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The Character Table of an Eight-Dimensional Orthogonal Group

By David C. Hunt

Abstract. This paper describes the calculation of the character table of the 8-dimensional orthogonal group of maximal index over the field with 3 elements. The group is of interest as it is a subgroup of relatively small index in the sporadic simple group $M(23)$ defined by B. Fischer [2]. The group also has an outer automorphism group of order 24, isomorphic to the symmetric group on 4 symbols.

1. Introduction. Let $O^+(n, q)$, n even, denote the group of orthogonal $n \times n$ matrices of maximal Witt index $n/2$ over the field $GF(q)$.

The order of $O^+(8, 3)$ is $2^{15} \cdot 3^{12} \cdot 5^2 \cdot 7 \cdot 13$. $O^+(8, 3)$ has a subgroup $S\Omega^+(8, 3)$ of index 4. The centre of $S\Omega^+(8, 3)$ is of order 2 and the factor group $PS\Omega^+(8, 3)$ is a simple group of order $2^{12} \cdot 3^{12} \cdot 5^2 \cdot 7 \cdot 13$. $PS\Omega^+(8, 3)$ is the simple Chevalley group known as $D_4(3)$.

2. Conjugacy Classes of $PS\Omega^+(8, 3)$. A theorem of Wall [4] gives the conjugacy classes in $O^+(8, 3)$. Those conjugacy classes containing elements of determinant 1 and which belong to the kernel of the spinorial norm lie in $S\Omega^+(8, 3)$. Some of those classes split into 2 or 4 conjugacy classes in $S\Omega^+(8, 3)$. The conjugacy classes in $PS\Omega^+(8, 3)$ come from forming the factor group of $S\Omega^+(8, 3)$ by its centre. $PS\Omega^+(8, 3)$ has 113 conjugacy classes and they are listed in Table 1 on the microfiche supplement.

3. Permutation Representations of Small Degree. $PS\Omega^+(8, 3)$ acts intransitively on the projective geometry $PG(8, 3)$ which consists of $(3^8 - 1)/(3 - 1) = 3280$ points. The group acts transitively on the points of lengths 0, 1 and 2, respectively. This gives a rank 3 permutation representation of degree 1120 and 2 different rank 3 permutation representations of degree 1080. The values of the corresponding permutation characters can easily be calculated for every conjugacy class in $PS\Omega^+(8, 3)$. The values of 2 of these permutation characters are given in columns of Table 1. The stabilizer of a point in the representation on 1080 points is $PS\Omega(7, 3)$. The character table of $PS\Omega(7, 3)$ has appeared in an earlier paper by the author (Hunt [3]). It is possible to determine how the conjugacy classes of $PS\Omega(7, 3)$ fuse as a subgroup of $PS\Omega^+(8, 3)$. Hence, it is possible to restrict the above permutation representations to $PS\Omega(7, 3)$ and split them into irreducible characters of $PS\Omega(7, 3)$. This set of irreducible characters partitions into 3 subsets which are the components of the 3 irreducible characters of $PS\Omega^+(8, 3)$ restricted to $PS\Omega(7, 3)$. Hence, it is possible to

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calculate the values of the characters of degree 1, 300, 260, 819 on most of the conjugacy classes and the remaining values are uniquely determined on all conjugacy classes of $PS\Omega^+(8, 3)$.

4. The Character Table. Applying the automorphism group to the irreducible characters determined above yields 11 irreducible characters. A large number of generalized characters can be determined by forming tensor products and symmetric and alternating products of the known irreducible characters. Other generalized characters can be determined by inducing characters from subgroups isomorphic to $PS\Omega(7, 3)$ and $PS\Omega^+(8, 2)$. The character table of $PS\Omega^+(8, 2)$ can be found in Dye [1]. The permutation representation on the cosets of a subgroup isomorphic to $PS\Omega^+(8, 2)$ is given as the final column of Table 1. $PS\Omega^+(8, 3)$ contains at least 4 conjugacy classes of subgroups isomorphic to $PS\Omega^+(8, 2)$. The above generalized characters are sufficient to determine the entire rational character table; see Table 2 on the microfiche supplement. Only one rational character is not absolutely irreducible, the last of the 113 which is the sum of 2 absolutely irreducible characters.

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The Character Table of Fischer's Simple Group, $M(23)$

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Abstract. This paper describes the calculation of the character table of $M(23)$, the sporadic simple group discovered by B. Fischer [1].

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THE CHARACTER TABLE OF AN EIGHT DIMENSIONAL ORTHOGONAL GROUP

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Table 1 - Page 1

Element	Centralizer	Square	Cube	χ_{1120}	χ_{1080}	χ_{28431}
1A	$2^{12}.3^{12}.5^{2}.7.13$	1A	1A	1120	1080	28431
2A	$2^{10}.3^{6}.5.7$	1A	2A	112	128	567
2B	$2^{10}.3^{6}.5.7$	1A	2B	0	0	567
2C	$2^{10}.3^{6}.5.7$	1A	2C	0	0	567
2D	$2^{12}.3^{4}$	1A	2D	32	24	111
4A	$2^{6}.3^{2}.5$	2A	4A	12	16	15
4B	$2^{6}.3^{2}.5$	2B	4B	0	0	15
4C	$2^{6}.3^{2}.5$	2C	4C	0	0	15
4D	$2^{9}.3^{3}$	2D	4D	16	12	3
4E	$2^{9}.3$	2D	4E	0	4	27
8A	2^{5}	4D	8A	4	2	1
8B	2^{5}	4E	8B	0	2	1
3A	$2^{7}.3^{12}$	3A	1A	148	108	0
3B	$2^{6}.3^{10}.5$	3B	1A	121	135	0
3C	$2^{6}.3^{10}.5$	3C	1A	121	108	243
3D	$2^{6}.3^{10}.5$	3D	1A	40	0	0
3E	$2^{6}.3^{10}.5$	3E	1A	40	0	243
3F	$2^{6}.3^{10}.5$	3F	1A	40	0	0
3G	$2^{6}.3^{10}.5$	3G	1A	40	0	243
3H	$2^{3}.3^{10}$	3H	1A	13	27	243
3I	$2^{3}.3^{10}$	3I	1A	13	27	0
3J	$2^{3}.3^{10}$	3J	1A	13	0	0
3K	$2^{3}.3^{10}$	3K	1A	13	0	0
3L	2.3^{8}	3L	1A	22	9	0
3M	$2^{3}.3^{8}$	3M	1A	4	18	81
9A	$2^{2}.3^{6}$	9A	3A	13	9	0

Table 1 - Page 2

Element	Centralizer	Square	Cube	χ_{1120}	χ_{1080}	χ_{28431}
9B	$2^2.3^6$	9B	3A	13	18	0
9C	$2^2.3^6$	9C	3A	4	0	0
9D	$2^2.3^6$	9D	3A	4	0	0
9E	$2^2.3^6$	9E	3A	4	0	0
9F	$2^2.3^6$	9F	3A	4	0	0
9G	3^6	9G	3A	4	0	0
9H	3^6	9H	3A	4	0	0
9I	3^6	9I	3A	4	0	0
9J	3^6	9J	3A	4	0	0
9K	3^4	9K	3H	1	3	9
9L	3^4	9L	3I	1	3	0
9M	3^4	9M	3J	1	0	0
9N	3^4	9N	3K	1	0	0
6A	$2^6.3^6$	3A	2A	4	20	0
6B	$2^6.3^6$	3A	2B	0	0	0
6C	$2^6.3^6$	3A	2C	0	0	0
6D	$2^5.3^5$	3B	2A	13	11	0
6E	$2^5.3^5$	3C	2A	13	20	27
6F	$2^5.3^5$	3D	2B	0	0	0
6G	$2^5.3^5$	3E	2B	0	0	27
6H	$2^5.3^5$	3F	2C	0	0	0
6I	$2^5.3^5$	3G	2C	0	0	27
6J	$2^3.3^4$	3M	2A	4	2	9
6K	$2^3.3^4$	3M	2B	0	0	9
6L	$2^3.3^4$	3M	2C	0	0	9
6M	$2^7.3^4$	3A	2D	20	12	0
6N	$2^6.3^4$	3B	2D	17	15	0

Table 1 - Page 3

Element	Centralizer	Square	Cube	χ_{1120}	χ_{1080}	χ_{28431}
6O	$2^6.3^4$	3C	2D	17	12	3
6P	$2^6.3^4$	3D	2D	8	0	0
6Q	$2^6.3^4$	3E	2D	8	0	3
6R	$2^6.3^4$	3F	2D	8	0	0
6S	$2^6.3^4$	3G	2D	8	0	3
6T	$2^3.3^4$	3H	2D	5	3	3
6U	$2^3.3^4$	3I	2D	5	3	0
6V	$2^3.3^4$	3J	2D	5	0	0
6W	$2^3.3^4$	3K	2D	5	0	0
6X	$2^3.3^4$	3M	2D	2	6	27
6Y	$2^3.3^4$	3M	2D	2	0	3
6Z	$2^3.3^4$	3M	2D	2	0	3
6AA	$2^3.3^4$	3M	2D	2	6	3
6AB	2.3^4	3L	2D	2	3	0
12A	$2^3.3^2$	6D	4A	3	1	0
12B	$2^3.3^2$	6E	4A	3	4	3
12C	$2^3.3^2$	6F	4B	0	0	0
12D	$2^3.3^2$	6G	4B	0	0	3
12E	$2^3.3^2$	6H	4C	0	0	0
12F	$2^3.3^2$	6I	4C	0	0	3
12G	$2^6.3^3$	6M	4D	16	12	0
12H	$2^6.3^3$	6M	4D	4	0	0
12I	$2^6.3^3$	6M	4D	4	0	0
12J	$2^4.3^3$	6N	4D	1	3	0
12K	$2^4.3^3$	6O	4D	1	0	3
12L	$2^4.3^3$	6P	4D	4	0	0
12M	$2^4.3^3$	6Q	4D	4	0	3

Table 1 - Page 4

Element	Centralizer	Square	Cube	χ_{1120}	χ_{1080}	χ_{28431}
12N	$2^4.3^3$	6R	4D	4	0	0
12O	$2^4.3^3$	6S	4D	4	0	3
12P	$2^6.3$	6M	4E	0	4	0
12Q	$2^2.3^3$	6T	4D	1	3	3
12R	$2^2.3^3$	6U	4D	1	3	0
12S	$2^2.3^3$	6V	4D	1	0	0
12T	$2^2.3^3$	6W	4D	1	0	0
18A	$2^2.3^3$	9A	6A	1	5	0
18B	$2^2.3^3$	9B	6A	1	2	0
18C	$2^2.3^3$	9C	6B	0	0	0
18D	$2^2.3^3$	9D	6B	0	0	0
18E	$2^2.3^3$	9E	6C	0	0	0
18F	$2^2.3^3$	9F	6C	0	0	0
5A	$2^3.3^2.5^2$	5A	5A	10	15	6
5B	$2^3.3^2.5^2$	5B	5B	0	0	6
5C	$2^3.3^2.5^2$	5C	5C	0	0	6
10A	$2^3.5$	5A	10A	2	3	2
10B	$2^3.5$	5B	10B	0	0	2
10C	$2^3.5$	5C	10C	0	0	2
20A	$2^2.5$	10A	20A	2	1	0
20B	$2^2.5$	10B	20B	0	0	0
20C	$2^2.5$	10C	20C	0	0	0
15A	$3^2.5$	15A	5A	1	0	0
15B	$3^2.5$	15B	5A	1	3	3
15C	$3^2.5$	15C	5B	0	0	0
15D	$3^2.5$	15D	5B	0	0	3
15E	$3^2.5$	15E	5C	0	0	0

Table 1 - Page 5

Element	Centralizer	Square	Cube	χ_{1120}	χ_{1080}	χ_{28431}
15F	$3^2.5$	15F	5C	0	0	3
7A	$2^2.7$	7A	7A	0	2	4
14A	$2^2.7$	7A	14A	0	2	0
14B	$2^2.7$	7A	14B	0	0	0
14C	$2^2.7$	7A	14C	0	0	0
13A	13	13B	13A	2	1	0
13B	13	13A	13B	2	1	0

TABLE 2, PAGE NO. 1

1A	2A	2B	2C	2D	4A	4B	4C	4D	4E	8A	8B	3A	3B	3C
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
260	36	20	20	4	4	0	0	4	4	0	0	17	44	17
[illegible]	20	36	20	4	0	4	0	4	4	0	0	17	-10	-10
[illegible]	20	20	36	4	0	0	4	4	4	0	0	17	-10	-10
[illegible]	36	20	20	4	4	0	0	4	4	0	0	17	17	44
[illegible]	20	36	20	4	0	4	0	4	4	0	0	17	-10	-10
[illegible]	20	20	36	4	0	0	4	4	4	0	0	17	-10	-10
[illegible]	20	20	20	12	0	0	0	8	0	2	-2	57	30	30
[illegible]	[illegible]	[illegible]	[illegible]	19	1	-1	-1	7	-1	1	1	90	90	90
[illegible]	[illegible]	[illegible]	[illegible]	19	-1	1	1	7	-1	1	1	90	9	9
[illegible]	[illegible]	[illegible]	[illegible]	19	-1	-1	1	7	-1	1	1	90	9	9
[illegible]	35	35	35	-29	-5	-5	-5	3	3	-1	-1	88	-20	115
[illegible]	35	35	35	-29	-5	-5	-5	3	3	-1	-1	88	-20	115
[illegible]	35	35	35	-29	-5	-5	-5	3	3	-1	-1	88	115	-20
[illegible]	35	35	35	-29	-5	-5	-5	3	3	-1	-1	88	115	-20
[illegible]	120	120	120	-8	0	0	0	8	8	0	0	-108	54	54
[illegible]	196	-140	-140	20	4	4	0	12	-4	0	0	-129	222	-21
[illegible]	-140	196	-140	20	0	0	0	12	-4	0	0	-129	60	60
[illegible]	-140	-140	196	20	0	0	4	12	-4	0	0	-129	60	60
[illegible]	196	-140	-140	20	4	0	0	12	-4	0	0	-129	-21	222
[illegible]	-140	196	-140	20	0	4	0	12	-4	0	0	-129	60	60
[illegible]	-140	-140	196	20	0	0	4	12	-4	0	0	-129	60	60
[illegible]	210	210	210	74	10	10	10	-18	6	0	0	-27	135	135
[illegible]	-90	-90	-90	46	-10	-10	-10	26	2	0	0	783	135	135
[illegible]	280	280	280	24	0	0	0	8	8	0	0	461	110	110
[illegible]	280	280	280	24	0	0	0	8	8	0	0	-25	-160	110
[illegible]	280	280	280	24	0	0	0	8	8	0	0	-25	-160	110
[illegible]	280	280	280	24	0	0	0	8	8	0	0	-25	110	-160
[illegible]	280	280	280	24	0	0	0	8	8	0	0	-25	110	-160
[illegible]	440	120	120	40	0	0	0	16	0	0	0	72	720	-90
[illegible]	120	440	120	40	0	0	0	16	0	0	0	72	-90	-90
[illegible]	120	120	440	40	0	0	0	16	0	0	0	72	-90	-90
[illegible]	440	120	120	40	0	0	0	16	0	0	0	72	-90	720
[illegible]	120	440	120	40	0	0	0	16	0	0	0	72	-90	-90
[illegible]	120	120	440	40	0	0	0	16	0	0	0	72	-90	-90
[illegible]	0	0	0	128	0	0	0	0	0	0	0	864	216	216
[illegible]	140	140	140	-124	0	0	0	0	-8	-2	2	813	300	300
[illegible]	448	0	0	-64	0	0	0	0	0	0	0	-40	716	176
[illegible]	0	448	0	-64	0	0	0	0	0	0	0	-40	-40	-40
[illegible]	0	0	448	-64	0	0	0	0	0	0	0	-40	-40	-40
[illegible]	448	0	0	-64	0	0	0	0	0	0	0	-40	176	716
[illegible]	0	448	0	-64	0	0	0	0	0	0	0	-40	-40	-40
[illegible]	0	0	448	-64	0	0	0	0	0	0	0	-40	-40	-40
[illegible]	350	-210	-210	-42	-10	10	10	10	2	0	0	855	855	45
[illegible]	-210	350	-210	-42	10	-10	10	10	2	0	0	855	45	45
[illegible]	-210	-210	350	-42	10	10	-10	10	2	0	0	855	45	45
[illegible]	350	-210	-210	-42	-10	10	10	10	2	0	0	855	45	355
[illegible]	-210	350	-210	-42	10	-10	10	10	2	0	0	855	45	45
[illegible]	-210	-210	350	-42	10	10	-10	10	2	0	0	855	45	45
[illegible]	896	0	0	0	16	0	0	0	0	0	0	-64	584	584
[illegible]	0	896	0	0	0	16	0	0	0	0	0	-64	-64	-64
[illegible]	0	0	896	0	0	0	16	0	0	0	0	-64	-64	-64
[illegible]	84	420	420	-12	-4	0	0	4	4	0	0	297	216	-27
[illegible]	420	84	420	-12	0	-4	0	4	4	0	0	297	-270	-270
[illegible]	420	420	84	-12	0	0	-4	4	4	0	0	297	-270	-270
49140	84	420	420	-12	-4	0	0	4	4	0	0	297	-27	216

TABLE 2, PAGE NO. 2

1A	2A	2B	2C	2D	4A	4B	4C	4D	4E	8A	8B	3A	3B	3C
49140	420	84	420	-12	0	-4	0	4	4	0	0	297	-270	-270
49140	420	420	84	-12	0	0	-4	4	4	0	0	297	-270	-270
54600	280	280	280	8	0	0	0	16	0	0	0	-561	-210	600
54600	280	280	280	8	0	0	0	16	0	0	0	-561	-210	600
54600	280	280	280	8	0	0	0	16	0	0	0	-561	600	-210
54600	280	280	280	8	0	0	0	16	0	0	0	-561	600	-210
54600	280	280	280	8	0	0	0	16	0	0	0	897	600	600
54600	280	280	280	8	0	0	0	16	0	0	0	897	-210	-210
54600	280	280	280	8	0	0	0	16	0	0	0	897	-210	-210
66339	819	-189	-189	99	19	-9	-9	-21	-5	-1	-1	729	729	729
66339	-189	819	-189	99	-9	19	-9	-21	-5	-1	-1	729	0	0
66339	-189	-189	819	99	-9	-9	19	-21	-5	-1	-1	729	0	0
163800	1400	-840	-840	88	0	0	0	24	-8	0	0	1233	-630	-630
163800	-840	1400	-840	88	0	0	0	24	-8	0	0	1233	180	180
163800	-840	-840	1400	88	0	0	0	24	-8	0	0	1233	180	180
184275	315	315	315	51	-5	-5	-5	-25	-1	1	1	567	-405	810
184275	315	315	315	51	-5	-5	-5	-25	-1	1	1	567	-405	810
184275	315	315	315	51	-5	-5	-5	-25	-1	1	1	567	810	-405
184275	315	315	315	51	-5	-5	-5	-25	-1	1	1	567	810	-405
189540	1044	-540	-540	36	-4	0	0	12	-4	0	0	-729	1458	-729
189540	-540	1044	-540	36	0	-4	0	12	-4	0	0	-729	0	0
189540	-540	-540	1044	36	0	0	-4	12	-4	0	0	-729	0	0
189540	1044	-540	-540	36	-4	0	0	12	-4	0	0	-729	-729	1458
189540	-540	1044	-540	36	0	-4	0	12	-4	0	0	-729	0	0
189540	-540	-540	1044	36	0	0	-4	12	-4	0	0	-729	0	0
218700	-540	-540	-540	108	0	0	0	0	8	-2	2	2187	0	0
232960	896	0	0	0	-16	0	0	0	0	0	0	-320	1192	-536
232960	0	896	0	0	0	-16	0	0	0	0	0	-320	-320	-320
232960	0	0	896	0	0	0	-16	0	0	0	0	-320	-320	-320
232960	896	0	0	0	-16	0	0	0	0	0	0	-320	-536	1192
232960	0	896	0	0	0	-16	0	0	0	0	0	-320	-320	-320
232960	0	0	896	0	0	0	-16	0	0	0	0	-320	-320	-320
245700	-420	-420	-420	-28	0	0	0	-8	0	2	-2	2943	270	270
262080	-448	0	0	-64	0	0	0	0	0	0	0	-360	1584	-36
262080	0	-448	0	-64	0	0	0	0	0	0	0	-360	-360	-360
262080	0	0	-448	-64	0	0	0	0	0	0	0	-360	-360	-360
262080	-448	0	0	-64	0	0	0	0	0	0	0	-360	-36	1584
262080	0	-448	0	-64	0	0	0	0	0	0	0	-360	-360	-360
262080	0	0	-448	-64	0	0	0	0	0	0	0	-360	-360	-360
291200	0	0	0	-128	0	0	0	0	0	0	0	-2344	680	680
291200	0	0	0	-128	0	0	0	0	0	0	0	1544	-400	680
291200	0	0	0	-128	0	0	0	0	0	0	0	1544	-400	680
291200	0	0	0	-128	0	0	0	0	0	0	0	1544	680	-400
291200	0	0	0	-128	0	0	0	0	0	0	0	1544	680	-400
332800	1280	1280	1280	0	0	0	0	0	0	0	0	-1568	160	160
332800	-1280	-1280	-1280	0	0	0	0	0	0	0	0	-1568	160	160
332800	-1280	1280	-1280	0	0	0	0	0	0	0	0	-1569	160	160
332800	-1280	-1280	1280	0	0	0	0	0	0	0	0	-1568	160	160
419328	896	0	0	0	16	0	0	0	0	0	0	-576	72	72
419328	0	896	0	0	0	16	0	0	0	0	0	-576	-576	-576
419328	0	0	896	0	0	0	16	0	0	0	0	-576	-576	-576
465920	-1792	0	0	0	0	0	0	0	0	0	0	-640	656	656
465920	0	-1792	0	0	0	0	0	0	0	0	0	-640	-640	-640
465920	0	0	-1792	0	0	0	0	0	0	0	0	-640	-640	-640
491400	-840	-840	-840	200	0	0	0	0	16	0	0	-675	540	540
531441	729	729	729	81	9	9	9	-27	-3	-1	-1	0	0	0
1433600	0	0	0	0	0	0	0	0	0	0	0	2816	-640	-640

TABLE 2, PAGE NO. 2

1A	2A	2B	2C	2D	4A	4B	4C	4D	4E	8A	8B	3A	3B	3C
49140	420	84	420	-12	0	-4	0	4	4	0	0	297	-270	-270
49140	420	420	84	-12	0	0	-4	4	4	0	0	297	-270	-270
54600	280	280	280	8	0	0	0	16	0	0	0	-561	-210	600
54600	280	280	280	8	0	0	0	16	0	0	0	-561	-210	600
54600	280	280	280	8	0	0	0	16	0	0	0	-561	600	-210
54600	280	280	280	8	0	0	0	16	0	0	0	-561	600	-210
54600	280	280	280	8	0	0	0	16	0	0	0	897	600	600
54600	280	280	280	8	0	0	0	16	0	0	0	897	-210	-210
54600	280	280	280	8	0	0	0	16	0	0	0	897	-210	-210
66339	819	-189	-189	99	19	-9	-9	-21	-5	-1	-1	729	729	729
66339	-189	819	-189	99	-9	19	-9	-21	-5	-1	-1	729	0	0
66339	-189	-189	819	99	-9	-9	19	-21	-5	-1	-1	729	0	0
163800	1400	-840	-840	88	0	0	0	24	-8	0	0	1233	-630	-630
163800	-840	1400	-840	88	0	0	0	24	-8	0	0	1233	180	180
163800	-840	-840	1400	88	0	0	0	24	-8	0	0	1233	180	180
184275	315	315	315	51	-5	-5	-5	-25	-1	1	1	567	-405	810
184275	315	315	315	51	-5	-5	-5	-25	-1	1	1	567	-405	810
184275	315	315	315	51	-5	-5	-5	-25	-1	1	1	567	810	-405
184275	315	315	315	51	-5	-5	-5	-25	-1	1	1	567	810	-405
189540	1044	-540	-540	36	-4	0	0	12	-4	0	0	-729	1458	-729
189540	-540	1044	-540	36	0	-4	0	12	-4	0	0	-729	0	0
189540	-540	-540	1044	36	0	0	-4	12	-4	0	0	-729	0	0
189540	1044	-540	-540	36	-4	0	0	12	-4	0	0	-729	-729	1458
189540	-540	1044	-540	36	0	-4	0	12	-4	0	0	-729	0	0
189540	-540	-540	1044	36	0	0	-4	12	-4	0	0	-729	0	0
218700	-540	-540	-540	108	0	0	0	0	8	-2	2	2187	0	0
232960	896	0	0	0	-16	0	0	0	0	0	0	-320	1192	-536
232960	0	896	0	0	0	-16	0	0	0	0	0	-320	-320	-320
232960	0	0	896	0	0	0	-16	0	0	0	0	-320	-320	-320
232960	896	0	0	0	-16	0	0	0	0	0	0	-320	-536	1192
232960	0	896	0	0	0	-16	0	0	0	0	0	-320	-320	-320
232960	0	0	896	0	0	0	-16	0	0	0	0	-320	-320	-320
245700	-420	-420	-420	-28	0	0	0	-8	0	2	-2	2943	270	270
262080	-448	0	0	-64	0	0	0	0	0	0	0	-360	1584	-36
262080	0	-448	0	-64	0	0	0	0	0	0	0	-360	-360	-360
262080	0	0	-448	-64	0	0	0	0	0	0	0	-360	-360	-360
262080	-448	0	0	-64	0	0	0	0	0	0	0	-360	-36	1584
262080	0	-448	0	-64	0	0	0	0	0	0	0	-360	-360	-360
262080	0	0	-448	-64	0	0	0	0	0	0	0	-360	-360	-360
291200	0	0	0	-128	0	0	0	0	0	0	0	-2344	680	680
291200	0	0	0	-128	0	0	0	0	0	0	0	1544	-400	680
291200	0	0	0	-128	0	0	0	0	0	0	0	1544	-400	680
291200	0	0	0	-128	0	0	0	0	0	0	0	1544	680	-400
291200	0	0	0	-128	0	0	0	0	0	0	0	1544	680	-400
332800	1280	1280	1280	0	0	0	0	0	0	0	0	-1568	160	160
332800	1280	-1280	-1280	0	0	0	0	0	0	0	0	-1568	160	160
332800	-1280	1280	-1280	0	0	0	0	0	0	0	0	-1568	160	160
332800	-1280	-1280	1280	0	0	0	0	0	0	0	0	-1568	160	160
419328	896	0	0	0	16	0	0	0	0	0	0	-576	72	72
419328	0	896	0	0	0	16	0	0	0	0	0	-576	-576	-576
419328	0	0	896	0	0	0	16	0	0	0	0	-576	-576	-576
465920	-1792	0	0	0	0	0	0	0	0	0	0	-640	656	656
465920	0	-1792	0	0	0	0	0	0	0	0	0	-640	-640	-640
465920	0	0	-1792	0	0	0	0	0	0	0	0	-640	-640	-640
491400	-840	-840	-840	200	0	0	0	0	16	0	0	-675	540	540
531441	729	729	729	81	9	9	9	-27	-3	-1	-1	0	0	0
1433600	0	0	0	0	0	0	0	0	0	0	0	2816	-640	-640

TABLE 2. PAGE NO. 3

3D	3E	3F	3G	3H	3I	3J	3K	3L	3M	9A	9B	9C	9D	9E	9F
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10	-10	-10	-10	17	17	-10	-10	-1	8	-1	8	-1	-1	-1	-1
[illegible]	[illegible]	-10	-10	17	-10	17	-10	-1	8	-1	-1	-1	8	-1	-1
-10	[illegible]	44	17	17	-10	-10	17	-1	8	-1	-1	-1	-1	-1	9
-10	-10	-10	-10	-10	-10	17	17	-1	8	8	-1	-1	-1	-1	-1
17	44	-10	-10	-10	17	-10	17	-1	8	-1	-1	9	-1	-1	-1
-10	-10	17	44	-10	17	17	-10	-1	8	-1	-1	-1	-1	8	-1
30	30	30	30	3	3	3	3	12	-6	3	3	9	3	3	7
9	9	9	9	9	9	9	9	9	9	9	9	0	0	3	0
90	90	9	9	9	9	9	9	9	9	0	0	9	9	0	0
9	9	90	90	9	9	9	9	9	9	0	0	0	-1	0	9
-20	115	-20	115	7	34	34	34	7	7	7	-2	-7	-2	7	-2
115	-20	115	-20	34	7	34	34	7	7	7	-2	-2	7	-2	7
-20	115	115	-20	34	34	7	34	7	7	-2	7	7	-2	-2	7
115	-20	-20	115	34	34	34	7	7	7	-2	7	-7	7	7	-7
[illegible]	54	54	54	-27	-27	-27	-27	0	27	0	[illegible]	0	0	0	0
60	60	60	60	6	6	6	6	-3	15	-3	6	-3	-3	-3	-3
222	-21	60	60	6	4	6	6	-3	15	-3	-3	-3	6	-3	-3
[illegible]	60	222	-21	6	6	6	6	-3	15	-3	-3	-3	-3	-3	6
[illegible]	60	60	60	6	6	6	6	-3	15	6	-3	-3	-3	-3	-3
-21	222	60	60	6	6	6	6	-3	15	-3	-3	4	-3	-3	-3
[illegible]	60	-21	222	6	6	6	6	-3	15	-3	-3	-3	-3	6	-3
[illegible]	[illegible]	[illegible]	[illegible]	54	54	54	54	0	[illegible]	0	0	0	0	0	0
[illegible]	[illegible]	[illegible]	[illegible]	-27	-27	-27	-27	27	0	0	0	0	0	0	0
[illegible]	[illegible]	[illegible]	110	-79	-79	-79	-79	11	-7	-7	-7	-7	-7	-7	-7
[illegible]	[illegible]	[illegible]	110	137	-52	-52	-52	2	29	2	-7	2	-7	2	-7
[illegible]	[illegible]	[illegible]	-160	-52	137	-52	-52	2	29	2	-7	-7	2	-7	2
[illegible]	[illegible]	[illegible]	-160	-52	-52	137	-52	2	29	-7	2	2	-7	-7	2
[illegible]	[illegible]	[illegible]	110	-52	-52	-52	137	2	29	-7	2	-7	2	2	-7
[illegible]	-90	-90	-90	[illegible]	72	-9	-9	-9	-9	-9	18	0	0	0	0
720	-90	-90	-90	72	-9	72	-9	-9	-9	0	0	-9	18	0	0
[illegible]	-90	720	-90	72	-9	-9	72	-9	-9	0	0	0	0	-9	18
[illegible]	-90	-90	-90	-9	-9	72	72	-9	-9	18	-9	0	0	0	0
[illegible]	720	-90	-90	-9	72	-9	72	-9	-9	0	0	18	-9	0	0
[illegible]	-90	-90	720	-9	72	72	-9	-9	-9	0	0	0	0	18	-9
216	216	216	216	54	54	54	54	27	0	0	0	0	0	0	0
300	300	300	300	30	30	30	30	39	21	3	3	3	3	3	3
[illegible]	-40	-40	-40	68	68	14	14	-13	14	5	14	-4	-4	-4	-4
716	176	-40	-40	68	14	68	14	-13	14	-4	-4	5	14	-4	-4
-40	-40	716	176	68	14	14	68	-13	14	-4	-4	-4	-4	5	14
-40	-40	-40	-40	14	14	68	68	-13	14	14	5	-4	-4	-4	-4
176	716	-40	-40	14	68	14	68	-13	14	-4	[illegible]	14	5	-4	-4
-40	-40	176	716	14	68	68	14	-13	14	-4	[illegible]	-4	-4	14	5
45	45	45	45	45	45	-36	-36	18	-9	-9	[illegible]	0	0	0	0
855	45	45	45	45	-36	45	-36	18	-9	0	[illegible]	-9	18	0	0
45	45	855	45	45	-36	-36	45	18	-9	0	[illegible]	0	0	-9	18
45	45	45	45	45	-36	45	45	18	-9	18	-9	0	0	0	0
45	855	45	45	-36	45	-36	45	18	-9	0	0	18	-9	0	0
45	45	45	855	-36	45	45	-36	18	-9	0	0	0	0	18	-9
-64	-64	-64	-64	-36	-64	-64	-64	-10	44	-1	-1	0	0	0	-9
584	584	-64	-64	-64	-64	-64	-64	-10	44	8	8	-1	8	8	8
-64	-64	584	584	-64	-64	-54	-64	-10	44	8	8	8	-1	8	8
-64	-64	-64	-64	-64	-64	-64	-64	-10	44	0	8	8	8	-1	-1
-270	-270	-270	-270	135	135	-108	-108	0	27	0	0	0	0	0	0
216	-27	-270	-270	135	-108	135	-108	0	27	0	0	0	0	0	0
-270	-270	216	-27	135	-108	-108	135	0	27	0	0	0	0	0	0
-270	-270	-270	-270	-108	-108	135	135	0	27	0	0	0	0	0	0

TABLE 2, PAGE NO. 4

3D	3E	3F	3G	3H	3I	3J	3K	3L	3M	9A	9B	9C	9D	9E	9F
-27	216	-270	-270	-108	135	-108	135	0	27	0	0	0	0	0	0
-270	-270	-27	216	-108	135	135	-108	0	27	0	0	0	0	0	0
-210	600	-210	600	60	-21	-21	-21	-3	-39	-3	6	-3	6	-3	6
600	-210	600	-210	-21	60	-21	-21	-3	-39	-3	6	6	-3	6	-3
-210	600	600	-210	-21	-21	60	-21	-3	-39	6	-3	-3	6	6	-3
600	-210	-210	600	-21	-21	-21	60	-3	-39	6	-3	6	-3	-3	6
-210	-210	-210	-210	-21	-21	-21	-21	-3	-39	6	6	-3	-3	-3	-3
600	600	-210	-210	-21	-21	-21	-21	-3	-39	-3	-3	6	6	-3	-3
-210	-210	600	600	-21	-21	-21	-21	-3	-39	-3	-3	-3	-3	6	6
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
729	729	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	729	729	0	0	0	0	0	0	0	0	0	0	0	0
180	180	180	180	18	18	18	18	-9	45	-9	-9	0	0	0	0
-630	-630	180	180	18	18	18	18	-9	45	0	0	-9	-9	0	0
180	180	-630	-630	18	18	18	18	-9	45	0	0	0	0	-9	-9
-405	810	-405	810	-162	81	81	81	0	0	0	0	0	0	0	0
810	-405	810	-405	81	-162	81	81	0	0	0	0	0	0	0	0
-405	810	810	-405	81	81	-162	81	0	0	0	0	0	0	0	0
810	-405	-405	810	81	81	81	-162	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1458	-729	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1458	-729	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-729	1458	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	-729	1458	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-320	-320	-320	-320	-104	-104	112	112	4	4	-5	-5	4	4	4	4
1192	-536	-320	-320	-104	112	-104	112	4	4	4	4	-5	-5	4	4
-320	-320	1192	-536	-104	112	112	-104	4	4	4	4	4	4	-5	-5
-320	-320	-320	-320	112	112	-104	-104	4	4	-5	-5	4	4	4	4
-536	1192	-320	-320	112	-104	112	-104	4	4	4	4	-5	-5	4	4
-320	-320	-536	1192	112	-104	-104	112	4	4	4	4	4	4	-5	-5
270	270	270	270	27	27	27	27	27	27	0	0	0	0	0	0
-360	-360	-360	-360	126	126	-36	-36	-9	18	18	-9	0	0	0	0
1584	-36	-360	-360	126	-36	126	-36	-9	18	0	0	18	-9	0	0
-360	-360	1584	-36	126	-36	-36	126	-9	18	0	0	0	0	18	-9
-360	-360	-360	-360	-36	-36	126	126	-9	18	-9	18	0	0	0	0
-36	1584	-360	-360	-36	126	-36	126	-9	18	0	0	-9	18	0	0
-360	-360	-36	1584	-36	126	126	-36	-9	18	0	0	0	0	-9	18
680	680	680	680	-22	-22	-22	-22	-4	-40	-4	-4	-4	-4	-4	-4
-400	680	-400	680	194	-76	-76	-76	-13	-4	-4	-4	-4	-4	-4	-4
680	-400	680	-400	-76	194	-76	-76	-13	-4	-4	-4	-4	-4	-4	-4
-400	680	680	-400	-76	-76	194	-76	-13	-4	-4	-4	-4	-4	-4	-4
680	-400	-400	680	-76	-76	-76	194	-13	-4	-4	-4	-4	-4	-4	-4
160	160	160	160	-56	-56	-56	-56	16	34	-2	-2	-2	-2	-2	-2
160	160	160	160	-56	-56	-56	-56	16	34	-2	-2	-2	-2	-2	-2
160	160	160	160	-56	-56	-56	-56	16	34	-2	-2	-2	-2	-2	-2
160	160	160	160	-56	-56	-56	-56	16	34	-2	-2	-2	-2	-2	-2
-576	-576	-576	-576	72	72	72	72	18	-36	-9	-9	0	0	0	0
72	72	-576	-576	72	72	72	72	18	-36	0	0	-9	-9	0	0
-576	-576	72	72	72	72	72	72	18	-36	0	0	0	0	-9	-9
-640	-640	-640	-640	8	8	8	8	8	8	-10	-10	8	8	8	8
656	656	-640	-640	8	8	8	8	8	8	8	8	-10	-10	8	8
-640	-640	656	656	8	8	8	8	8	8	8	8	8	8	-10	-10
540	540	540	540	54	54	54	54	-27	-27	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-640	-640	-640	-640	-208	-208	-208	-208	-28	-64	8	8	8	8	8	8

TABLE Z, PAGE NO. 6

9G	9H	9I	9J	9K	9L	9M	9N	6A	6B	6C	6D	6E	6F	6G	6H
0	0	0	0	0	0	0	0	-39	57	-39	6	6	-15	12	6
0	0	0	0	0	0	0	0	-39	-39	57	6	6	6	6	-15
6	-3	-3	-3	0	0	0	0	-17	-17	-17	10	-8	10	-8	10
-3	-3	-3	6	0	0	0	0	-17	-17	-17	10	-8	-8	10	-8
-3	6	-3	-3	0	0	0	0	-17	-17	-17	-8	10	10	-8	-8
-3	-3	6	-3	0	0	0	0	-17	-17	-17	-8	10	-8	10	10
-3	-3	-3	-3	0	0	0	0	-71	37	37	-8	-8	10	10	10
-3	-3	-3	-3	0	0	0	0	37	-71	37	10	10	-8	-8	10
-3	-3	-3	-3	0	0	0	0	37	37	-71	10	10	10	10	-8
0	0	0	0	0	0	0	0	9	-27	-27	9	9	0	0	0
0	0	0	0	0	0	0	0	-27	9	-27	0	0	9	9	0
0	0	0	0	0	0	0	0	-27	-27	9	0	0	0	0	9
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0	0	0	0	0	0	0	0	-9	-9	-9	-9	18	18	-9	18
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0	0	0	0	0	0	0	0	-9	27	27	18	-9	0	0	0
0	0	0	0	0	0	0	0	27	-9	27	0	0	18	-9	0
0	0	0	0	0	0	0	0	27	27	-9	0	0	0	0	18
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0	0	0	0	0	0	0	0	27	27	27	0	0	0	0	0
4	-5	-5	4	1	1	-2	-2	32	0	0	-4	-4	0	0	0
4	4	-5	-5	1	-2	1	-2	0	32	0	0	0	-4	-4	0
4	-5	4	-5	1	-2	-2	1	0	0	32	0	0	0	0	-4
-5	4	4	-5	-2	-2	1	1	32	0	0	-4	-4	0	0	0
-5	-5	4	4	-2	1	-2	1	0	32	0	0	0	-4	-4	0
-5	4	-5	4	-2	1	1	-2	0	0	32	0	0	0	0	-4
0	0	0	0	0	0	0	0	39	39	39	-6	-6	-6	-6	-6
0	0	0	0	0	0	0	0	-16	0	0	-16	20	0	0	0
0	0	0	0	0	0	0	0	0	-16	0	0	0	-16	20	0
0	0	0	0	0	0	0	0	0	0	-16	0	0	0	0	-16
0	0	0	0	0	0	0	0	-16	0	0	20	-16	0	0	0
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5	5	5	5	-1	-1	-1	-1	0	0	0	0	0	0	0	0
5	-4	-4	-4	2	-1	-1	-1	0	0	0	0	0	0	0	0
-4	-4	-4	5	-1	2	-1	-1	0	0	0	0	0	0	0	0
-4	5	-4	-4	-1	-1	2	-1	0	0	0	0	0	0	0	0
-4	-4	5	-4	-1	-1	-1	2	0	0	0	0	0	0	0	0
-2	-2	-2	-2	1	1	1	1	-16	-16	-16	-16	-16	-15	-16	-16
-2	-2	-2	-2	1	1	1	1	-16	16	16	-16	-16	16	16	16
-2	-2	-2	-2	1	1	1	1	16	-16	16	16	16	-16	-16	16
-2	-2	-2	-2	1	1	1	1	16	16	-16	16	16	16	16	-16
0	0	0	0	0	0	0	0	32	0	0	-4	-4	0	0	0
0	0	0	0	0	0	0	0	0	32	0	0	0	-4	-4	0
0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	-4
-1	-1	-1	-1	-1	-1	-1	-1	-64	0	0	8	8	0	0	0
-1	-1	-1	-1	-1	-1	-1	-1	0	-64	0	0	0	8	8	0
-1	-1	-1	-1	-1	-1	-1	-1	0	0	-64	0	0	0	0	8
0	0	0	0	0	0	0	0	-3	-3	-3	-12	-12	-12	-12	-12
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	8	8	8	2	2	2	2	0	0	0	0	0	0	0	0

TABLE 2, PAGE NO. 7

6I	6J	6K	6L	6M	6N	6O	6P	6Q	6R	6S	6T	6U	6V	6W	6X
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	0	2	2	1	4	1	-2	-2	-2	-2	1	1	-2	-2	4
2	2	0	2	1	-2	-2	4	1	-2	-2	1	-2	1	-2	4
9	2	2	0	1	-2	-2	-2	-2	4	1	1	-2	-2	1	4
2	0	2	2	1	1	4	-2	-2	-2	-2	-2	-2	1	1	-2
2	2	0	2	1	-2	-2	1	4	-2	-2	-2	1	-2	1	-2
0	2	2	0	1	-2	-2	-2	-2	1	4	-2	1	1	-2	-2
2	2	2	2	9	6	6	6	6	6	6	3	3	3	3	3
-3	1	-3	-3	10	10	10	1	1	1	1	1	1	1	1	1
-3	-3	1	-3	10	1	1	10	10	1	1	1	1	1	1	1
10	-3	-3	1	10	1	1	1	1	10	10	1	1	1	1	1
-1	-1	-1	-1	-9	4	-3	4	-5	4	-5	7	-2	-2	-2	1
8	-1	-1	-1	-9	4	-5	-5	4	-5	4	-2	7	-2	-2	1
8	-1	-1	-1	-9	-5	4	4	-5	-5	4	-2	-2	7	-2	1
-1	-1	-1	-1	-8	-5	4	-5	4	4	-5	-2	-2	-2	7	1
-6	3	3	3	4	-2	-2	-2	-2	-2	-2	1	1	1	1	-5
4	7	-5	-5	-1	14	-13	-4	-4	-4	-4	2	2	2	2	-1
4	-5	7	-5	-1	-4	-4	14	-13	-4	-4	2	2	2	2	-1
7	-5	-5	7	-1	-4	-4	-4	-4	14	-13	2	2	2	2	-1
4	7	-5	-5	-1	-13	14	-4	-4	-4	-4	2	2	2	2	-1
4	-5	7	-5	-1	-4	-4	-13	14	-4	-4	2	2	2	2	-4
-2	-5	-5	7	-1	-4	-4	-4	-4	-13	14	2	2	2	2	-1
3	3	3	3	5	-1	-1	-1	-1	-1	-1	2	2	2	2	5
-9	0	0	0	31	7	7	7	7	7	7	1	1	1	1	4
10	1	1	1	-3	6	6	6	6	6	6	-3	-3	-3	-3	-3
10	1	1	1	-9	0	6	0	6	0	6	-3	0	0	0	3
-8	1	1	1	-9	0	6	6	6	6	0	0	-3	0	0	-3
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-6	-1	3	3	-8	16	-2	-2	-2	-2	-2	4	4	-5	-5	1
-6	3	-1	3	-8	-2	-2	16	-2	-2	-2	4	-5	4	-5	1
26	3	3	-1	-8	-2	-2	-2	-2	16	-2	4	-5	-5	4	1
-6	-1	3	3	-8	-2	16	-2	-2	-2	-2	-5	-5	4	4	1
-6	3	-1	3	-8	-2	-2	-2	16	-2	-2	-5	4	-5	4	1
8	3	3	-1	-8	-2	-2	-2	-2	-2	16	-5	4	4	-5	1
0	0	0	0	32	8	8	8	8	8	8	2	2	2	2	-4
-4	5	5	5	-19	-4	-4	-4	-4	-4	-4	2	2	2	2	-1
0	-2	0	0	8	-4	-16	8	8	8	8	-4	-4	2	2	2
0	0	-2	0	8	8	8	-4	-16	8	8	-4	2	-4	2	2
16	0	0	-2	8	8	8	8	8	-4	-16	-4	2	2	-4	2
0	-2	0	0	8	-16	-4	8	8	8	8	2	2	-4	-4	-4
0	0	-2	0	8	8	8	-16	-4	8	8	2	-4	2	-4	-4
-20	0	0	-2	8	8	8	8	8	-16	-4	2	-4	-4	2	-4
-3	-1	-3	-3	-9	-9	21	-3	-3	-3	-3	-3	-3	0	0	-3
-3	-3	-1	-3	-9	-3	-3	-9	21	-3	-3	-3	0	-3	0	-3
17	-3	-3	-1	-9	-3	-3	-3	-3	-9	21	-3	0	0	-3	-3
-3	-1	-3	-3	-9	21	-9	-3	-3	-3	-3	0	0	-3	-3	3
-3	-3	-1	-3	-9	-3	-3	21	-9	-3	-3	0	-3	0	-3	3
-1	-3	-3	-1	-9	-3	-3	-3	-3	21	-9	0	-3	-3	0	3
0	-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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6	3	-3	-3	9	0	-3	-6	-6	-6	-6	3	3	0	0	3
6	-3	-3	-3	9	-6	-6	0	-3	-6	-6	3	0	3	0	3
-15	-3	-3	-3	9	-6	-6	-6	-6	0	-9	3	0	0	3	3
6	3	-3	-3	9	-3	0	-6	-6	-6	-6	0	0	3	3	-3

TABLE 2, PAGE NO. 8

6I	6J	6K	6L	6M	6N	6O	6P	6Q	6R	6S	6T	6U	6V	6W	6X
6	-3	3	-3	9	-6	-6	-3	0	-6	-6	0	3	0	0	-3
12	-3	-3	3	9	-6	-6	-6	-6	-3	0	0	3	0	0	-3
-8	1	1	1	-1	-10	8	-10	8	-10	8	9	-1	-1	-1	-1
10	1	1	1	-1	-10	8	8	-10	8	-10	-1	8	-1	-1	-1
10	1	1	1	-1	8	-10	-10	8	8	-10	-1	-1	8	-1	-1
-8	1	1	1	-1	8	-10	8	-10	-10	8	-1	-1	-1	8	-1
10	1	1	1	17	8	8	-10	-10	-10	-10	-1	-1	-1	-1	-1
10	1	1	1	17	-10	-10	8	8	-10	-10	-1	-1	-1	-1	-1
-8	1	1	1	17	-10	-10	-10	-10	8	8	-1	-1	-1	-1	-1
0	0	0	0	9	9	9	0	0	0	0	0	0	0	0	0
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9	0	0	0	9	0	0	0	0	9	9	0	0	0	0	0
-12	5	-3	-3	1	-14	-14	4	4	4	4	-2	-2	-2	-2	1
-12	-3	5	-3	1	4	4	-14	-14	4	4	-2	-2	-2	-2	1
14	-3	-3	5	1	4	4	4	4	-14	-14	-2	-2	-2	-2	1
18	0	0	0	-9	3	-6	3	-6	3	-6	6	-3	-3	-3	0
-9	0	0	0	-9	3	-6	-6	3	-6	3	-3	6	-3	-3	0
-9	0	0	0	-9	-6	3	3	-6	-6	3	-3	-3	6	-3	0
18	0	0	0	-9	-6	3	-6	3	3	-6	-3	-3	-3	6	0
0	0	0	0	-9	18	-9	0	0	0	0	0	0	0	0	0
0	0	0	0	-9	0	0	18	-9	0	0	0	0	0	0	0
-9	0	0	0	-9	0	0	0	0	18	-9	0	0	0	0	0
0	0	0	0	-9	-9	18	0	0	0	0	0	0	0	0	0
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18	0	0	0	-9	0	0	0	0	-9	18	0	0	0	0	0
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0	0	-4	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	-4	0	0	0	0	0	0	0	0	0	0	0	0	0
-4	0	0	-4	0	0	0	0	0	0	0	0	0	0	0	0
-6	3	3	3	-1	-10	-10	-10	-10	-10	-10	-1	-1	-1	-1	-1
0	2	0	0	8	-16	-4	8	8	8	8	2	2	-4	-4	-4
0	0	2	0	8	8	8	-16	-4	8	8	2	-4	2	-4	-4
20	0	0	2	8	8	8	8	8	-16	-4	2	-4	-4	2	-4
0	2	0	0	8	-4	-16	8	8	8	8	-4	-4	2	2	2
0	0	2	0	8	8	8	-4	-16	8	8	-4	2	-4	2	2
-16	0	0	2	8	8	8	8	8	-4	-16	-4	2	2	-4	2
0	0	0	0	40	-8	-8	-8	-8	-8	-8	-2	-2	-2	-2	4
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0	0	0	0	-8	-8	16	-8	16	16	-8	4	4	4	-2	4
-16	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
16	2	-2	-2	0	0	0	0	0	0	0	0	0	0	0	0
16	-2	2	-2	0	0	0	0	0	0	0	0	0	0	0	0
-16	-2	-2	2	0	0	0	0	0	0	0	0	0	0	0	0
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8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0
-12	-3	-3	-3	-19	-4	-4	-4	-4	-4	-4	2	2	2	2	-1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 2, PAGE NO. 9

6V	6Z	6AA	6AB	12A	12B	12C	12D	12E	12F	12G	12H	12I	12J	12K	12L
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2	-2	4	1	-2	1	0	0	0	0	1	1	1	4	1	-2
4	-2	-2	1	0	0	-2	1	0	0	1	1	1	-2	-2	4
-2	4	-2	1	0	0	0	0	-2	1	1	1	1	-2	-2	-2
4	4	-2	1	1	-2	0	0	0	0	1	1	1	1	4	-2
-2	4	4	1	0	0	1	-2	0	0	1	1	1	-2	-2	1
4	-2	4	1	0	0	0	0	1	-2	1	1	1	-2	-2	-2
0	0	0	0	0	0	0	0	0	0	5	5	5	2	2	2
1	1	1	1	2	2	-1	-1	-1	-1	10	-2	-2	-2	-2	1
1	1	1	1	-1	-1	2	2	-1	-1	-2	10	-2	1	1	-2
1	1	1	1	-1	-1	-1	-1	2	2	-2	-2	10	1	1	1
1	1	1	1	-2	1	-2	1	-2	1	0	0	0	0	3	0
1	1	1	1	-2	1	1	-2	1	-2	0	0	0	0	3	3
1	1	1	1	1	-2	-2	1	1	-2	0	0	0	3	0	0
1	1	1	1	1	-2	1	-2	-2	1	0	0	0	3	0	3
-5	-5	-5	4	0	0	0	0	0	0	-4	-4	-4	2	2	2
-1	-1	-1	-1	-2	1	0	0	0	0	-9	3	3	-6	2	0
-1	-1	-1	-1	0	0	-2	1	0	0	3	-9	3	0	0	-6
-1	-1	-1	-1	0	0	0	0	-2	1	3	3	-9	0	0	0
-1	-1	-1	-1	1	-2	0	0	0	0	-9	3	3	3	-6	0
-1	-1	-1	-1	0	0	1	-2	0	0	3	-9	3	0	0	3
-1	-1	-1	-1	0	0	0	0	1	-2	3	3	-9	0	0	0
5	5	5	-4	1	1	1	1	1	1	-3	-3	-3	3	3	3
4	4	4	-5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
-3	-3	-3	-3	0	0	0	0	0	0	5	5	5	2	2	2
-3	-3	-3	0	0	0	0	0	0	0	-1	-1	-1	-4	2	-4
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9	-3	-3	0	0	0	0	0	0	0	-1	-1	-1	2	-4	-4
-3	9	-3	0	0	0	0	0	0	0	-1	-1	-1	2	-4	2
1	1	1	1	0	0	0	0	0	0	-8	4	4	4	-2	-2
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1	1	1	1	0	0	0	0	0	0	4	4	-8	-2	-2	-2
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-4	-4	-4	5	0	0	0	0	0	0	0	0	0	0	0	0
-1	-1	-1	-1	0	0	0	0	0	0	9	0	0	0	0	0
-4	-4	2	-1	0	0	0	0	0	0	0	0	0	0	0	0
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2	-4	2	-1	0	0	0	0	0	0	0	0	0	0	0	0
3	3	-3	0	-1	-1	1	1	1	1	7	-5	-5	-5	1	1
-3	3	3	0	1	1	-1	-1	1	1	-5	7	-5	1	1	-5
3	-3	3	0	1	1	1	1	-1	-1	-5	-5	7	1	1	1
-3	-3	3	0	-1	-1	1	1	1	1	7	-5	-5	1	-5	1
3	-3	-3	0	1	1	-1	-1	1	1	-5	7	-5	1	1	1
-3	3	-3	0	1	1	1	1	-1	-1	-5	-5	7	1	1	1
0	0	0	0	-2	-2	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	-2	-2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	-2	-2	0	0	0	0	0	0
-3	-3	3	0	2	-1	0	0	[illegible]	0	1	1	1	4	1	-2
3	-3	-3	0	0	0	2	-1	[illegible]	0	1	1	1	-2	-2	4
-3	3	-3	0	0	0	0	0	2	-1	1	1	1	-2	-2	-2
3	3	-3	0	-1	2	0	0	0	0	1	1	1	1	4	-2

TABLE 2, PAGE NO. 10

6V	6Z	6AA	6AB	12A	12B	12C	12D	12E	12F	12G	12H	12I	12J	12K	12L
-3	3	3	0	0	0	-1	2	0	0	1	1	1	-2	-2	1
3	-3	3	0	0	0	0	0	-1	2	1	1	1	-2	-2	-2
-1	-1	-1	-1	0	0	0	0	0	0	-5	-5	-5	-2	4	-2
-1	-1	-1	-1	0	0	0	0	0	0	-5	-5	-5	-2	4	4
-1	-1	-1	-1	0	0	0	0	0	0	-5	-5	-5	4	-2	-2
-1	-1	-1	-1	0	0	0	0	0	0	-5	-5	-5	4	-2	4
-1	-1	-1	-1	0	0	0	0	0	0	13	1	1	4	4	-2
-1	-1	-1	-1	0	0	0	0	0	0	1	13	1	-2	-2	4
-1	-1	-1	-1	0	0	0	0	0	0	1	1	13	-2	-2	-2
0	0	0	0	1	1	0	0	0	0	9	-3	-3	-3	-3	0
0	0	0	0	0	0	1	1	0	0	-3	9	-3	0	0	-3
0	0	0	0	0	0	0	0	1	1	-3	-3	9	0	0	0
1	1	1	1	0	0	0	0	0	0	9	-3	-3	6	6	0
1	1	1	1	0	0	0	0	0	0	-3	9	-3	0	0	6
1	1	1	1	0	0	0	0	0	0	-3	-3	9	0	0	0
0	0	0	0	1	-2	1	-2	1	-2	-1	-1	-1	-1	2	-1
0	0	0	0	1	-2	-2	1	-2	1	-1	-1	-1	-1	2	2
0	0	0	0	-2	1	1	-2	-2	1	-1	-1	-1	2	-1	-1
0	0	0	0	-2	1	-2	1	1	-2	-1	-1	-1	2	-1	2
0	0	0	0	2	-1	0	0	0	0	-9	3	3	-6	3	0
0	0	0	0	0	0	2	-1	0	0	3	-9	3	0	0	-6
0	0	0	0	0	0	0	0	2	-1	3	3	-9	0	0	0
0	0	0	0	-1	2	0	0	0	0	-9	3	3	3	-6	0
0	0	0	0	0	0	-1	2	0	0	3	-9	3	0	0	3
0	0	0	0	0	0	0	0	-1	2	3	3	-9	0	0	0
0	0	0	0	0	0	0	0	0	0	-9	-9	-9	0	0	0
0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0
0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0
-1	-1	-1	-1	0	0	0	0	0	0	-5	-5	-5	-2	-2	-2
2	2	-4	-1	0	0	0	0	0	0	0	0	0	0	0	0
-4	2	2	-1	0	0	0	0	0	0	0	0	0	0	0	0
2	-4	2	-1	0	0	0	0	0	0	0	0	0	0	0	0
-4	-4	2	-1	0	0	0	0	0	0	0	0	0	0	0	0
2	-4	-4	-1	0	0	0	0	0	0	0	0	0	0	0	0
-4	2	-4	-1	0	0	0	0	0	0	0	0	0	0	0	0
4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
4	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0
4	4	-8	1	0	0	0	0	0	0	0	0	0	0	0	0
-8	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0
4	-8	4	1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	-2	-2	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	-2	-2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	-2	-2	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-1	-1	-1	-1	0	0	0	0	0	0	9	9	9	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 7, PAGE NO. 11

12M	12N	12O	12P	12Q	12R	12S	12T	18A	18B	18C	18D	18E	18F	5A	5B
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2	-2	-2	1	1	1	-2	-2	3	0	-1	-1	-1	-1	5	0
1	-2	-2	1	1	-2	1	-2	-1	-1	3	0	-1	-1	0	5
-2	4	1	1	1	-2	-2	1	-1	-1	-1	-1	2	0	0	0
-2	-2	-2	1	-2	-2	1	1	0	3	-1	-1	-1	-1	5	0
4	-2	-2	1	-2	1	-2	1	-1	-1	0	3	-1	-1	0	5
-2	1	4	1	-2	1	1	-2	-1	-1	-1	-1	1	3	0	0
2	2	2	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0
1	1	1	2	1	1	1	1	1	1	0	0	0	0	5	-1
-2	1	1	2	1	1	1	1	0	0	1	1	0	0	-1	0
1	-2	-2	2	1	1	1	1	0	0	0	0	1	1	-1	-1
3	0	3	0	3	0	0	0	-1	2	-1	2	-1	2	0	0
0	3	0	0	0	3	0	0	-1	2	2	-1	2	-1	0	0
3	3	0	0	0	0	3	0	2	-1	-1	2	2	-1	0	0
0	0	3	0	0	0	0	3	2	-1	2	-1	-1	2	0	0
2	2	2	-4	-1	-1	-1	-1	0	0	0	0	0	0	8	8
0	0	0	-1	0	0	0	0	1	-2	1	1	1	1	5	0
3	0	0	-1	0	0	0	0	1	1	1	-2	1	1	0	5
0	-6	3	-1	0	0	0	0	1	1	1	1	1	-2	0	0
0	0	0	-1	0	0	0	0	-2	1	1	1	1	1	5	0
-6	0	0	-1	0	0	0	0	1	1	-2	1	1	1	0	5
0	3	-6	-1	0	0	0	0	1	1	1	1	-2	1	0	0
3	3	3	-3	0	0	0	0	0	0	0	0	0	0	0	0
-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
2	2	2	5	-1	-1	-1	-1	1	1	1	1	1	1	0	0
2	-4	2	-1	-1	2	2	2	-2	1	-2	1	-2	1	0	0
-4	2	-4	-1	2	-1	2	2	-2	1	1	-2	1	-2	0	0
2	2	-4	-1	2	2	-1	2	1	-2	-2	1	1	-2	0	0
-4	-4	2	-1	2	2	2	-1	1	-2	1	-5	-2	1	0	0
-2	-2	-2	0	-2	-2	1	1	-1	2	0	0	0	0	0	0
-2	-2	-2	0	-2	1	-2	1	0	0	-1	2	0	0	0	0
-2	4	-2	0	-2	1	1	-2	0	0	0	0	-1	2	0	0
-2	-2	-2	0	1	1	-2	-2	2	-1	0	0	0	0	0	0
4	-2	-2	0	1	-2	1	-2	0	0	2	-1	0	0	0	0
-2	-2	4	0	1	-2	-2	1	0	0	0	0	2	-1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	-8	-8
0	0	0	1	0	0	0	0	-1	-1	-1	-1	-1	-1	0	0
0	0	0	0	0	0	0	0	1	-2	0	0	0	0	10	0
0	0	0	0	0	0	0	0	0	0	1	-2	0	0	0	10
0	0	0	0	0	0	0	0	0	0	0	0	1	-2	0	0
0	0	0	0	0	0	0	0	-2	1	0	0	0	0	10	0
0	0	0	0	0	0	0	0	0	0	-2	1	0	0	0	10
0	0	0	0	0	0	0	0	0	0	0	0	-2	1	0	0
1	1	1	-1	1	1	-2	-2	-1	2	0	0	0	0	0	0
1	1	1	-1	1	-2	1	-2	0	0	-1	2	0	0	0	0
1	-3	1	-1	1	-2	-2	1	0	0	0	0	-1	2	0	0
1	1	1	-1	-2	-2	1	1	2	-1	0	0	0	0	0	0
-5	1	1	-1	-2	1	-2	1	0	0	2	-1	0	0	0	0
1	1	-5	-1	-2	1	1	-2	0	0	0	0	2	-1	0	0
0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	17	-8
0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	-8	17
0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-8	-8
-2	-2	-2	1	1	1	-2	-2	0	0	0	0	0	0	-5	0
1	-2	-2	1	1	-2	1	-2	0	0	0	0	0	0	0	-5
-2	4	1	1	1	-2	-2	1	0	0	0	0	0	0	0	0
-2	-2	-2	1	-2	-2	1	1	0	0	0	0	0	0	-5	0

TABLE 2, PAGE NO. 12

12M	12N	12O	12P	12Q	12R	12S	12T	18A	18B	18C	18D	18F	18F	5A	5B
4	-2	-2	1	-2	1	-2	1	0	0	0	0	0	0	0	-5
-2	1	4	1	-2	1	1	-2	0	0	0	0	0	0	0	0
4	-2	4	3	-2	1	1	1	1	-2	1	-2	1	-2	0	0
-2	4	-2	3	1	-2	1	1	1	-2	-2	1	-2	1	0	0
4	4	-2	3	1	1	-2	1	-2	1	1	-2	-2	1	0	0
-2	-2	4	3	1	1	1	-2	-2	1	-2	1	1	-2	0	0
-2	-2	-2	-3	1	1	1	1	-2	-2	1	1	1	1	0	0
4	-2	-2	-3	1	1	1	1	1	1	-2	-2	1	1	0	0
-2	4	4	-3	1	1	1	1	1	1	1	1	-2	-2	0	0
0	0	0	1	0	0	0	0	0	0	0	0	0	0	-1	0
-3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	-1
0	-3	-3	1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	-1	-1	0	0	0	0	0	0
6	0	0	1	0	0	0	0	0	0	-1	-1	0	0	0	0
0	6	6	1	0	0	0	0	0	0	0	0	-1	-1	0	0
2	-1	2	-1	2	-1	-1	-1	0	0	0	0	0	0	0	0
-1	2	-1	-1	-1	2	-1	-1	0	0	0	0	0	0	0	0
2	2	-1	-1	-1	-1	2	-1	0	0	0	0	0	0	0	0
-1	-1	2	-1	-1	-1	-1	2	0	0	0	0	0	0	0	0
0	0	0	-1	0	0	0	0	0	0	0	0	0	0	-5	0
3	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	-5
0	-6	3	-1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	-1	0	0	0	0	0	0	0	0	0	0	-5	0
-6	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	-5
0	3	-6	-1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	5	0
0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	5
0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0
0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	5	0
0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	5
0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0
-2	-2	-2	3	1	1	1	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	2	-1	0	0	0	0	-10	0
0	0	0	0	0	0	0	0	0	0	2	-1	0	0	0	-10
0	0	0	0	0	0	0	0	0	0	0	0	2	-1	0	0
0	0	0	0	0	0	0	0	-1	2	0	0	0	0	-10	0
0	0	0	0	0	0	0	0	0	0	-1	2	0	0	0	-10
0	0	0	0	0	0	0	0	0	0	0	0	-1	2	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	2	2	2	2	2	2	0	0
0	0	0	0	0	0	0	0	2	2	-2	-2	-2	-2	0	0
0	0	0	0	0	0	0	0	-2	-2	2	2	-2	-2	0	0
0	0	0	0	0	0	0	0	-2	-2	-2	-2	2	2	0	0
0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	-7	8
0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	8	-7
0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	8	8
0	0	0	0	0	0	0	0	2	2	0	0	0	0	10	0
0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	10
0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0
0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	-5	-9
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 2, PAGE NO. 13

5C	10A	10B	10C	20A	20B	20C	15A	15B	15C	15D	15E	15F	7A	14A	14B	14C	13	12
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	0	0	-1	0	0	-1	2	0	0	0	0	1	1	-1	-1	0	0
0	0	1	0	0	-1	0	0	0	-1	2	0	0	1	-1	1	-1	0	0
5	0	0	1	0	0	-1	0	0	0	0	-1	2	1	-1	-1	1	0	0
0	1	0	0	-1	0	0	2	-1	0	0	0	0	1	1	-1	-1	0	0
0	0	1	0	0	-1	0	0	0	2	-1	0	0	1	-1	1	-1	0	0
5	0	0	1	0	0	-1	0	0	0	0	2	-1	1	-1	-1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	1	1
-1	1	-1	-1	1	-1	-1	0	0	-1	-1	-1	-1	0	0	0	0	0	0
-1	-1	1	-1	-1	1	-1	-1	-1	0	0	-1	-1	0	0	0	0	0	0
9	-1	-1	1	-1	-1	1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	1	1	1	1	0	0
0	1	0	0	-1	0	0	2	-1	0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	-1	0	0	0	2	-1	0	0	0	0	0	0	0	0
5	0	0	1	0	0	-1	0	0	0	0	2	-1	0	0	0	0	0	0
0	1	0	0	-1	0	0	-1	2	0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	-1	0	0	0	-1	2	0	0	0	0	0	0	0	0
5	0	0	1	0	0	-1	0	0	0	0	-1	2	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1
0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	-1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	-1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	-1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	-1	0	0
-8	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	-1	-1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	-2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	-2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
10	0	0	-2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
0	-2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	-2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
10	0	0	-2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8	1	0	0	1	0	0	-1	-1	1	1	1	1	0	0	0	0	0	0
-8	0	1	0	0	1	0	1	1	-1	-1	1	1	0	0	0	0	0	0
17	0	0	1	0	0	1	1	1	1	1	-1	-1	0	0	0	0	0	0
0	-1	0	0	1	0	0	1	-2	0	0	0	0	0	0	0	0	0	0
0	0	-1	0	0	1	0	0	0	1	-2	0	0	0	0	0	0	0	0
-5	0	0	-1	0	0	1	0	0	0	0	1	-2	0	0	0	0	0	0
0	-1	0	0	1	0	0	-2	1	0	0	0	0	0	0	0	0	0	0

TABLE 2, PAGE NO. 14

5C	10A	10B	10C	20A	20B	20C	15A	15B	15C	15D	15E	15F	7A	14A	14B	14C	13	13
0	0	-1	0	0	1	0	0	0	-2	1	0	0	0	0	0	0	0	0
-5	0	0	-1	0	0	1	0	0	0	0	-2	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	-1	1	1	-1	1	1	-1	-1	0	0	0	0	0	0	0	0	0	0
9	1	-1	1	1	-1	1	0	0	-1	-1	0	0	0	0	0	0	0	0
-1	1	1	-1	1	1	-1	0	0	0	0	-1	-1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	-1	0	0	1	0	0	-2	1	0	0	0	0	1	1	-1	-1	0	0
0	0	-1	0	0	1	0	0	0	-2	1	0	0	1	-1	1	-1	0	0
-5	0	0	-1	0	0	1	0	0	0	0	-2	1	1	-1	-1	1	0	0
0	-1	0	0	1	0	0	1	-2	0	0	0	0	1	1	-1	-1	0	0
0	0	-1	0	0	1	0	0	0	1	-2	0	0	1	-1	1	-1	0	0
-5	0	0	-1	0	0	1	0	0	0	0	1	-2	1	-1	-1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	1	1
0	1	0	0	-1	0	0	2	-1	0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	-1	0	0	0	2	-1	0	0	0	0	0	0	0	0
5	0	0	1	0	0	-1	0	0	0	0	2	-1	0	0	0	0	0	0
0	1	0	0	-1	0	0	-1	2	0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	-1	0	0	0	-1	2	0	0	0	0	0	0	0	0
5	0	0	1	0	0	-1	0	0	0	0	-1	2	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	2	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0
0	0	2	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0
-10	0	0	2	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
0	2	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0
0	0	2	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0
-10	0	0	2	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	-1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	1	-1	0	0
8	1	0	0	1	0	0	2	2	-1	-1	-1	-1	0	0	0	0	0	0
8	0	1	0	0	1	0	-1	-1	2	2	-1	-1	0	0	0	0	0	0
-7	0	0	1	0	0	1	-1	-1	-1	-1	2	2	0	0	0	0	0	0
0	-2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
0	0	-2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
10	0	0	-2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1