0	+0+	00	−
130	+++++0	++++0	++0+	+0+	00	−
131	+++++0	++++0	++0+	+00	00	−
132	+++++0	++++0	++0+	0++	00	0
133	+++++0	++++0	++0+	0+0	0+	−
134	+++++0	++++0	++0+	0+0	00	0
135	+++++0	++++0	++0+	0+0	00	−
136	+++++0	++++0	++00	+00	00	+
137	+++++0	++++0	++00	0+0	0+	0
138	+++++0	++++0	+00+	00+	+−	−
139	+++++0	++++0	+00+	000	+0	0
140	+++++0	++++0	+00+	000	+0	−
141	+++++0	+++0+	++00	0++	00	0
142	+++++0	+++0+	++00	0+0	0+	0
143	+++++0	+++0+	++00	0+0	00	0
144	+++++0	+++0+	++00	0+0	00	−
145	+++++0	+++0+	+0++	000	00	0
146	+++++0	+++0+	+0+0	0+0	0+	0
147	+++++0	+++0+	+0+0	0+0	0+	−
148	+++++0	+++0+	+0+0	0+0	00	−
149	+++++0	+++0+	+0+0	00+	00	−
150	+++++0	+++0+	+0+0	000	0+	0
151	+++++0	+++0+	+0+0	000	0+	−
152	+++++0	+++0+	+0+0	000	00	0
153	+++++0	+++0+	+000	000	+0	0
154	+++++0	+++0+	+000	000	+0	−
155	+++++0	+++0+	+000	000	00	0

156	+++++0	+++00	++00	0+0	0+	0
157	+++++0	+++00	++00	0+0	00	+
158	+++++0	+++00	++00	00+	00	0
159	+++++0	+++00	++00	00+	00	−
160	+++++0	+++00	+0+0	00+	00	0
161	+++++0	+++00	+0+0	00+	00	−
162	+++++0	+++00	+0+0	000	0+	0
163	+++++0	+++00	+00+	00+	+−	0
164	+++++0	+++00	+00+	00+	+−	−
165	+++++0	+++00	+00+	00+	0−	0
166	+++++0	+++00	+00+	000	+−	0
167	+++++0	+++00	+00+	000	00	0
168	+++++0	+++00	+00+	000	00	−
169	+++++0	+++00	+00+	000	0−	0
170	+++++0	+++00	+000	000	++	+
171	+++++0	+++00	+000	000	++	0
172	+++++0	+++00	+000	000	0+	−
173	+++++0	+++00	+000	000	00	+
174	+++++0	+++00	+000	00−	++	+
175	+++++0	++00+	+00+	00+	+0	0
176	+++++0	++00+	+00+	00+	+0	−
177	+++++0	++00+	+00+	00+	00	−
178	+++++0	++00+	+00+	000	+0	−
179	+++++0	++00+	+00+	000	+−	−
180	+++++0	++00+	+00+	000	00	−
181	+++++0	++00+	+000	000	00	−
182	+++++0	++00+	0+0+	0+0	+0	0
183	+++++0	++00+	0+0+	0+0	+0	−
184	+++++0	++00+	0+0+	0+0	00	0
185	+++++0	++00+	0+0+	0+0	00	−
186	+++++0	++00+	0+0+	000	00	0
187	+++++0	++00+	0+0+	000	00	−
188	+++++0	++00+	0+00	0+0	+0	0
189	+++++0	++00+	0+00	0+0	00	−
190	+++++0	++00+	0+00	00+	+0	0
191	+++++0	++00+	0+00	00+	+−	−
192	+++++0	++00+	0+00	00+	00	−
193	+++++0	++00+	0+00	00+	0−	0
194	+++++0	++00+	0+00	000	+0	0
195	+++++0	++00+	0+00	000	+−	0
196	+++++0	++00+	0+00	000	00	0
197	+++++0	++00+	0+00	000	0−	0
198	+++++0	++00+	000+	000	+0	0
199	+++++0	++00+	000+	000	+0	−
200	+++++0	++00+	000+	000	+−	−
201	+++++0	++000	+000	000	0+	0
202	+++++0	++000	+000	00−	++	+
203	+++++0	++000	0+00	0+0	0+	0
204	+++++0	++000	0+00	0+0	0+	−
205	+++++0	++000	0+00	00+	00	0
206	+++++0	++000	0+00	00+	00	−
207	+++++0	++000	0+00	000	00	+
208	+++++0	++000	000+	000	+0	0
209	+++++0	++000	000+	000	+0	−
210	+++++0	++000	0000	00−	++	+
211	+++++0	+000+	000+	+00	00	−

212	+++++0	+000+	000+	+0-	0-	0
213	+++++0	+000+	0000	+00	00	0
214	+++++0	+000+	0000	+00	00	-
215	+++++0	+000+	0000	+00	0-	0
216	++++00	+++00	++00	0+0	0+	+
217	++++00	+++00	++00	0+0	00	+
218	++++00	+++00	+0+0	0+0	-+	0
219	++++00	+++00	+0+0	00+	0-	0
220	++++00	+++00	+0+0	00+	--	0
221	++++00	+++00	+0+0	000	0+	+
222	++++00	+++00	+0+0	000	0+	0
223	++++00	+++00	+0+0	000	-0	+
224	++++00	+++00	+0+0	00-	0+	+
225	++++00	+++00	+000	000	++	+
226	++++00	+++00	+000	000	+0	+
227	++++00	+++00	+000	00-	++	+
228	++++00	++0+0	+000	000	-+	0
229	++++00	++0+0	+000	00-	0+	+
230	++++00	++0+0	0+0+	0+0	0+	0
231	++++00	++0+0	0+0+	0+0	00	0
232	++++00	++0+0	0+0+	0+0	-+	0
233	++++00	++0+0	0+0+	0+0	-0	0
234	++++00	++0+0	0+0+	0+-	-+	-
235	++++00	++0+0	0+0+	0+-	-0	0
236	++++00	++0+0	0+0+	000	00	-
237	++++00	++0+0	0+0+	000	-0	0
238	++++00	++0+0	0+0+	00-	-0	0
239	++++00	++0+0	0+00	0+0	0+	+
240	++++00	++0+0	0+00	0+0	0+	0
241	++++00	++0+0	0+00	0+0	-+	0
242	++++00	++0+0	0+00	0+0	-+	-
243	++++00	++0+0	0+00	00+	00	0
244	++++00	++0+0	0+00	00+	00	-
245	++++00	++0+0	0+00	00+	-0	0
246	++++00	++0+0	0+00	000	0+	+
247	++++00	++0+0	0+00	000	0+	0
248	++++00	++0+0	0+00	000	00	+
249	++++00	++0+0	0+00	000	-+	0
250	++++00	++0+0	0+00	000	-0	+
251	++++00	++0+0	000+	000	00	0
252	++++00	++0+0	000+	000	00	-
253	++++00	++0+0	0000	00-	0+	+
254	++++00	++000	0+0-	0++	00	+
255	++++00	++000	0+0-	00+	+0	+
256	++++00	++000	00++	000	00	+
257	++++00	++000	00++	000	0-	+
258	++++00	++000	00++	00-	00	+
259	++++00	++000	00++	00-	00	0
260	++++00	++000	00++	00-	-0	+
261	++++00	++000	00++	00-	-0	0
262	++++00	++000	00+0	00+	00	+
263	++++00	++000	00+0	00+	0-	0
264	++++00	++000	00+0	000	0+	+
265	++++00	++000	00+0	000	0+	0
266	++++00	++000	00+0	000	00	+
267	++++00	++000	00+0	000	-+	0

268	++++00	++000	00+0	000	-0	+
269	++++00	++000	0000	00-	++	+
270	++++00	+00++	0000	+00	0-	0
271	++++00	+00++	0000	+00	--	+
272	++++00	+00++	0000	+0-	-0	0
273	++++00	+00++	0000	000	0-	0
274	++++00	+00+0	00+0	+0+	0+	+
275	++++00	+00+0	00+0	+0+	00	+
276	++++00	+00+0	00+0	+0+	-+	0
277	++++00	+00+0	00+0	+0+	-0	+
278	++++00	+00+0	00+0	+0+	-0	0
279	++++00	+00+0	00+0	+00	00	+
280	++++00	+00+0	00+0	+00	-+	0
281	++++00	+00+0	00+0	00+	-0	0
282	++++00	+00+0	00+0	000	-+	0
283	++++00	+00+0	00+0	000	-0	+
284	++++00	+00+0	000+	000	0-	0
285	++++00	+00+0	000+	00-	-0	0
286	++++00	+00+0	0000	+0+	-0	+
287	++++00	+00+0	0000	+00	-0	+
288	++++00	+00+0	0000	00+	00	+
289	++++00	+00+0	0000	00+	00	0
290	++++00	+00+0	0000	00+	-0	0
291	++++00	+00+0	0000	000	-0	+
292	++++00	+00+0	000-	+0+	-0	+
293	++++00	+00+0	000-	00+	00	+
294	++++00	+0000	0000	0++	00	+
295	++++00	+0000	0000	0++	0-	+
296	++++00	+0000	0000	0++	0-	0
297	++++00	+0000	0000	0+0	0+	+
298	++++00	+0000	0000	0+0	00	+
299	++++00	+0000	000-	0++	00	+
300	+++000	++000	0+00	0+0	++	+
301	+++000	++000	0+00	0+0	++	0
302	+++000	++000	0+00	0+0	0+	0
303	+++000	++000	0+00	0+0	0+	-
304	+++000	++000	0+00	-+0	0+	+
305	+++000	++00-	0+00	0+0	++	+
306	+++000	+0+00	00+0	00+	0+	+
307	+++000	+0+00	00+0	00+	-+	0
308	+++000	+0+00	00+0	000	-+	0
309	+++000	+0+00	00+-	00+	0+	0
310	+++000	+0+00	0000	0++	+0	0
311	+++000	+0+00	0000	0+0	+0	+
312	+++000	+0+00	0000	-+0	0+	+
313	+++000	+0+00	0000	-+0	00	+
314	+++000	+0+00	000-	0++	0+	+
315	+++000	+0+00	000-	0++	0+	0
316	+++000	+0+0-	0000	00+	+0	+
317	+++000	+0000	0000	++0	0+	0
318	+++000	00++0	000+	0-0	0+	0
319	+++000	00++0	000+	0-0	00	0
320	+++000	00++0	0000	0-+	00	0
321	+++000	00+00	00+0	00+	+0	0
322	+++000	00+00	00+0	000	++	0
323	+++000	00+00	00+0	000	0+	0

324	+++000	00+00	00+0	000	0+	-
325	+++000	00+00	0000	-+0	0+	+
326	+++000	00+00	000-	-0+	+0	+

CL(A8):

1	+++++++	++++++	+++++	++++	+++	++	+
2	+++++++	+++++0	++++0	+++0	++0	+0	0
3	+++++++	++++00	+++00	++00	+00	00	+
4	+++++++	+++000	++000	+000	000	++	+
5	++++++0	++++0+	+++00	++00	+00	00	0
6	++++++0	++++00	+++00	++00	+00	00	+
7	++++++0	+++00+	++000	+000	000	+0	0
8	++++++0	+++000	++000	+000	000	++	0
9	++++++0	++000+	+0000	0000	++0	+0	0
10	+++++00	+++0+0	++00+	+000	000	00	0
11	+++++00	+++0+0	++000	+000	000	0+	0
12	+++++00	+++000	++000	+000	000	++	+
13	+++++00	+++000	++000	+000	000	+0	+
14	+++++00	++00++	+0000	0000	+00	00	+
15	+++++00	++00+0	+000+	0000	+00	00	0
16	+++++00	++00+0	+0000	0000	+0+	00	0
17	+++++00	++00+0	+0000	0000	+00	00	+
18	+++++00	++0000	+0000	0000	+++	00	+
19	+++++00	++0000	+0000	0000	++0	0+	0
20	+++++00	++0000	+0000	0000	++0	00	+
21	++++000	++0+00	+00+0	000+	000	00	0
22	++++000	++0+00	+00+0	0000	00+	00	0
23	++++000	++0+00	+0000	0000	0++	00	+
24	++++000	++0+00	+0000	0000	0+0	0+	0
25	++++000	++0+00	+0000	0000	0+0	00	+
26	++++000	++0000	+0000	0000	+++	++	+
27	++++000	++0000	+0000	0000	++0	++	0
28	++++000	++0000	+0000	0000	+00	++	+
29	++++000	++0000	+0000	0000	+00	+0	+
30	++++000	+00++0	0000+	+000	000	+0	0
31	++++000	+00++0	00000	+00+	000	+0	0
32	++++000	+00+00	000+0	+00+	000	00	0
33	++++000	+00+00	000+0	+000	000	0+	0
34	++++000	+00+00	00000	+0+0	000	0+	0
35	++++000	+00+00	00000	+000	000	++	+
36	++++000	+00+00	00000	+000	000	+0	+
37	+++0000	+0+000	00+00	00++	000	00	+
38	+++0000	+0+000	00+00	00+0	00+	00	0
39	+++0000	+0+000	00+00	00+0	000	00	+
40	+++0000	+0+000	00000	0++0	00+	+0	0
41	+++0000	+0+000	00000	0++0	000	++	0
42	+++0000	+0+000	00000	0+00	0+0	0+	0
43	+++0000	+0+000	00000	0+00	000	++	+
44	+++0000	+0+000	00000	0+00	000	+0	+
45	+++0000	+00000	00000	+000	+00	++	+
46	+++0000	+00000	00000	+000	+00	+0	+
47	++00000	0+0000	0+000	0+00	0+0	0+	0

CL(D8):

CL(D8):

48	+++++++	++++++	+++++	++++	+++	++	0
49	+++++++	++++++	++++0	+++0	++0	+0	0
50	+++++++	+++++0	++++0	+++0	++0	00	0
51	+++++++	+++++0	+++00	++00	+00	00	+
52	+++++++	++++00	+++00	++00	+00	00	0
53	+++++++	++++00	+++00	++00	000	00	+
54	+++++++	++++00	++000	+000	000	++	+
55	+++++++	+++000	++000	+000	000	++	0
56	+++++++	+++000	++000	0000	000	++	+
57	++++++0	+++++0	++++0	+++0	++0	0+	-
58	++++++0	+++++0	+++0+	++00	+00	00	0
59	++++++0	++++0+	+++00	++00	+00	00	-
60	++++++0	++++0+	+++00	++00	000	00	0
61	++++++0	++++0+	++000	+000	000	++	0
62	++++++0	++++00	+++00	++00	00+	0-	0
63	++++++0	++++00	+++00	++00	000	00	+
64	++++++0	++++00	++00+	+000	000	+0	0
65	++++++0	++++00	++000	+000	000	+0	+
66	++++++0	+++00+	++00+	+00+	00+	+-	-
67	++++++0	+++00+	++00+	+000	000	+0	0
68	++++++0	+++00+	++000	+000	000	+0	-
69	++++++0	+++00+	++000	+000	000	00	0
70	++++++0	+++00+	++000	0000	000	+0	0
71	++++++0	+++00+	+0000	0000	+++	+0	0
72	++++++0	+++000	++000	+000	000	++	+
73	++++++0	+++000	++000	+000	000	0+	-
74	++++++0	+++000	++000	000+	00-	+0	0
75	++++++0	+++000	++000	0000	000	++	0
76	++++++0	+++000	+000+	0000	++0	+0	0
77	++++++0	++000+	+000+	000+	++-	+-	-
78	++++++0	++000+	+000+	0000	++0	+0	0
79	++++++0	++000+	+0000	0000	++0	+0	-
80	++++++0	++000+	+0000	0000	++0	00	0
81	++++++0	++000+	00000	0000	++0	+0	0
82	++++++0	++0000	+0000	0000	++0	0+	-
83	+++++00	++++00	+++00	++00	0+0	-0	+
84	+++++00	++++00	++0+0	+00+	000	00	0
85	+++++00	++++00	++0+0	+000	000	00	+
86	+++++00	+++0+0	++00+	+000	000	00	-
87	+++++00	+++0+0	++00+	0000	000	00	0
88	+++++00	+++0+0	++000	+000	000	0+	+
89	+++++00	+++0+0	++000	000+	00-	00	0
90	+++++00	+++0+0	++000	0000	000	0+	0
91	+++++00	+++0+0	+000+	0000	++0	00	0
92	+++++00	+++0+0	+0000	0000	++0	0+	0
93	+++++00	+++000	++000	+000	000	++	0
94	+++++00	+++000	++000	+000	00-	++	+
95	+++++00	+++000	++000	00++	0--	00	+
96	+++++00	+++000	++000	00+0	0-0	0+	0
97	+++++00	+++000	++000	00+0	0-0	00	+
98	+++++00	+++000	++000	0000	000	++	+
99	+++++00	+++000	++000	0000	000	+0	+
100	+++++00	+++000	+00++	0000	+00	00	+
101	+++++00	+++000	+00+0	000+	+00	00	0
102	+++++00	+++000	+00+0	0000	+00	0+	0
103	+++++00	+++000	+00+0	0000	+00	00	+

104	+++++00	+++000	+0000	0000	+00	++	+
105	+++++00	+++000	+0000	0000	+00	+0	+
106	+++++00	++00++	+0000	0000	+00	00	0
107	+++++00	++00++	+0000	0000	+00	0-	+
108	+++++00	++00++	00000	0000	+00	00	+
109	+++++00	++00+0	+00+0	00+0	+-+	-0	0
110	+++++00	++00+0	+00+0	000+	+00	00	0
111	+++++00	++00+0	+00+0	0000	+0+	00	0
112	+++++00	++00+0	+000+	0000	+00	00	-
113	+++++00	++00+0	+000+	0000	+00	0-	0
114	+++++00	++00+0	+000+	0000	000	00	0
115	+++++00	++00+0	+0000	0000	+0+	0+	0
116	+++++00	++00+0	+0000	0000	+0+	00	+
117	+++++00	++00+0	+0000	0000	+0+	-0	0
118	+++++00	++00+0	+0000	0000	00+	0-	0
119	+++++00	++00+0	+0000	0000	000	00	+
120	+++++00	++00+0	0000+	000-	+00	00	0
121	+++++00	++00+0	00000	0000	+0+	00	0
122	+++++00	++00+0	00000	0000	+00	00	+
123	+++++00	++0000	+0000	0000	+++	+0	+
124	+++++00	++0000	+0000	0000	+++	00	0
125	+++++00	++0000	+0000	0000	++0	0+	-
126	+++++00	++0000	+0000	0000	0+0	-0	+
127	+++++00	++0000	+0000	000-	+++	00	+
128	+++++00	++0000	000++	00--	+00	00	+
129	+++++00	++0000	000+0	00-0	+0+	00	0
130	+++++00	++0000	000+0	00-0	+00	00	+
131	+++++00	++0000	00000	0000	+++	00	+
132	+++++00	++0000	00000	0000	++0	0+	0
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134	++++000	+++000	++000	0+00	-00	++	+
135	++++000	+++000	++000	0+00	-00	+0	+
136	++++000	+++000	+0+00	00+0	000	0+	0
137	++++000	+++000	+0+00	0000	000	++	+
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140	++++000	++0+00	+00+0	0000	00+	0+	0
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142	++++000	++0+00	+0000	0000	0++	+0	+
143	++++000	++0+00	+0000	0000	0++	00	0
144	++++000	++0+00	+0000	0000	0+0	0+	-
145	++++000	++0+00	+0000	000-	0++	00	+
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147	++++000	++0+00	0++00	00+0	00+	00	0
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149	++++000	++0+00	000++	00--	000	00	+
150	++++000	++0+00	000+0	00-0	00+	00	0
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152	++++000	++0+00	00000	0000	0++	00	+
153	++++000	++0+00	00000	0000	0+0	0+	0
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156	++++000	++0000	+0000	0000	++0	++	+
157	++++000	++0000	+0000	0000	++0	0+	-
158	++++000	++0000	+0000	0000	+00	++	0
159	++++000	++0000	+0000	000-	+++	++	+

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163	++++000	++0000	0+000	0+00	0+0	0+	0
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165	++++000	++0000	0+000	0+00	000	+0	+
166	++++000	++0000	00++0	0--0	00+	+0	0
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168	++++000	++0000	00+00	0-00	0++	00	+
169	++++000	++0000	00+00	0-00	0+0	0+	0
170	++++000	++0000	00+00	0-00	0+0	00	+
171	++++000	++0000	00+00	0-00	000	++	+
172	++++000	++0000	00+00	0-00	000	+0	+
173	++++000	++0000	00000	0000	++0	++	0
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175	++++000	++0000	00000	0000	+00	+0	+
176	++++000	+00++0	0000+	+000	000	+0	-
177	++++000	+00++0	0000+	+000	000	00	0
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179	++++000	+00++0	00000	+00+	00+	+0	0
180	++++000	+00++0	00000	+00+	000	++	0
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184	++++000	+00++0	00000	+000	0-+	+0	-
185	++++000	+00+00	00+00	+0+0	00+	00	0
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187	++++000	+00+00	000+0	+00+	000	0+	0
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189	++++000	+00+00	000+0	+00+	0-0	00	0
190	++++000	+00+00	000+0	+000	000	0+	+
191	++++000	+00+00	000+0	+000	0-0	0+	0
192	++++000	+00+00	000+0	000+	00-	00	0
193	++++000	+00+00	000+0	0000	000	0+	0
194	++++000	+00+00	00000	+0+0	000	++	+
195	++++000	+00+00	00000	+0+0	000	0+	-
196	++++000	+00+00	00000	+000	000	++	0
197	++++000	+00+00	00000	00+0	0-0	0+	0
198	++++000	+00+00	00000	00+0	0-0	00	+
199	++++000	+00+00	00000	0000	000	++	+
200	++++000	+00+00	00000	0000	000	+0	+
201	++++000	+00+00	0000-	+000	000	++	+
202	++++000	+00000	00000	0+00	-00	++	+
203	++++000	+00000	00000	0+00	-00	+0	+
204	++++00-	++0000	+0000	0000	++0	++	+
205	+++0000	++0000	0+000	0000	++0	++	0
206	+++0000	++0000	0+000	0000	+00	++	+
207	+++0000	++0000	0+000	0000	+00	+0	+
208	+++0000	++0000	0+000	-000	++0	++	0
209	+++0000	++0000	0+000	-000	+00	++	+
210	+++0000	++0000	0+000	-000	+00	+0	+
211	+++0000	+0+000	00+00	00++	0+0	00	+
212	+++0000	+0+000	00+00	00++	000	00	0
213	+++0000	+0+000	00+00	00++	-00	00	+
214	+++0000	+0+000	00+00	00+0	0+0	0+	0
215	+++0000	+0+000	00+00	00+0	00+	00	-

216	+++0000	+0+000	00+00	00+0	-00	00	+
217	+++0000	+0+000	00000	0++0	00+	+0	-
218	+++0000	+0+000	00000	0++0	00+	00	0
219	+++0000	+0+000	00000	0++0	000	0+	-
220	+++0000	+0+000	00000	0+00	0+0	0+	+
221	+++0000	+0+000	00000	0+00	000	++	0
222	+++0000	+0+000	00000	0+00	00-	++	+
223	+++0000	+0+000	0000-	0+0+	0+0	0+	0
224	+++0000	+0+000	0000-	0+0+	000	++	0
225	+++0000	+00000	00000	++00	0+0	-0	+
226	+++0000	+00000	00000	+000	++0	0+	-
227	+++0000	+00000	00000	+000	+00	++	0
228	+++0000	00+000	00+00	0-00	0+0	0+	0
229	+++0000	00+000	00+00	0-00	0+0	00	+
230	+++0000	00+000	00+00	0-00	000	+0	+
231	+++0000	00+000	00000	0000	+00	+0	+
232	++00000	0+0000	0+000	0+00	0+0	0+	-

CL(E8):

233	+++++++	++++++	+++++	++++	+++	+0	0
234	+++++++	++++++	+++++	++++	++0	0+	0
235	+++++++	++++++	+++++	+++0	++0	+0	0
236	+++++++	++++++	+++++	+++0	++0	0+	0
237	+++++++	++++++	+++++	++00	0+0	0+	+
238	+++++++	++++++	++++0	+++0	++0	0+	0
239	+++++++	++++++	++++0	+++0	+00	00	+
240	+++++++	++++++	++++0	++0+	0+0	0+	0
241	+++++++	++++++	++++0	++00	+00	00	+
242	+++++++	++++++	+++00	++00	+00	00	+
243	+++++++	++++++	+++00	++00	0+0	0+	+
244	+++++++	++++++	+++00	+000	000	++	+
245	+++++++	+++++0	++++0	+++0	++0	0+	0
246	+++++++	+++++0	++++0	+++0	+0+	00	0
247	+++++++	+++++0	++++0	+++0	+00	00	0
248	+++++++	+++++0	++++0	++0+	+00	00	0
249	+++++++	+++++0	++++0	++0+	0++	00	0
250	+++++++	+++++0	++++0	++00	+00	00	+
251	+++++++	+++++0	++++0	++00	0+0	0+	0
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253	+++++++	+++++0	+++0+	++00	+00	00	0
254	+++++++	+++++0	+++0+	++00	0+0	0+	0
255	+++++++	+++++0	+++0+	+0+0	0+0	0+	0
256	+++++++	+++++0	+++0+	+000	000	++	0
257	+++++++	+++++0	+++00	++00	+00	00	0
258	+++++++	+++++0	+++00	++00	0+0	00	+
259	+++++++	+++++0	+++00	++00	0+0	00	0
260	+++++++	+++++0	+++00	+00+	000	+0	0
261	+++++++	+++++0	+++00	+000	000	++	+
262	+++++++	+++++0	+++00	+000	000	+0	+
263	+++++++	+++++0	++00+	+00+	000	+0	0
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265	+++++++	+++++0	++000	+000	000	++	+
266	+++++++	+++++0	++000	+000	000	++	0
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268	+++++++	++++00	+++00	++00	0+0	0+	+

269	+++++++	++++00	+++00	++00	0+0	00	+
270	+++++++	++++00	+++00	++00	0+0	00	0
271	+++++++	++++00	+++00	+0+0	00+	00	0
272	+++++++	++++00	+++00	+0+0	000	0+	+
273	+++++++	++++00	+++00	+0+0	000	00	+
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275	+++++++	++++00	+++00	+000	000	+0	0
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280	+++++++	++++00	++0+0	0+0+	0+0	0+	0
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282	+++++++	++++00	++0+0	0+00	0+0	00	0
283	+++++++	++++00	++000	+000	000	+0	+
284	+++++++	++++00	++000	+000	000	+0	0
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289	+++++++	++++00	+00++	0000	+00	00	+
290	+++++++	++++00	+00+0	00+0	+0+	0+	+
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293	+++++++	++++00	+00+0	0000	+0+	00	+
294	+++++++	+++000	++000	+000	000	+0	0
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302	+++++++	+++000	+0+00	0000	0++	00	+
303	+++++++	+++000	+0+00	0000	0+0	0+	0
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385	++++++0	+++00	+++00	+00+	00+	+-	0
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387	++++++0	+++00	+++00	+00+	000	+0	0
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391	++++++0	+++00	+++00	+000	000	00	+
392	++++++0	+++00	+++00	+000	00-	++	+
393	++++++0	+++00	++0+0	+00+	000	00	0
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395	++++++0	+++00	++0+0	0++0	00+	00	0
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404	++++++0	+++00	++00+	+000	000	+-	0
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406	++++++0	+++00	++00+	+000	000	00	-
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414	++++++0	+++00	++00+	0+00	000	+0	0
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416	++++++0	+++00	++00+	0+00	000	00	0
417	++++++0	+++00	++00+	0+00	000	0-	0
418	++++++0	+++00	++000	+000	000	++	+
419	++++++0	+++00	++000	+000	000	++	0
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421	++++++0	+++00	++000	+000	00-	++	+
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423	++++++0	+++00	++000	0+00	0+0	0+	0
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425	++++++0	+++00	++000	0+00	00+	00	-
426	++++++0	+++00	++000	0+00	000	00	+
427	++++++0	+++00	+00++	00++	+0-	0-	+
428	++++++0	+++00	+00++	00+0	+00	00	+
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431	++++++0	+++00	+00++	0000	+00	00	0
432	++++++0	+++00	+00++	0000	+00	0-	+
433	++++++0	+++00	+00+0	00+0	+0+	00	0
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435	++++++0	+++00	+00+0	000+	+00	00	-
436	++++++0	+++00	+00+0	000+	+00	0-	0

437	++++++0	+++00	+00+0	0000	+0+	00	0
438	++++++0	+++00	+00+0	0000	+00	00	+
439	++++++0	+++00+	++00+	+00+	00+	+0	-
440	++++++0	+++00+	++00+	+00+	00+	00	-
441	++++++0	+++00+	++00+	+00+	000	+0	0
442	++++++0	+++00+	++00+	+00+	000	+-	-
443	++++++0	+++00+	++00+	+00+	000	00	-
444	++++++0	+++00+	++00+	+000	000	+0	-
445	++++++0	+++00+	++00+	+000	000	00	-
446	++++++0	+++00+	++00+	0+0+	0+0	+0	-
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763	+++++00	+++000	+0+00	00+0	000	-0	+
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1366	++++000	+00+00	000+-	000+	000	0+	0
1367	++++000	+00+00	00000	+0+0	000	++	0
1368	++++000	+00+00	00000	+0+0	-00	++	+
1369	++++000	+00+00	00000	+000	-+0	0+	+
1370	++++000	+00+00	00000	00++	000	+0	+
1371	++++000	+00+00	00000	00++	00-	+0	+
1372	++++000	+00+00	00000	00++	00-	+0	0
1373	++++000	+00+00	00000	00++	00-	00	+
1374	++++000	+00+00	00000	00++	00-	00	0
1375	++++000	+00+00	00000	00++	-00	00	+
1376	++++000	+00+00	00000	00+0	00+	++	+
1377	++++000	+00+00	00000	00+0	00+	00	+
1378	++++000	+00+00	00000	00+0	000	++	+
1379	++++000	+00+00	00000	00+0	000	++	0
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1381	++++000	+00+00	00000	00+0	000	0+	-
1382	++++000	+00+00	00000	00+0	-00	0+	0
1383	++++000	+00+00	00000	00+0	-00	00	+
1384	++++000	+00+00	00000	0000	-00	++	+
1385	++++000	+00+00	00000	0000	-00	+0	+
1386	++++000	+00+00	00000	000-	-0+	+0	+
1387	++++000	+00+00	0000-	00++	000	++	+
1388	++++000	+00+00	0000-	00++	000	00	+

1389	++++000	+00+00	0000-	00++	0-0	0+	+
1390	++++000	+00+00	0000-	00++	0-0	0+	0
1391	++++000	+00+00	0000-	00++	-00	00	+
1392	++++000	+00+00	0000-	00+0	00+	0+	0
1393	++++000	+00+00	0000-	000+	000	++	+
1394	++++000	+00+00	0000-	000+	000	++	0
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1396	++++000	+00+0-	00000	000+	000	+0	+
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1471	+++0000	00+000	00+00	0-+0	000	0+	+
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