

**Part 4 : New Advanced Study of Magic Squares and Cubes**  
**Chapter 4: Commentary Articles No. 2 by Kanji Setsuda:**  
**"Various Arts and Tools for Studying Magic Squares"**

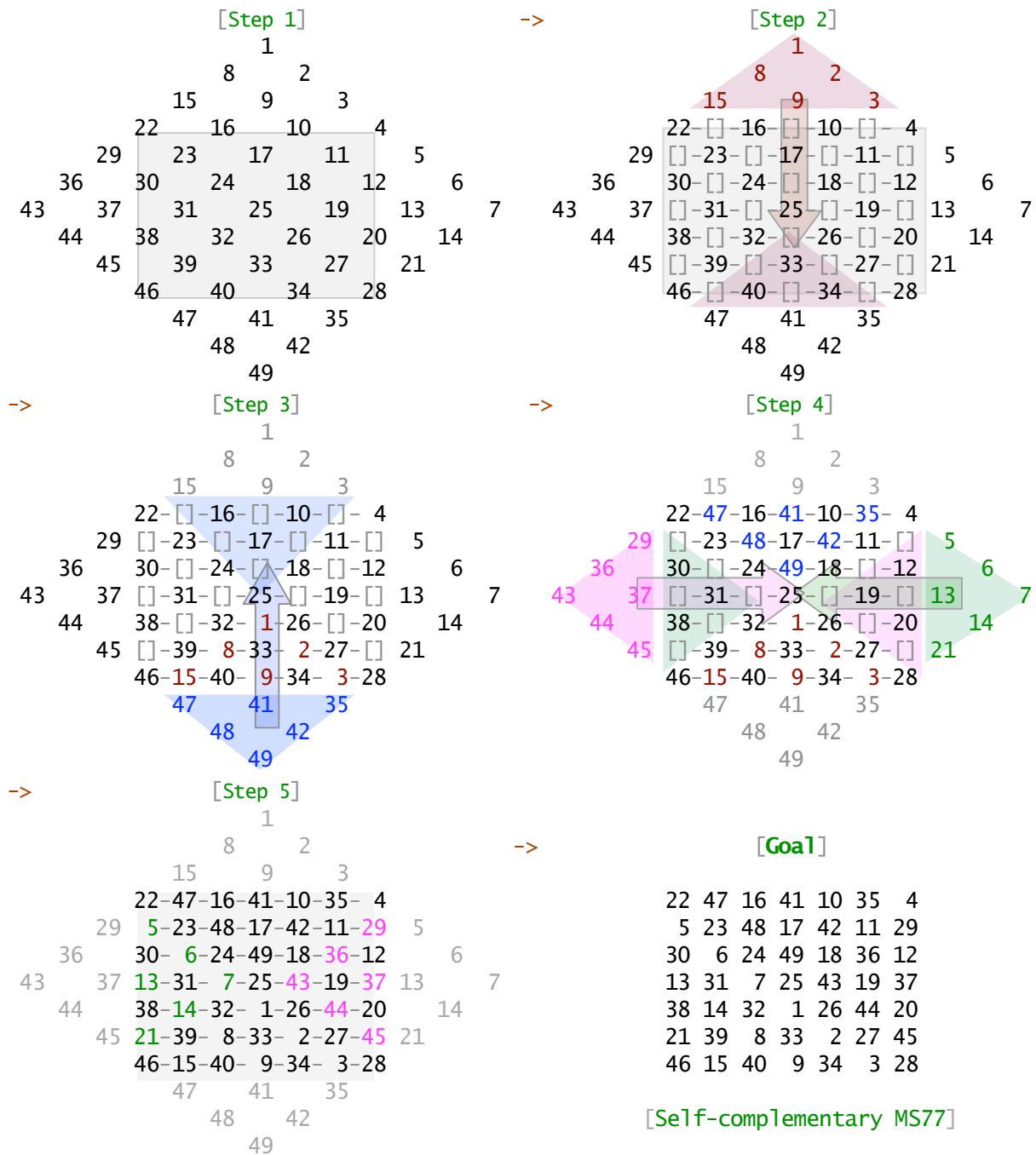
**Section 11-1: 'Complete Euler Squares' of Order 7 for the Simultaneous Type and the "Classic Composition"**

**0. Our purpose**

I once wrote an article about the unique relationship between the Simultaneous Magic Squares of Order 5: Self-complementary and Pan-diagonal; and the traditional method of 'Classic Composition' in [the Section 4, Chapter 3, Part 3](#).

Right here in this section I want to report about my study of the case of Order 7: the relationship between the Simultaneous MS77 and the Classic Composition.

Does the method of Classic Composition actually perform its 'unique' role again to the solution set of Simultaneous MS77: Self-complementary and Pan-diagonal?



## 1. Classic Method of Composition

You may probably know about this special method of composition illustrated above that makes the Goal object, the self-complementary MS77, from the starting Step 1 Basic Diagram. It has been well known for a long time since ancient ages.

The key points of this method are in the exchanging transformation between the pan-diagonals and rows/columns.

At first we rotate the Basic Form below by the 45 degrees clockwise.

Next we copy the original pan-diagonals to the new rows/columns of object and make them add up to the constant sum, since we know all the original pan-diagonals always add up to the magic constant.

The last two primary diagonals of object should be made by copying the 4-th row and 4-th column of original, since we know they originally have the constant sums.

Self-complementary pairs are all rearranged, but kept unchanged with the symmetric relations and their constant sums.

Simplify this complicated method, and you should have got the conclusive essence with the diagrams and rules of transformation as follows.

*/\* Simplified Diagrams of Basic Form and the Goal Object \*/*

1  2  3  4  5  6  7	=>	22  47  16  41  10  35  4
-----		-----
8  9  10  11  12  13  14		5  23  48  17  42  11  29
-----		-----
15  16  17  18  19  20  21		30  6  24  49  18  36  12
-----		-----
22  23  24  25  26  27  28		13  31  7  25  43  19  37
-----		-----
29  30  31  32  33  34  35		38  14  32  1  26  44  20
-----		-----
36  37  38  39  40  41  42		21  39  8  33  2  27  45
-----		-----
43  44  45  46  47  48  49		46  15  40  9  34  3  28
-----		-----

*/\* Program for Rules of this Classic Transformation \*/*

```
void cLstrns7(void){
  d[ 1]=c[22]; d[ 2]=c[47]; d[ 3]=c[16]; d[ 4]=c[41]; d[ 5]=c[10]; d[ 6]=c[35]; d[ 7]=c[ 4];
  d[ 8]=c[ 5]; d[ 9]=c[23]; d[10]=c[48]; d[11]=c[17]; d[12]=c[42]; d[13]=c[11]; d[14]=c[29];
  d[15]=c[30]; d[16]=c[ 6]; d[17]=c[24]; d[18]=c[49]; d[19]=c[18]; d[20]=c[36]; d[21]=c[12];
  d[22]=c[13]; d[23]=c[31]; d[24]=c[ 7]; d[25]=c[25]; d[26]=c[43]; d[27]=c[19]; d[28]=c[37];
  d[29]=c[38]; d[30]=c[14]; d[31]=c[32]; d[32]=c[ 1]; d[33]=c[26]; d[34]=c[44]; d[35]=c[20];
  d[36]=c[21]; d[37]=c[39]; d[38]=c[ 8]; d[39]=c[33]; d[40]=c[ 2]; d[41]=c[27]; d[42]=c[45];
  d[43]=c[46]; d[44]=c[15]; d[45]=c[40]; d[46]=c[ 9]; d[47]=c[34]; d[48]=c[ 3]; d[49]=c[28];
}
/**/
```

Apply this procedure cLstrns7(); to the Basic Form above, and you will automatically have got one of the objects, Self-complementary MS77. How simple it is!

[Org]	H/	L/		O# Row C Im Pd1\Pd2/	->	H/	L/		1# Row C Im Pd1\Pd2/
0000000	0123456	1 2 3 4 5 6 7	28 154 175\175/		3625140	0415263	22 47 16 41 10 35 4	175 175 175\154/	
1111111	0123456	8 9 10 11 12 13 14	77 161 175\175/		0362514	4152630	5 23 48 17 42 11 29	175 175 322\182/	
2222222	0123456	15 16 17 18 19 20 21	126 168 175\175/		4036251	1526304	30 6 24 49 18 36 12	175 175 126\161/	
3333333	0123456	22 23 24 25 26 27 28	175 175 175\175/		1403625	5263041	13 31 7 25 43 19 37	175 175 273\189/	
4444444	0123456	29 30 31 32 33 34 35	224 182 175\175/		5140362	2630415	38 14 32 1 26 44 20	175 175  77\168/	
5555555	0123456	36 37 38 39 40 41 42	273 189 175\175/		2514036	6304152	21 39 8 33 2 27 45	175 175 224\196/	
6666666	0123456	43 44 45 46 47 48 49	322 196 175\175/		6251403	3041526	46 15 40 9 34 3 28	175 175  28\175/	

After these considerations we naturally guess: if we prepare one of the Simultaneous MS77 for the original side and apply our Classic Method of Transformation to it, then

we can have got another Simultaneous object, can't we?

We are no more contented with the only result above. We like to have a new different original solution, apply the method to it and find anything new for its result.

How about applying the same transformation method sequentially to every result of it one after another? What kind of group should the results make, then?

Let's make some experiments about these and see how they are going.

## 2. About Simultaneous MS77: Self-complementary and Pan-diagonal

We plan to put some of the Simultaneous type of Order 7: Self-complementary and Pan-diagonal on the original top, apply the classic method of transformation to them, and finally find whether we can make another Simultaneous type of objects or not.

But, to our embarrassment we haven't yet got the complete solution set of orthodox type of Simultaneous MS77. We don't yet know how many solutions exist for this orthodox type, either. It must take too long a time to count them up to the last.

Let's take the solution set of "Complete Euler Type" of Simultaneous MS77 here. We now know well about the complete set of 3456 Standard Solutions of that type and the mother set of 27648 Primitive Solutions equivalent to those Standard ones.

### [List of Primitive Solutions of CES77 for Simultaneous Type: Both SC & PD]

1/H	2/L	1# R C P\ P/	1/H	3/L	2# R C P\ P/
0654321	0531642	1 48 39 30 28 19 10 0 0 0\0/	0654321	0362514	1 46 42 31 27 16 12 0 0 0\0/
2106543	3164205	18 9 7 47 38 29 27 0 0 0\0/	2106543	5140362	20 9 5 43 39 35 24 0 0 0\0/
4321065	6420531	35 26 17 8 6 46 37 0 0 0\0/	4321065	3625140	32 28 17 13 2 47 36 0 0 0\0/
6543210	2053164	45 36 34 25 16 14 5 0 0 0\0/	6543210	1403625	44 40 29 25 21 10 6 0 0 0\0/
1065432	5316420	13 4 44 42 33 24 15 0 0 0\0/	1065432	6251403	14 3 48 37 33 22 18 0 0 0\0/
3210654	1642053	23 21 12 3 43 41 32 0 0 0\0/	3210654	4036251	26 15 11 7 45 41 30 0 0 0\0/
5432106	4205316	40 31 22 20 11 2 49 0 0 0\0/	5432106	2514036	38 34 23 19 8 4 49 0 0 0\0/
1/H	4/L	3# R C P\ P/	2/H	1/L	4# R C P\ P/
0654321	0246135	1 45 40 35 23 18 13 0 0 0\0/	0531642	0654321	1 42 27 12 46 31 16 0 0 0\0/
2106543	6135024	21 9 4 48 36 31 26 0 0 0\0/	3164205	2106543	24 9 43 35 20 5 39 0 0 0\0/
4321065	5024613	34 22 17 12 7 44 39 0 0 0\0/	6420531	4321065	47 32 17 2 36 28 13 0 0 0\0/
6543210	4613502	47 42 30 25 20 8 3 0 0 0\0/	2053164	6543210	21 6 40 25 10 44 29 0 0 0\0/
1065432	3502461	11 6 43 38 33 28 16 0 0 0\0/	5316420	1065432	37 22 14 48 33 18 3 0 0 0\0/
3210654	2461350	24 19 14 2 46 41 29 0 0 0\0/	1642053	3210654	11 45 30 15 7 41 26 0 0 0\0/
5432106	1350246	37 32 27 15 10 5 49 0 0 0\0/	4205316	5432106	34 19 4 38 23 8 49 0 0 0\0/
2/H	3/L	5# R C P\ P/	2/H	4/L	6# R C P\ P/
0531642	0362514	1 39 28 10 48 30 19 0 0 0\0/	0531642	0246135	1 38 26 14 44 32 20 0 0 0\0/
3164205	5140362	27 9 47 29 18 7 38 0 0 0\0/	3164205	6135024	28 9 46 34 15 3 40 0 0 0\0/
6420531	3625140	46 35 17 6 37 26 8 0 0 0\0/	6420531	5024613	48 29 17 5 42 23 11 0 0 0\0/
2053164	1403625	16 5 36 25 14 45 34 0 0 0\0/	2053164	4613502	19 7 37 25 13 43 31 0 0 0\0/
5316420	6251403	42 24 13 44 33 15 4 0 0 0\0/	5316420	3502461	39 27 8 45 33 21 2 0 0 0\0/
1642053	4036251	12 43 32 21 3 41 23 0 0 0\0/	1642053	2461350	10 47 35 16 4 41 22 0 0 0\0/
4205316	2514036	31 20 2 40 22 11 49 0 0 0\0/	4205316	1350246	30 18 6 36 24 12 49 0 0 0\0/
3/H	1/L	7# R C P\ P/	3/H	2/L	8# R C P\ P/
0362514	0654321	1 28 48 19 39 10 30 0 0 0\0/	0362514	0531642	1 27 46 16 42 12 31 0 0 0\0/
5140362	2106543	38 9 29 7 27 47 18 0 0 0\0/	5140362	3164205	39 9 35 5 24 43 20 0 0 0\0/
3625140	4321065	26 46 17 37 8 35 6 0 0 0\0/	3625140	6420531	28 47 17 36 13 32 2 0 0 0\0/
1403625	6543210	14 34 5 25 45 16 36 0 0 0\0/	1403625	2053164	10 29 6 25 44 21 40 0 0 0\0/
6251403	1065432	44 15 42 13 33 4 24 0 0 0\0/	6251403	5316420	48 18 37 14 33 3 22 0 0 0\0/
4036251	3210654	32 3 23 43 21 41 12 0 0 0\0/	4036251	1642053	30 7 26 45 15 41 11 0 0 0\0/
2514036	5432106	20 40 11 31 2 22 49 0 0 0\0/	2514036	4205316	19 38 8 34 4 23 49 0 0 0\0/
3/H	4/L	9# R C P\ P/	4/H	1/L	10# R C P\ P/
0362514	0246135	1 24 47 21 37 11 34 0 0 0\0/	0246135	0654321	1 21 34 47 11 24 37 0 0 0\0/
5140362	6135024	42 9 32 6 22 45 19 0 0 0\0/	6135024	2106543	45 9 22 42 6 19 32 0 0 0\0/
3625140	5024613	27 43 17 40 14 30 4 0 0 0\0/	5024613	4321065	40 4 17 30 43 14 27 0 0 0\0/
1403625	4613502	12 35 2 25 48 15 38 0 0 0\0/	4613502	6543210	35 48 12 25 38 2 15 0 0 0\0/
6251403	3502461	46 20 36 10 33 7 23 0 0 0\0/	3502461	1065432	23 36 7 20 33 46 10 0 0 0\0/
4036251	2461350	31 5 28 44 18 41 8 0 0 0\0/	2461350	3210654	18 31 44 8 28 41 5 0 0 0\0/
2514036	1350246	16 39 13 29 3 26 49 0 0 0\0/	1350246	5432106	13 26 39 3 16 29 49 0 0 0\0/

4/H	2/L		11# R C P\P/	4/H	3/L		12# R C P\P/
0246135	0531642	1 20 32 44 14 26 38	0 0 0\0/	0246135	0362514	1 18 35 45 13 23 40	0 0 0\0/
6135024	3164205	46 9 28 40 3 15 34	0 0 0\0/	6135024	5140362	48 9 26 36 4 21 31	0 0 0\0/
5024613	6420531	42 5 17 29 48 11 23	0 0 0\0/	5024613	3625140	39 7 17 34 44 12 22	0 0 0\0/
4613502	2053164	31 43 13 25 37 7 19	0 0 0\0/	4613502	1403625	30 47 8 25 42 3 20	0 0 0\0/
3502461	5316420	27 39 2 21 33 45 8	0 0 0\0/	3502461	6251403	28 38 6 16 33 43 11	0 0 0\0/
2461350	1642053	16 35 47 10 22 41 4	0 0 0\0/	2461350	4036251	19 29 46 14 24 41 2	0 0 0\0/
1350246	4205316	12 24 36 6 18 30 49	0 0 0\0/	1350246	2514036	10 27 37 5 15 32 49	0 0 0\0/
1/H	6/L	13#	1/H 10/L 49#	1/H 18/L 97#	1/H 26/L 145#		
1 48 39 30 28 17 12	1 47 39 31 28 20 9	1 46 42 30 24 19 13	1 46 42 31 23 20 12				
18 9 7 45 40 29 27	18 10 7 48 37 29 26	17 12 6 43 39 35 23	16 13 5 43 39 35 24				
35 24 19 8 6 46 37	35 27 16 8 5 46 38	32 28 16 10 5 48 36	32 28 17 9 6 47 36				
47 36 34 25 16 14 3	44 36 33 25 17 14 6	47 41 29 25 21 9 3	48 40 29 25 21 10 2				
13 4 44 42 31 26 15	12 4 45 42 34 23 15	14 2 45 40 34 22 18	14 3 44 41 33 22 18				
23 21 10 5 43 41 32	24 21 13 2 43 40 32	27 15 11 7 44 38 33	26 15 11 7 45 37 34				
38 33 22 20 11 2 49	41 30 22 19 11 3 49	37 31 26 20 8 4 49	38 30 27 19 8 4 49				
9/H	2/L	193#	9/H 10/L 241#	9/H 18/L 289#	9/H 26/L 337#		
1 48 32 37 28 12 17	1 47 32 38 28 13 16	1 46 35 37 24 12 20	1 46 35 38 23 13 19				
11 16 7 47 31 36 27	11 17 7 48 30 36 26	10 19 6 43 32 42 23	9 20 5 43 32 42 24				
42 26 10 15 6 46 30	42 27 9 15 5 46 31	39 28 9 17 5 48 29	39 28 10 16 6 47 29				
45 29 41 25 9 21 5	44 29 40 25 10 21 6	47 34 36 25 14 16 3	48 33 36 25 14 17 2				
20 4 44 35 40 24 8	19 4 45 35 41 23 8	21 2 45 33 41 22 11	21 3 44 34 40 22 11				
23 14 19 3 43 34 39	24 14 20 2 43 33 39	27 8 18 7 44 31 40	26 8 18 7 45 30 41				
33 38 22 13 18 2 49	34 37 22 12 18 3 49	30 38 26 13 15 4 49	31 37 27 12 15 4 49				
17/H	2/L	385#	17/H 10/L 433#	17/H 18/L 481#	17/H 26/L 529#		
1 48 18 37 28 12 31	1 47 18 38 28 13 30	1 46 21 37 24 12 34	1 46 21 38 23 13 33				
11 30 7 47 17 36 27	11 31 7 48 16 36 26	10 33 6 43 18 42 23	9 34 5 43 18 42 24				
42 26 10 29 6 46 16	42 27 9 29 5 46 17	39 28 9 31 5 48 15	39 28 10 30 6 47 15				
45 15 41 25 9 35 5	44 15 40 25 10 35 6	47 20 36 25 14 30 3	48 19 36 25 14 31 2				
34 4 44 21 40 24 8	33 4 45 21 41 23 8	35 2 45 19 41 22 11	35 3 44 20 40 22 11				
23 14 33 3 43 20 39	24 14 34 2 43 19 39	27 8 32 7 44 17 40	26 8 32 7 45 16 41				
19 38 22 13 32 2 49	20 37 22 12 32 3 49	16 38 26 13 29 4 49	17 37 27 12 29 4 49				
25/H	2/L	577#	25/H 10/L 625#	25/H 18/L 673#	25/H 26/L 721#		
1 48 11 30 28 19 38	1 47 11 31 28 20 37	1 46 14 30 24 19 41	1 46 14 31 23 20 40				
18 37 7 47 10 29 27	18 38 7 48 9 29 26	17 40 6 43 11 35 23	16 41 5 43 11 35 24				
35 26 17 36 6 46 9	35 27 16 36 5 46 10	32 28 16 38 5 48 8	32 28 17 37 6 47 8				
45 8 34 25 16 42 5	44 8 33 25 17 42 6	47 13 29 25 21 37 3	48 12 29 25 21 38 2				
41 4 44 14 33 24 15	40 4 45 14 34 23 15	42 2 45 12 34 22 18	42 3 44 13 33 22 18				
23 21 40 3 43 13 32	24 21 41 2 43 12 32	27 15 39 7 44 10 33	26 15 39 7 45 9 34				
12 31 22 20 39 2 49	13 30 22 19 39 3 49	9 31 26 20 36 4 49	10 30 27 19 36 4 49				
1/H	33/L	769#	1/H 65/L 1537#	1/H 97/L 2305#	1/H 129/L 3073#		
2 49 39 29 27 19 10	3 49 39 29 26 20 9	5 49 39 29 24 20 9	6 49 39 29 23 19 10				
18 8 6 47 38 30 28	18 8 5 48 37 31 28	18 8 3 48 37 33 28	18 8 2 47 38 34 28				
34 26 17 9 7 46 36	33 27 16 10 7 46 36	31 27 16 12 7 46 36	30 26 17 13 7 46 36				
45 37 35 25 15 13 5	44 38 35 25 15 12 6	44 40 35 25 15 10 6	45 41 35 25 15 9 5				
14 4 43 41 33 24 16	14 4 43 40 34 23 17	14 4 43 38 34 23 19	14 4 43 37 33 24 20				
22 20 12 3 44 42 32	22 19 13 2 45 42 32	22 17 13 2 47 42 32	22 16 12 3 48 42 32				
40 31 23 21 11 1 48	41 30 24 21 11 1 47	41 30 26 21 11 1 45	40 31 27 21 11 1 44				
1/H	161/L	3841#	33/H 1/L 4609#	33/H 34/L 5377#	33/H 66/L 6145#		
7 48 39 30 22 19 10	8 49 27 5 39 31 16	9 48 28 5 39 31 15	10 47 28 6 39 30 15				
18 9 1 47 38 35 27	24 2 36 35 20 12 46	24 1 37 34 21 12 46	23 1 38 33 21 13 46				
29 26 17 14 6 46 37	40 32 17 9 43 28 6	40 32 17 8 44 27 7	41 32 16 8 45 26 7				
45 42 34 25 16 8 5	21 13 47 25 3 37 29	20 14 47 25 3 36 30	19 14 48 25 2 36 31				
13 4 44 36 33 24 21	44 22 7 41 33 18 10	43 23 6 42 33 18 10	43 24 5 42 34 18 9				
23 15 12 3 49 41 32	4 38 30 15 14 48 26	4 38 29 16 13 49 26	4 37 29 17 12 49 27				
40 31 28 20 11 2 43	34 19 11 45 23 1 42	35 19 11 45 22 2 41	35 20 11 44 22 3 40				
33/H	98/L	6913#	33/H 130/L 7681#	33/H 162/L 8449#	65/H 1/L 9217#		
12 46 24 2 42 29 20	13 46 23 3 42 29 19	14 46 22 3 41 30 19	15 49 27 5 32 38 9				
28 1 41 33 18 10 44	28 1 40 34 18 9 45	27 2 40 35 18 8 45	24 2 29 42 13 19 46				
39 31 16 14 43 27 5	39 30 17 14 43 26 6	39 29 17 13 44 26 7	33 39 10 16 43 28 6				
15 13 47 25 3 37 35	15 12 48 25 2 38 35	16 12 49 25 1 38 34	14 20 47 25 3 30 36				
45 23 7 36 34 19 11	44 24 7 36 33 20 11	43 24 6 37 33 21 11	44 22 7 34 40 11 17				
6 40 32 17 9 49 22	5 41 32 16 10 49 22	5 42 32 15 10 48 23	4 31 37 8 21 48 26				
30 21 8 48 26 4 38	31 21 8 47 27 4 37	31 20 9 47 28 4 36	41 12 18 45 23 1 35				

65/H 34/L 9985#	65/H 66/L 10753#	65/H 98/L 11521#	65/H 130/L 12289#
16 48 28 5 32 38 8	17 47 28 6 32 37 8	19 46 24 2 35 36 13	20 46 23 3 35 36 12
24 1 30 41 14 19 46	23 1 31 40 14 20 46	28 1 34 40 11 17 44	28 1 33 41 11 16 45
33 39 10 15 44 27 7	34 39 9 15 45 26 7	32 38 9 21 43 27 5	32 37 10 21 43 26 6
13 21 47 25 3 29 37	12 21 48 25 2 29 38	8 20 47 25 3 30 42	8 19 48 25 2 31 42
43 23 6 35 40 11 17	43 24 5 35 41 11 16	45 23 7 29 41 12 18	44 24 7 29 40 13 18
4 31 36 9 20 49 26	4 30 36 10 19 49 27	6 33 39 10 16 49 22	5 34 39 9 17 49 22
42 12 18 45 22 2 34	42 13 18 44 22 3 33	37 14 15 48 26 4 31	38 14 15 47 27 4 30
65/H 162/L 13057#	97/H 1/L 13825#	97/H 34/L 14593#	97/H 66/L 15361#
21 46 22 3 34 37 12	29 49 27 5 18 38 9	30 48 28 5 18 38 8	31 47 28 6 18 37 8
27 2 33 42 11 15 45	24 2 15 42 13 33 46	24 1 16 41 14 33 46	23 1 17 40 14 34 46
32 36 10 20 44 26 7	19 39 10 30 43 28 6	19 39 10 29 44 27 7	20 39 9 29 45 26 7
9 19 49 25 1 31 41	14 34 47 25 3 16 36	13 35 47 25 3 15 37	12 35 48 25 2 15 38
43 24 6 30 40 14 18	44 22 7 20 40 11 31	43 23 6 21 40 11 31	43 24 5 21 41 11 30
5 35 39 8 17 48 23	4 17 37 8 35 48 26	4 17 36 9 34 49 26	4 16 36 10 33 49 27
38 13 16 47 28 4 29	41 12 32 45 23 1 21	42 12 32 45 22 2 20	42 13 32 44 22 3 19
97/H 98/L 16129#	97/H 130/L 16897#	97/H 162/L 17665#	129/H 1/L 18433#
33 46 24 2 21 36 13	34 46 23 3 21 36 12	35 46 22 3 20 37 12	36 49 27 5 11 31 16
28 1 20 40 11 31 44	28 1 19 41 11 30 45	27 2 19 42 11 29 45	24 2 8 35 20 40 46
18 38 9 35 43 27 5	18 37 10 35 43 26 6	18 36 10 34 44 26 7	12 32 17 37 43 28 6
8 34 47 25 3 16 42	8 33 48 25 2 17 42	9 33 49 25 1 17 41	21 41 47 25 3 9 29
45 23 7 15 41 12 32	44 24 7 15 40 13 32	43 24 6 16 40 14 32	44 22 7 13 33 18 38
6 19 39 10 30 49 22	5 20 39 9 31 49 22	5 21 39 8 31 48 23	4 10 30 15 42 48 26
37 14 29 48 26 4 17	38 14 29 47 27 4 16	38 13 30 47 28 4 15	34 19 39 45 23 1 14
129/H 34/L 19201#	129/H 66/L 19969#	129/H 98/L 20737#	129/H 130/L 21505#
37 48 28 5 11 31 15	38 47 28 6 11 30 15	40 46 24 2 14 29 20	41 46 23 3 14 29 19
24 1 9 34 21 40 46	23 1 10 33 21 41 46	28 1 13 33 18 38 44	28 1 12 34 18 37 45
12 32 17 36 44 27 7	13 32 16 36 45 26 7	11 31 16 42 43 27 5	11 30 17 42 43 26 6
20 42 47 25 3 8 30	19 42 48 25 2 8 31	15 41 47 25 3 9 35	15 40 48 25 2 10 35
43 23 6 14 33 18 38	43 24 5 14 34 18 37	45 23 7 8 34 19 39	44 24 7 8 33 20 39
4 10 29 16 41 49 26	4 9 29 17 40 49 27	6 12 32 17 37 49 22	5 13 32 16 38 49 22
35 19 39 45 22 2 13	35 20 39 44 22 3 12	30 21 36 48 26 4 10	31 21 36 47 27 4 9
129/H 162/L 22273#	161/H 1/L 23041#	161/H 34/L 23809#	161/H 66/L 24577#
42 46 22 3 13 30 19	43 42 27 12 4 31 16	44 41 28 12 4 31 15	45 40 28 13 4 30 15
27 2 12 35 18 36 45	24 9 1 35 20 47 39	24 8 2 34 21 47 39	23 8 3 33 21 48 39
11 29 17 41 44 26 7	5 32 17 44 36 28 13	5 32 17 43 37 27 14	6 32 16 43 38 26 14
16 40 49 25 1 10 34	21 48 40 25 10 2 29	20 49 40 25 10 1 30	19 49 41 25 9 1 31
43 24 6 9 33 21 39	37 22 14 6 33 18 45	36 23 13 7 33 18 45	36 24 12 7 34 18 44
5 14 32 15 38 48 23	11 3 30 15 49 41 26	11 3 29 16 48 42 26	11 2 29 17 47 42 27
31 20 37 47 28 4 8	34 19 46 38 23 8 7	35 19 46 38 22 9 6	35 20 46 37 22 10 5
161/H 98/L 25345#	161/H 130/L 26113#	161/H 162/L 26881#	
47 39 24 9 7 29 20	48 39 23 10 7 29 19	49 39 22 10 6 30 19	
28 8 6 33 18 45 37	28 8 5 34 18 44 38	27 9 5 35 18 43 38	
4 31 16 49 36 27 12	4 30 17 49 36 26 13	4 29 17 48 37 26 14	
15 48 40 25 10 2 35	15 47 41 25 9 3 35	16 47 42 25 8 3 34	
38 23 14 1 34 19 46	37 24 14 1 33 20 46	36 24 13 2 33 21 46	
13 5 32 17 44 42 22	12 6 32 16 45 42 22	12 7 32 15 45 41 23	
30 21 43 41 26 11 3	31 21 43 40 27 11 2	31 20 44 40 28 11 1	

[Count(n1=1/All) = 768/27648] OK!

We should take the mother set of Primitive Solutions for this case, when we are going to make any experiment of transformation. Let's take those 27648 solutions above now and let's not mind if we come to any rotated pattern or any reflected one of a certain solution. Let's assume they are different solutions from each other.

### 3. Apply the Classic Composition sequentially to every Result one after another

Let's repeat the application of Classic Transformation sequentially to every result one after another. What solutions can we make? How many times can we repeat, then?

\*\* Transform each one after another **sequentially** by the **Classic Composition** and

Make the **new 24 Simultaneous MS77: Both Self-complementary and Pan-diagonal** \*\*

[List of 26 **Reconstructions** from each Original **CES77** with Used\_Units and Sum\_Errors]

[ 1]	1H	2L	Org:	1# R C P\ P/	->	191H	72L	1:	25197# R C P\ P/
0654321	0531642	1	48 39 30 28 19 10	0 0 0\ 0/		6135024	2345601	45 11 26 41 7 15 30	0 0 0\ 0/
2106543	3164205	18	9 7 47 38 29 27	0 0 0\ 0/		3502461	6012345	28 36 2 17 32 47 13	0 0 0\ 0/
4321065	6420531	35	26 17 8 6 46 37	0 0 0\ 0/		0246135	3456012	4 19 34 49 8 23 38	0 0 0\ 0/
6543210	2053164	45	36 34 25 16 14 5	0 0 0\ 0/		4613502	0123456	29 44 10 25 40 6 21	0 0 0\ 0/
1065432	5316420	13	4 44 42 33 24 15	0 0 0\ 0/		1350246	4560123	12 27 42 1 16 31 46	0 0 0\ 0/
3210654	1642053	23	21 12 3 43 41 32	0 0 0\ 0/		5024613	1234560	37 3 18 33 48 14 22	0 0 0\ 0/
5432106	4205316	40	31 22 20 11 2 49	0 0 0\ 0/		2461350	5601234	20 35 43 9 24 39 5	0 0 0\ 0/
->	121H	4L	2:	14403# R C P\ P/	->	189H	122L	3:	26090# R C P\ P/
4321065	0246135	29	24 19 14 2 46 41	0 0 0\ 0/		6420531	4205316	47 31 15 6 39 23 14	0 0 0\ 0/
0654321	6135024	7	44 39 34 22 17 12	0 0 0\ 0/		0531642	1642053	2 42 26 10 43 34 18	0 0 0\ 0/
3210654	5024613	27	15 10 5 49 37 32	0 0 0\ 0/		1642053	5316420	13 46 30 21 5 38 22	0 0 0\ 0/
6543210	4613502	47	42 30 25 20 8 3	0 0 0\ 0/		2053164	2053164	17 1 41 25 9 49 33	0 0 0\ 0/
2106543	3502461	18	13 1 45 40 35 23	0 0 0\ 0/		3164205	6420531	28 12 45 29 20 4 37	0 0 0\ 0/
5432106	2461350	38	33 28 16 11 6 43	0 0 0\ 0/		4205316	3164205	32 16 7 40 24 8 48	0 0 0\ 0/
1065432	1350246	9	4 48 36 31 26 21	0 0 0\ 0/		5316420	0531642	36 27 11 44 35 19 3	0 0 0\ 0/
->	71H	69L	4:	10795# R C P\ P/	->	124H	143L	5:	17543# R C P\ P/
2461350	2630415	17	35 46 8 26 37 6	0 0 0\ 0/		4036251	5316420	34 4 23 49 19 38 8	0 0 0\ 0/
5024613	3041526	39	1 19 30 48 10 28	0 0 0\ 0/		3625140	4205316	26 45 15 41 11 30 7	0 0 0\ 0/
1350246	4152630	12	23 41 3 21 32 43	0 0 0\ 0/		2514036	3164205	18 37 14 33 3 22 48	0 0 0\ 0/
4613502	5263041	34	45 14 25 36 5 16	0 0 0\ 0/		1403625	2053164	10 29 6 25 44 21 40	0 0 0\ 0/
0246135	6304152	7	18 29 47 9 27 38	0 0 0\ 0/		0362514	1642053	2 28 47 17 36 13 32	0 0 0\ 0/
3502461	0415263	22	40 2 20 31 49 11	0 0 0\ 0/		6251403	0531642	43 20 39 9 35 5 24	0 0 0\ 0/
6135024	1526304	44	13 24 42 4 15 33	0 0 0\ 0/		5140362	6420531	42 12 31 1 27 46 16	0 0 0\ 0/
->	50H	70L	6:	6545# R C P\ P/	->	123H	49L	7:	15271# R C P\ P/
1350246	2514036	10	27 37 5 15 32 49	0 0 0\ 0/		4152630	1526304	30 13 38 21 46 22 5	0 0 0\ 0/
2461350	4036251	19	29 46 14 24 41 2	0 0 0\ 0/		2630415	0415263	15 47 23 6 31 14 39	0 0 0\ 0/
3502461	6251403	28	38 6 16 33 43 11	0 0 0\ 0/		0415263	6304152	7 32 8 40 16 48 24	0 0 0\ 0/
4613502	1403625	30	47 8 25 42 3 20	0 0 0\ 0/		5263041	5263041	41 17 49 25 1 33 9	0 0 0\ 0/
5024613	3625140	39	7 17 34 44 12 22	0 0 0\ 0/		3041526	4152630	26 2 34 10 42 18 43	0 0 0\ 0/
6135024	5140362	48	9 26 36 4 21 31	0 0 0\ 0/		1526304	3041526	11 36 19 44 27 3 35	0 0 0\ 0/
0246135	0362514	1	18 35 45 13 23 40	0 0 0\ 0/		6304152	2630415	45 28 4 29 12 37 20	0 0 0\ 0/
->	144H	142L	8:	21791# R C P\ P/	->	51H	190L	9:	8996# R C P\ P/
5140362	5432106	41	12 32 3 23 43 21	0 0 0\ 0/		1234560	6304152	14 18 22 33 37 48 3	0 0 0\ 0/
6251403	3210654	46	17 37 8 35 6 26	0 0 0\ 0/		3456012	1526304	23 34 38 49 4 8 19	0 0 0\ 0/
0362514	1065432	2	22 49 20 40 11 31	0 0 0\ 0/		5601234	3041526	39 43 5 9 20 24 35	0 0 0\ 0/
1403625	6543210	14	34 5 25 45 16 36	0 0 0\ 0/		0123456	5263041	6 10 21 25 29 40 44	0 0 0\ 0/
2514036	4321065	19	39 10 30 1 28 48	0 0 0\ 0/		2345601	0415263	15 26 30 41 45 7 11	0 0 0\ 0/
3625140	2106543	24	44 15 42 13 33 4	0 0 0\ 0/		4560123	2630415	31 42 46 1 12 16 27	0 0 0\ 0/
4036251	0654321	29	7 27 47 18 38 9	0 0 0\ 0/		6012345	4152630	47 2 13 17 28 32 36	0 0 0\ 0/
->	3H	141L	10:	3139# R C P\ P/	->	52H	1L	11:	5002# R C P\ P/
0362514	5601234	6	28 43 16 38 11 33	0 0 0\ 0/		1065432	0654321	8 7 48 40 32 24 16	0 0 0\ 0/
5140362	1234560	37	10 32 5 27 49 15	0 0 0\ 0/		5432106	2106543	38 30 22 21 13 5 46	0 0 0\ 0/
3625140	4560123	26	48 21 36 9 31 4	0 0 0\ 0/		2106543	4321065	19 11 3 44 36 35 27	0 0 0\ 0/
1403625	0123456	8	30 3 25 47 20 42	0 0 0\ 0/		6543210	6543210	49 41 33 25 17 9 1	0 0 0\ 0/
6251403	3456012	46	19 41 14 29 2 24	0 0 0\ 0/		3210654	1065432	23 15 14 6 47 39 31	0 0 0\ 0/
4036251	6012345	35	1 23 45 18 40 13	0 0 0\ 0/		0654321	3210654	4 45 37 29 28 20 12	0 0 0\ 0/
2514036	2345601	17	39 12 34 7 22 44	0 0 0\ 0/		4321065	5432106	34 26 18 10 2 43 42	0 0 0\ 0/
->	192H	191L	12:	27648# R C P\ P/	->	2H	121L	13:	2452# R C P\ P/
6012345	6135024	49	2 11 20 22 31 40	0 0 0\ 0/		0531642	4321065	5 39 24 9 43 35 20	0 0 0\ 0/
4560123	3502461	32	41 43 3 12 21 23	0 0 0\ 0/		3164205	0654321	22 14 48 33 18 3 37	0 0 0\ 0/
2345601	0246135	15	24 33 42 44 4 13	0 0 0\ 0/		6420531	3210654	46 31 16 1 42 27 12	0 0 0\ 0/
0123456	4613502	5	14 16 25 34 36 45	0 0 0\ 0/		2053164	6543210	21 6 40 25 10 44 29	0 0 0\ 0/
5601234	1350246	37	46 6 8 17 26 35	0 0 0\ 0/		5316420	2106543	38 23 8 49 34 19 4	0 0 0\ 0/
3456012	5024613	27	29 38 47 7 9 18	0 0 0\ 0/		1642053	5432106	13 47 32 17 2 36 28	0 0 0\ 0/
1234560	2461350	10	19 28 30 39 48 1	0 0 0\ 0/		4205316	1065432	30 15 7 41 26 11 45	0 0 0\ 0/
->	72H	189L	14:	13246# R C P\ P/	->	4H	71L	15:	1559# R C P\ P/
2345601	6420531	21	26 31 36 48 4 9	0 0 0\ 0/		0246135	2461350	3 19 35 44 11 27 36	0 0 0\ 0/
6012345	0531642	43	6 11 16 28 33 38	0 0 0\ 0/		6135024	5024613	48 8 24 40 7 16 32	0 0 0\ 0/
3456012	1642053	23	35 40 45 1 13 18	0 0 0\ 0/		5024613	1350246	37 4 20 29 45 12 28	0 0 0\ 0/
0123456	2053164	3	8 20 25 30 42 47	0 0 0\ 0/		4613502	4613502	33 49 9 25 41 1 17	0 0 0\ 0/
4560123	3164205	32	37 49 5 10 15 27	0 0 0\ 0/		3502461	0246135	22 38 5 21 30 46 13	0 0 0\ 0/
1234560	4205316	12	17 22 34 39 44 7	0 0 0\ 0/		2461350	3502461	18 34 43 10 26 42 2	0 0 0\ 0/
5601234	5316420	41	46 2 14 19 24 29	0 0 0\ 0/		1350246	6135024	14 23 39 6 15 31 47	0 0 0\ 0/

-> 122H	124L	16:	16854# R C P\P/	-> 69H	50L	17:	10106# R C P\P/
4205316	4036251	33 15 4 42 24 13 44	0 0 0\0/	2630415	1350246	16 46 27 1 31 12 42	0 0 0\0/
1642053	3625140	11 49 31 20 2 40 22	0 0 0\0/	3041526	2461350	24 5 35 9 39 20 43	0 0 0\0/
5316420	2514036	38 27 9 47 29 18 7	0 0 0\0/	4152630	3502461	32 13 36 17 47 28 2	0 0 0\0/
2053164	1403625	16 5 36 25 14 45 34	0 0 0\0/	5263041	4613502	40 21 44 25 6 29 10	0 0 0\0/
6420531	0362514	43 32 21 3 41 23 12	0 0 0\0/	6304152	5024613	48 22 3 33 14 37 18	0 0 0\0/
3164205	6251403	28 10 48 30 19 1 39	0 0 0\0/	0415263	6135024	7 30 11 41 15 45 26	0 0 0\0/
0531642	5140362	6 37 26 8 46 35 17	0 0 0\0/	1526304	0246135	8 38 19 49 23 4 34	0 0 0\0/
-> 143H	123L	18:	21104# R C P\P/	-> 70H	144L	19:	12378# R C P\P/
5316420	4152630	40 23 13 45 35 18 1	0 0 0\0/	2514036	5140362	20 37 12 29 4 28 45	0 0 0\0/
4205316	2630415	31 21 4 36 26 9 48	0 0 0\0/	4036251	6251403	35 3 27 44 19 36 11	0 0 0\0/
3164205	0415263	22 12 44 34 17 7 39	0 0 0\0/	6251403	0362514	43 18 42 10 34 2 26	0 0 0\0/
2053164	5263041	20 3 42 25 8 47 30	0 0 0\0/	1403625	1403625	9 33 1 25 49 17 41	0 0 0\0/
1642053	3041526	11 43 33 16 6 38 28	0 0 0\0/	3625140	2514036	24 48 16 40 8 32 7	0 0 0\0/
0531642	1526304	2 41 24 14 46 29 19	0 0 0\0/	5140362	3625140	39 14 31 6 23 47 15	0 0 0\0/
6420531	6304152	49 32 15 5 37 27 10	0 0 0\0/	0362514	4036251	5 22 46 21 38 13 30	0 0 0\0/
-> 49H	51L	20:	5858# R C P\P/	-> 142H	3L	21:	18653# R C P\P/
1526304	1234560	9 38 18 47 27 7 29	0 0 0\0/	5432106	0362514	36 32 28 17 13 2 47	0 0 0\0/
0415263	3456012	4 33 13 42 15 44 24	0 0 0\0/	3210654	5140362	27 16 12 1 46 42 31	0 0 0\0/
6304152	5601234	48 28 1 30 10 39 19	0 0 0\0/	1065432	3625140	11 7 45 41 30 26 15	0 0 0\0/
5263041	0123456	36 16 45 25 5 34 14	0 0 0\0/	6543210	1403625	44 40 29 25 21 10 6	0 0 0\0/
4152630	2345601	31 11 40 20 49 22 2	0 0 0\0/	4321065	6251403	35 24 20 9 5 43 39	0 0 0\0/
3041526	4560123	26 6 35 8 37 17 46	0 0 0\0/	2106543	4036251	19 8 4 49 38 34 23	0 0 0\0/
2630415	6012345	21 43 23 3 32 12 41	0 0 0\0/	0654321	2514036	3 48 37 33 22 18 14	0 0 0\0/
-> 190H	52L	22:	24510# R C P\P/	-> 141H	192L	23:	22647# R C P\P/
6304152	1065432	44 22 7 34 12 39 17	0 0 0\0/	5601234	6012345	42 43 2 10 18 26 34	0 0 0\0/
1526304	5432106	13 40 18 45 23 1 35	0 0 0\0/	1234560	4560123	12 20 28 29 37 45 4	0 0 0\0/
3041526	2106543	24 2 29 14 41 19 46	0 0 0\0/	4560123	2345601	31 39 47 6 14 15 23	0 0 0\0/
5263041	6543210	42 20 47 25 3 30 8	0 0 0\0/	0123456	0123456	1 9 17 25 33 41 49	0 0 0\0/
0415263	3210654	4 31 9 36 21 48 26	0 0 0\0/	3456012	5601234	27 35 36 44 3 11 19	0 0 0\0/
2630415	0654321	15 49 27 5 32 10 37	0 0 0\0/	6012345	3456012	46 5 13 21 22 30 38	0 0 0\0/
4152630	4321065	33 11 38 16 43 28 6	0 0 0\0/	2345601	1234560	16 24 32 40 48 7 8	0 0 0\0/
-> 1H	2L	24:	1# R C P\P/	-> 191H	72L	25:	25197# R C P\P/
0654321	0531642	1 48 39 30 28 19 10	0 0 0\0/	6135024	2345601	45 11 26 41 7 15 30	0 0 0\0/
2106543	3164205	18 9 7 47 38 29 27	0 0 0\0/	3502461	6012345	28 36 2 17 32 47 13	0 0 0\0/
4321065	6420531	35 26 17 8 6 46 37	0 0 0\0/	0246135	3456012	4 19 34 49 8 23 38	0 0 0\0/
6543210	2053164	45 36 34 25 16 14 5	0 0 0\0/	4613502	0123456	29 44 10 25 40 6 21	0 0 0\0/
1065432	5316420	13 4 44 42 33 24 15	0 0 0\0/	1350246	4560123	12 27 42 1 16 31 46	0 0 0\0/
3210654	1642053	23 21 12 3 43 41 32	0 0 0\0/	5024613	1234560	37 3 18 33 48 14 22	0 0 0\0/
5432106	4205316	40 31 22 20 11 2 49	0 0 0\0/	2461350	5601234	20 35 43 9 24 39 5	0 0 0\0/
[ 2 ]	1H	3L	Org: 2# R C P\P/	-> 191H	52L	1:	24513# R C P\P/
0654321	0362514	1 46 42 31 27 16 12	0 0 0\0/	6135024	1065432	44 8 28 41 5 18 31	0 0 0\0/
2106543	5140362	20 9 5 43 39 35 24	0 0 0\0/	3502461	5432106	27 40 4 17 30 43 14	0 0 0\0/
4321065	3625140	32 28 17 13 2 47 36	0 0 0\0/	0246135	2106543	3 16 29 49 13 26 39	0 0 0\0/
6543210	1403625	44 40 29 25 21 10 6	0 0 0\0/	4613502	6543210	35 48 12 25 38 2 15	0 0 0\0/
1065432	6251403	14 3 48 37 33 22 18	0 0 0\0/	1350246	3210654	11 24 37 1 21 34 47	0 0 0\0/
3210654	4036251	26 15 11 7 45 41 30	0 0 0\0/	5024613	0654321	36 7 20 33 46 10 23	0 0 0\0/
5432106	2514036	38 34 23 19 8 4 49	0 0 0\0/	2461350	4321065	19 32 45 9 22 42 6	0 0 0\0/
-> 121H	192L	2:	18399# R C P\P/	-> 189H	2L	3:	23642# R C P\P/
4321065	6012345	35 22 16 10 4 47 41	0 0 0\0/	6420531	0531642	43 34 18 2 42 26 10	0 0 0\0/
0654321	4560123	5 48 42 29 23 17 11	0 0 0\0/	0531642	3164205	4 37 28 12 45 29 20	0 0 0\0/
3210654	2345601	24 18 12 6 49 36 30	0 0 0\0/	1642053	6420531	14 47 31 15 6 39 23	0 0 0\0/
6543210	0123456	43 37 31 25 19 13 7	0 0 0\0/	2053164	2053164	17 1 41 25 9 49 33	0 0 0\0/
2106543	5601234	20 14 1 44 38 32 26	0 0 0\0/	3164205	5316420	27 11 44 35 19 3 36	0 0 0\0/
5432106	3456012	39 33 27 21 8 2 45	0 0 0\0/	4205316	1642053	30 21 5 38 22 13 46	0 0 0\0/
1065432	1234560	9 3 46 40 34 28 15	0 0 0\0/	5316420	4205316	40 24 8 48 32 16 7	0 0 0\0/
-> 71H	72L	4:	10797# R C P\P/	-> 124H	4L	5:	14412# R C P\P/
2461350	2345601	17 32 47 13 28 36 2	0 0 0\0/	4036251	0246135	29 3 26 49 16 39 13	0 0 0\0/
5024613	6012345	42 1 16 31 46 12 27	0 0 0\0/	3625140	6135024	28 44 18 41 8 31 5	0 0 0\0/
1350246	3456012	11 26 41 7 15 30 45	0 0 0\0/	2514036	5024613	20 36 10 33 7 23 46	0 0 0\0/
4613502	0123456	29 44 10 25 40 6 21	0 0 0\0/	1403625	4613502	12 35 2 25 48 15 38	0 0 0\0/
0246135	4560123	5 20 35 43 9 24 39	0 0 0\0/	0362514	3502461	4 27 43 17 40 14 30	0 0 0\0/
3502461	1234560	23 38 4 19 34 49 8	0 0 0\0/	6251403	2461350	45 19 42 9 32 6 22	0 0 0\0/
6135024	5601234	48 14 22 37 3 18 33	0 0 0\0/	5140362	1350246	37 11 34 1 24 47 21	0 0 0\0/

-> 50H	122L	6:	7444#	R C P\ P/	-> 123H	69L	7:	15955#	R C P\ P/
1350246	4205316	12 24 36	6 18 30 49	0 0 0\ 0/	4152630	2630415	31 14 39 15 47 23	6 0 0 0\ 0/	
2461350	1642053	16 35 47	10 22 41 4	0 0 0\ 0/	2630415	3041526	18 43 26 2 34 10 42	0 0 0\ 0/	
3502461	5316420	27 39 2 21 33 45	8	0 0 0\ 0/	0415263	4152630	5 30 13 38 21 46 22	0 0 0\ 0/	
4613502	2053164	31 43 13 25 37 7 19		0 0 0\ 0/	5263041	5263041	41 17 49 25 1 33 9	0 0 0\ 0/	
5024613	6420531	42 5 17 29 48 11 23		0 0 0\ 0/	3041526	6304152	28 4 29 12 37 20 45	0 0 0\ 0/	
6135024	3164205	46 9 28 40 3 15 34		0 0 0\ 0/	1526304	0415263	8 40 16 48 24 7 32	0 0 0\ 0/	
0246135	0531642	1 20 32 44 14 26 38		0 0 0\ 0/	6304152	1526304	44 27 3 35 11 36 19	0 0 0\ 0/	
-> 144H	143L	8:	21792#	R C P\ P/	-> 51H	70L	9:	6547#	R C P\ P/
5140362	5316420	41 11 30 7 26 45 15		0 0 0\ 0/	1234560	2514036	10 20 23 33 36 46 7	0 0 0\ 0/	
6251403	4205316	47 17 36 13 32 2 28		0 0 0\ 0/	3456012	4036251	26 29 39 49 3 13 16	0 0 0\ 0/	
0362514	3164205	4 23 49 19 38 8 34		0 0 0\ 0/	5601234	6251403	42 45 6 9 19 22 32	0 0 0\ 0/	
1403625	2053164	10 29 6 25 44 21 40		0 0 0\ 0/	0123456	1403625	2 12 15 25 35 38 48	0 0 0\ 0/	
2514036	1642053	16 42 12 31 1 27 46		0 0 0\ 0/	2345601	3625140	18 28 31 41 44 5 8	0 0 0\ 0/	
3625140	0531642	22 48 18 37 14 33 3		0 0 0\ 0/	4560123	5140362	34 37 47 1 11 21 24	0 0 0\ 0/	
4036251	6420531	35 5 24 43 20 39 9		0 0 0\ 0/	6012345	0362514	43 4 14 17 27 30 40	0 0 0\ 0/	
-> 3H	49L	10:	871#	R C P\ P/	-> 52H	142L	11:	8134#	R C P\ P/
0362514	1526304	2 27 45 21 39 8 33		0 0 0\ 0/	1065432	5432106	13 5 46 38 30 22 21	0 0 0\ 0/	
5140362	0415263	36 12 30 6 24 49 18		0 0 0\ 0/	5432106	3210654	39 31 23 15 14 6 47	0 0 0\ 0/	
3625140	6304152	28 46 15 40 9 34 3		0 0 0\ 0/	2106543	1065432	16 8 7 48 40 32 24	0 0 0\ 0/	
1403625	5263041	13 31 7 25 43 19 37		0 0 0\ 0/	6543210	6543210	49 41 33 25 17 9 1	0 0 0\ 0/	
6251403	4152630	47 16 41 10 35 4 22		0 0 0\ 0/	3210654	4321065	26 18 10 2 43 42 34	0 0 0\ 0/	
4036251	3041526	32 1 26 44 20 38 14		0 0 0\ 0/	0654321	2106543	3 44 36 35 27 19 11	0 0 0\ 0/	
2514036	2630415	17 42 11 29 5 23 48		0 0 0\ 0/	4321065	0654321	29 28 20 12 4 45 37	0 0 0\ 0/	
-> 192H	190L	12:	27647#	R C P\ P/	-> 2H	141L	13:	3136#	R C P\ P/
6012345	6304152	49 4 8 19 23 34 38		0 0 0\ 0/	0531642	5601234	6 42 22 9 45 32 19	0 0 0\ 0/	
4560123	1526304	30 41 45 7 11 15 26		0 0 0\ 0/	3164205	1234560	23 10 46 33 20 7 36	0 0 0\ 0/	
2345601	3041526	18 22 33 37 48 3 14		0 0 0\ 0/	6420531	4560123	47 34 21 1 37 24 11	0 0 0\ 0/	
0123456	5263041	6 10 21 25 29 40 44		0 0 0\ 0/	2053164	0123456	15 2 38 25 12 48 35	0 0 0\ 0/	
5601234	0415263	36 47 2 13 17 28 32		0 0 0\ 0/	5316420	3456012	39 26 13 49 29 16 3	0 0 0\ 0/	
3456012	2630415	24 35 39 43 5 9 20		0 0 0\ 0/	1642053	6012345	14 43 30 17 4 40 27	0 0 0\ 0/	
1234560	4152630	12 16 27 31 42 46 1		0 0 0\ 0/	4205316	2345601	31 18 5 41 28 8 44	0 0 0\ 0/	
-> 72H	1L	14:	9250#	R C P\ P/	-> 4H	191L	15:	4007#	R C P\ P/
2345601	0654321	15 28 34 40 46 3 9		0 0 0\ 0/	0246135	6135024	7 16 32 48 8 24 40	0 0 0\ 0/	
6012345	2106543	45 2 8 21 27 33 39		0 0 0\ 0/	6135024	3502461	46 13 22 38 5 21 30	0 0 0\ 0/	
3456012	4321065	26 32 38 44 1 14 20		0 0 0\ 0/	5024613	0246135	36 3 19 35 44 11 27	0 0 0\ 0/	
0123456	6543210	7 13 19 25 31 37 43		0 0 0\ 0/	4613502	4613502	33 49 9 25 41 1 17	0 0 0\ 0/	
4560123	1065432	30 36 49 6 12 18 24		0 0 0\ 0/	3502461	1350246	23 39 6 15 31 47 14	0 0 0\ 0/	
1234560	3210654	11 17 23 29 42 48 5		0 0 0\ 0/	2461350	5024613	20 29 45 12 28 37 4	0 0 0\ 0/	
5601234	5432106	41 47 4 10 16 22 35		0 0 0\ 0/	1350246	2461350	10 26 42 2 18 34 43	0 0 0\ 0/	
-> 122H	121L	16:	16852#	R C P\ P/	-> 69H	189L	17:	13237#	R C P\ P/
4205316	4321065	33 18 3 37 22 14 48		0 0 0\ 0/	2630415	6420531	21 47 24 1 34 11 37	0 0 0\ 0/	
1642053	0654321	8 49 34 19 4 38 23		0 0 0\ 0/	3041526	0531642	22 6 32 9 42 19 45	0 0 0\ 0/	
5316420	3210654	39 24 9 43 35 20 5		0 0 0\ 0/	4152630	1642053	30 14 40 17 43 27 4	0 0 0\ 0/	
2053164	6543210	21 6 40 25 10 44 29		0 0 0\ 0/	5263041	2053164	38 15 48 25 2 35 12	0 0 0\ 0/	
6420531	2106543	45 30 15 7 41 26 11		0 0 0\ 0/	6304152	3164205	46 23 7 33 10 36 20	0 0 0\ 0/	
3164205	5432106	27 12 46 31 16 1 42		0 0 0\ 0/	0415263	4205316	5 31 8 41 18 44 28	0 0 0\ 0/	
0531642	1065432	2 36 28 13 47 32 17		0 0 0\ 0/	1526304	5316420	13 39 16 49 26 3 29	0 0 0\ 0/	
-> 143H	71L	18:	20205#	R C P\ P/	-> 70H	124L	19:	11694#	R C P\ P/
5316420	2461350	38 26 14 44 32 20 1		0 0 0\ 0/	2514036	4036251	19 36 11 35 3 27 44	0 0 0\ 0/	
4205316	5024613	34 15 3 40 28 9 46		0 0 0\ 0/	4036251	3625140	32 7 24 48 16 40 8	0 0 0\ 0/	
3164205	1350246	23 11 48 29 17 5 42		0 0 0\ 0/	6251403	2514036	45 20 37 12 29 4 28	0 0 0\ 0/	
2053164	4613502	19 7 37 25 13 43 31		0 0 0\ 0/	1403625	1403625	9 33 1 25 49 17 41	0 0 0\ 0/	
1642053	0246135	8 45 33 21 2 39 27		0 0 0\ 0/	3625140	0362514	22 46 21 38 13 30 5	0 0 0\ 0/	
0531642	3502461	4 41 22 10 47 35 16		0 0 0\ 0/	5140362	6251403	42 10 34 2 26 43 18	0 0 0\ 0/	
6420531	6135024	49 30 18 6 36 24 12		0 0 0\ 0/	0362514	5140362	6 23 47 15 39 14 31	0 0 0\ 0/	
-> 49H	50L	20:	5857#	R C P\ P/	-> 142H	123L	21:	21102#	R C P\ P/
1526304	1350246	9 39 20 43 24 5 35		0 0 0\ 0/	5432106	4152630	40 30 27 17 14 4 43	0 0 0\ 0/	
0415263	2461350	3 33 14 37 18 48 22		0 0 0\ 0/	3210654	2630415	24 21 11 1 47 37 34	0 0 0\ 0/	
6304152	3502461	46 27 1 31 12 42 16		0 0 0\ 0/	1065432	0415263	8 5 44 41 31 28 18	0 0 0\ 0/	
5263041	4613502	40 21 44 25 6 29 10		0 0 0\ 0/	6543210	5263041	48 38 35 25 15 12 2	0 0 0\ 0/	
4152630	5024613	34 8 38 19 49 23 4		0 0 0\ 0/	4321065	3041526	32 22 19 9 6 45 42	0 0 0\ 0/	
3041526	6135024	28 2 32 13 36 17 47		0 0 0\ 0/	2106543	1526304	16 13 3 49 39 29 26	0 0 0\ 0/	
2630415	0246135	15 45 26 7 30 11 41		0 0 0\ 0/	0654321	6304152	7 46 36 33 23 20 10	0 0 0\ 0/	



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-> 190H 144L 22: 26778#|R|C|P\P/ -> 141H 51L 23: 19515#|R|C|P\P/
6304152 5140362 48 23 5 29 11 42 17|0|0|0\0/ 5601234 1234560 37 45 4 12 20 28 29|0|0|0\0/
1526304 6251403 14 38 20 44 26 1 32|0|0|0\0/ 1234560 3456012 11 19 27 35 36 44 3|0|0|0\0/
3041526 0362514 22 4 35 10 41 16 47|0|0|0\0/ 4560123 5601234 34 42 43 2 10 18 26|0|0|0\0/
5263041 1403625 37 19 43 25 7 31 13|0|0|0\0/ 0123456 0123456 1 9 17 25 33 41 49|0|0|0\0/
0415263 2514036 3 34 9 40 15 46 28|0|0|0\0/ 3456012 2345601 24 32 40 48 7 8 16|0|0|0\0/
2630415 3625140 18 49 24 6 30 12 36|0|0|0\0/ 6012345 4560123 47 6 14 15 23 31 39|0|0|0\0/
4152630 4036251 33 8 39 21 45 27 2|0|0|0\0/ 2345601 6012345 21 22 30 38 46 5 13|0|0|0\0/

-> 1H 3L 24: 2#|R|C|P\P/ -> 191H 52L 25: 24513#|R|C|P\P/
0654321 0362514 1 46 42 31 27 16 12|0|0|0\0/ 6135024 1065432 44 8 28 41 5 18 31|0|0|0\0/
2106543 5140362 20 9 5 43 39 35 24|0|0|0\0/ 3502461 5432106 27 40 4 17 30 43 14|0|0|0\0/
4321065 3625140 32 28 17 13 2 47 36|0|0|0\0/ 0246135 2106543 3 16 29 49 13 26 39|0|0|0\0/
6543210 1403625 44 40 29 25 21 10 6|0|0|0\0/ 4613502 6543210 35 48 12 25 38 2 15|0|0|0\0/
1065432 6251403 14 3 48 37 33 22 18|0|0|0\0/ 1350246 3210654 11 24 37 1 21 34 47|0|0|0\0/
3210654 4036251 26 15 11 7 45 41 30|0|0|0\0/ 5024613 0654321 36 7 20 33 46 10 23|0|0|0\0/
5432106 2514036 38 34 23 19 8 4 49|0|0|0\0/ 2461350 4321065 19 32 45 9 22 42 6|0|0|0\0/
. . . . .

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The above-listed data shows the first two examples of our experimental result.

Check if all the results are just the Simultaneous type of MS77: Both SC and PD.

Watch the 6-th, 12-th, 18-th and 24-th results. They are the rotated patterns of original by the 90, 180, 270 and 360 degrees anti-clockwise. The last 24-th pattern comes back to the original, and the rest after it shows the repetition of a whole circle.

The 6-th pattern actually comes back to the original from the view point of Standard Solutions. It is only the rotated pattern. But in the set of Primitive Solutions we don't mind if any rotation or reflection of a certain solution may come. They are different.

Among the first 24 solutions we can find no duplication of any other original one.

### [Compact List 2 of 24 Sequential Reconstructions from each Original CES77]

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[ 1] 1H 2L 1# -> 1: 191H 72L 25197# -> 2: 121H 4L 14403# -> 3: 189H 122L 26090#
1 48 39 30 28 19 10 45 11 26 41 7 15 30 29 24 19 14 2 46 41 47 31 15 6 39 23 14
18 9 7 47 38 29 27 28 36 2 17 32 47 13 7 44 39 34 22 17 12 2 42 26 10 43 34 18
35 26 17 8 6 46 37 4 19 34 49 8 23 38 27 15 10 5 49 37 32 13 46 30 21 5 38 22
45 36 34 25 16 14 5 29 44 10 25 40 6 21 47 42 30 25 20 8 3 17 1 41 25 9 49 33
13 4 44 42 33 24 15 12 27 42 1 16 31 46 18 13 1 45 40 35 23 28 12 45 29 20 4 37
23 21 12 3 43 41 32 37 3 18 33 48 14 22 38 33 28 16 11 6 43 32 16 7 40 24 8 48
40 31 22 20 11 2 49 20 35 43 9 24 39 5 9 4 48 36 31 26 21 36 27 11 44 35 19 3

-> 4: 71H 69L 10795# -> 5: 124H 143L 17543# -> 6: 50H 70L 6545# -> 7: 123H 49L 15271#
17 35 46 8 26 37 6 34 4 23 49 19 38 8 10 27 37 5 15 32 49 30 13 38 21 46 22 5
39 1 19 30 48 10 28 26 45 15 41 11 30 7 19 29 46 14 24 41 2 15 47 23 6 31 14 39
12 23 41 3 21 32 43 18 37 14 33 3 22 48 28 38 6 16 33 43 11 7 32 8 40 16 48 24
34 45 14 25 36 5 16 10 29 6 25 44 21 40 30 47 8 25 42 3 20 41 17 49 25 1 33 9
7 18 29 47 9 27 38 2 28 47 17 36 13 32 39 7 17 34 44 12 22 26 2 34 10 42 18 43
22 40 2 20 31 49 11 43 20 39 9 35 5 24 48 9 26 36 4 21 31 11 36 19 44 27 3 35
44 13 24 42 4 15 33 42 12 31 1 27 46 16 1 18 35 45 13 23 40 45 28 4 29 12 37 20

-> 8: 144H 142L 21791# -> 9: 51H 190L 8996# -> 10: 3H 141L 3139# -> 11: 52H 1L 5002#
41 12 32 3 23 43 21 14 18 22 33 37 48 3 6 28 43 16 38 11 33 8 7 48 40 32 24 16
46 17 37 8 35 6 26 23 34 38 49 4 8 19 37 10 32 5 27 49 15 38 30 22 21 13 5 46
2 22 49 20 40 11 31 39 43 5 9 20 24 35 26 48 21 36 9 31 4 19 11 3 44 36 35 27
14 34 5 25 45 16 36 6 10 21 25 29 40 44 8 30 3 25 47 20 42 49 41 33 25 17 9 1
19 39 10 30 1 28 48 15 26 30 41 45 7 11 46 19 41 14 29 2 24 23 15 14 6 47 39 31
24 44 15 42 13 33 4 31 42 46 1 12 16 27 35 1 23 45 18 40 13 4 45 37 29 28 20 12
29 7 27 47 18 38 9 47 2 13 17 28 32 36 17 39 12 34 7 22 44 34 26 18 10 2 43 42

-> 12: 192H 191L 27648# -> 13: 2H 121L 2452# -> 14: 72H 189L 13246# -> 15: 4H 71L 1559#
49 2 11 20 22 31 40 5 39 24 9 43 35 20 21 26 31 36 48 4 9 3 19 35 44 11 27 36
32 41 43 3 12 21 23 22 14 48 33 18 3 37 43 6 11 16 28 33 38 48 8 24 40 7 16 32
15 24 33 42 44 4 13 46 31 16 1 42 27 12 23 35 40 45 1 13 18 37 4 20 29 45 12 28
5 14 16 25 34 36 45 21 6 40 25 10 44 29 3 8 20 25 30 42 47 33 49 9 25 41 1 17
37 46 6 8 17 26 35 38 23 8 49 34 19 4 32 37 49 5 10 15 27 22 38 5 21 30 46 13
27 29 38 47 7 9 18 13 47 32 17 2 36 28 12 17 22 34 39 44 7 18 34 43 10 26 42 2
10 19 28 30 39 48 1 30 15 7 41 26 11 45 41 46 2 14 19 24 29 14 23 39 6 15 31 47

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->16: 122H 124L 16854# ->17: 69H 50L 10106# ->18: 143H 123L 21104# ->19: 70H 144L 12378#  
 33 15 4 42 24 13 44 16 46 27 1 31 12 42 40 23 13 45 35 18 1 20 37 12 29 4 28 45  
 11 49 31 20 2 40 22 24 5 35 9 39 20 43 31 21 4 36 26 9 48 35 3 27 44 19 36 11  
 38 27 9 47 29 18 7 32 13 36 17 47 28 2 22 12 44 34 17 7 39 43 18 42 10 34 2 26  
 16 5 36 25 14 45 34 40 21 44 25 6 29 10 20 3 42 25 8 47 30 9 33 1 25 49 17 41  
 43 32 21 3 41 23 12 48 22 3 33 14 37 18 11 43 33 16 6 38 28 24 48 16 40 8 32 7  
 28 10 48 30 19 1 39 7 30 11 41 15 45 26 2 41 24 14 46 29 19 39 14 31 6 23 47 15  
 6 37 26 8 46 35 17 8 38 19 49 23 4 34 49 32 15 5 37 27 10 5 22 46 21 38 13 30  
 ->20: 49H 51L 5858# ->21: 142H 3L 18653# ->22: 190H 52L 24510# ->23: 141H 192L 22647#  
 9 38 18 47 27 7 29 36 32 28 17 13 2 47 44 22 7 34 12 39 17 42 43 2 10 18 26 34  
 4 33 13 42 15 44 24 27 16 12 1 46 42 31 13 40 18 45 23 1 35 12 20 28 29 37 45 4  
 48 28 1 30 10 39 19 11 7 45 41 30 26 15 24 2 29 14 41 19 46 31 39 47 6 14 15 23  
 36 16 45 25 5 34 14 44 40 29 25 21 10 6 42 20 47 25 3 30 8 1 9 17 25 33 41 49  
 31 11 40 20 49 22 2 35 24 20 9 5 43 39 4 31 9 36 21 48 26 27 35 36 44 3 11 19  
 26 6 35 8 37 17 46 19 8 4 49 38 34 23 15 49 27 5 32 10 37 46 5 13 21 22 30 38  
 21 43 23 3 32 12 41 3 48 37 33 22 18 14 33 11 38 16 43 28 6 16 24 32 40 48 7 8  
 . . .  
 [ 49] 1H 10L 49# -> 1: 191H 40L 24429# -> 2: 121H 12L 14451# -> 3: 189H 155L 26858#  
 1 47 39 31 28 20 9 44 11 27 40 7 15 31 29 23 20 14 3 46 40 48 30 15 5 39 24 14  
 18 10 7 48 37 29 26 28 36 3 16 32 48 12 7 45 39 33 22 16 13 3 42 27 9 43 33 18  
 35 27 16 8 5 46 38 4 20 33 49 8 24 37 26 15 9 6 49 38 32 12 46 31 21 6 37 22  
 44 36 33 25 17 14 6 29 45 9 25 41 5 21 48 42 31 25 19 8 2 16 1 40 25 10 49 34  
 12 4 45 42 34 23 15 13 26 42 1 17 30 46 18 12 1 44 41 35 24 28 13 44 29 19 4 38  
 24 21 13 2 43 40 32 38 2 18 34 47 14 22 37 34 28 17 11 5 43 32 17 7 41 23 8 47  
 41 30 22 19 11 3 49 19 35 43 10 23 39 6 10 4 47 36 30 27 21 36 26 11 45 35 20 2  
 -> 4: 71H 37L 10027# -> 5: 124H 111L 16775# -> 6: 50H 39L 5778# -> 7: 123H 81L 16039#  
 16 35 46 8 27 38 5 33 4 24 49 20 37 8 9 26 38 6 15 32 49 31 12 37 21 46 22 6  
 39 1 20 31 47 9 28 27 44 15 40 11 31 7 20 29 46 14 23 40 3 15 48 24 5 30 14 39  
 13 24 40 2 21 32 43 18 38 14 34 2 22 47 28 37 5 17 34 43 11 7 32 8 41 17 47 23  
 33 44 14 25 36 6 17 9 29 5 25 45 21 41 31 48 8 25 42 2 19 40 16 49 25 1 34 10  
 7 18 29 48 10 26 37 3 28 48 16 36 12 32 39 7 16 33 45 13 22 27 3 33 9 42 18 43  
 22 41 3 19 30 49 11 43 19 39 10 35 6 23 47 10 27 36 4 21 30 11 36 20 45 26 2 35  
 45 12 23 42 4 15 34 42 13 30 1 26 46 17 1 18 35 44 12 24 41 44 28 4 29 13 38 19  
 -> 8: 144H 110L 21023# -> 9: 51H 182L 8948# ->10: 3H 109L 2371# ->11: 52H 9L 5050#  
 40 13 32 2 24 43 21 14 18 22 34 38 47 2 5 28 43 17 37 11 34 8 7 47 41 32 23 17  
 46 16 38 8 35 5 27 24 33 37 49 4 8 20 38 9 32 6 26 49 15 37 31 22 21 12 6 46  
 3 22 49 19 41 11 30 39 43 6 10 19 23 35 27 47 21 36 10 30 4 20 11 2 45 36 35 26  
 14 33 6 25 44 17 36 5 9 21 25 29 41 45 8 31 2 25 48 19 42 49 40 34 25 16 10 1  
 20 39 9 31 1 28 47 15 27 31 40 44 7 11 46 20 40 14 29 3 23 24 15 14 5 48 39 30  
 23 45 15 42 12 34 4 30 42 46 1 13 17 26 35 1 24 44 18 41 12 4 44 38 29 28 19 13  
 29 7 26 48 18 37 10 48 3 12 16 28 32 36 16 39 13 33 7 22 45 33 27 18 9 3 43 42  
 ->12: 192H 183L 27600# ->13: 2H 153L 3220# ->14: 72H 181L 13198# ->15: 4H 38L 791#  
 49 3 11 19 22 30 41 6 39 23 10 43 35 19 21 27 30 36 47 4 10 2 20 35 45 11 26 36  
 32 40 43 2 13 21 24 22 14 47 34 18 2 38 43 5 11 17 28 34 37 47 8 23 41 7 17 32  
 15 23 34 42 45 4 12 46 30 17 1 42 26 13 24 35 41 44 1 12 18 38 4 19 29 44 13 28  
 6 14 17 25 33 36 44 21 5 41 25 9 45 29 2 8 19 25 31 42 48 34 49 10 25 40 1 16  
 38 46 5 8 16 27 35 37 24 8 49 33 20 4 32 38 49 6 9 15 26 22 37 6 21 31 46 12  
 26 29 37 48 7 10 18 12 48 32 16 3 36 28 13 16 22 33 39 45 7 18 33 43 9 27 42 3  
 9 20 28 31 39 47 1 31 15 7 40 27 11 44 40 46 3 14 20 23 29 14 24 39 5 15 30 48  
 ->16: 122H 156L 17622# ->17: 69H 82L 10874# ->18: 143H 154L 21871# ->19: 70H 112L 11610#  
 34 15 4 42 23 12 45 17 46 26 1 30 13 42 41 24 12 44 35 18 1 19 38 13 29 4 28 44  
 11 49 30 19 3 41 22 23 6 35 10 39 19 43 30 21 4 36 27 10 47 35 2 26 45 20 36 11  
 37 26 10 48 29 18 7 32 12 36 16 48 28 3 22 13 45 33 16 7 39 43 18 42 9 33 3 27  
 17 6 36 25 14 44 33 41 21 45 25 5 29 9 19 2 42 25 8 48 31 10 34 1 25 49 16 40  
 43 32 21 2 40 24 13 47 22 2 34 14 38 18 11 43 34 17 5 37 28 23 47 17 41 8 32 7  
 28 9 47 31 20 1 39 7 31 11 40 15 44 27 3 40 23 14 46 29 20 39 14 30 5 24 48 15  
 5 38 27 8 46 35 16 8 37 20 49 24 4 33 49 32 15 6 38 26 9 6 22 46 21 37 12 31  
 ->20: 49H 83L 6626# ->21: 142H 11L 18701# ->22: 190H 84L 25278# ->23: 141H 184L 22599#  
 10 37 18 48 26 7 29 36 32 28 16 12 3 48 45 22 7 33 13 39 16 42 43 3 9 18 27 33  
 4 34 12 42 15 45 23 26 17 13 1 46 42 30 12 41 18 44 24 1 35 13 19 28 29 38 44 4  
 47 28 1 31 9 39 20 11 7 44 40 31 27 15 23 3 29 14 40 20 46 30 39 48 5 14 15 24  
 36 17 44 25 6 33 14 45 41 29 25 21 9 5 42 19 48 25 2 31 8 1 10 16 25 34 40 49  
 30 11 41 19 49 22 3 35 23 19 10 6 43 39 4 30 10 36 21 47 27 26 35 36 45 2 11 20  
 27 5 35 8 38 16 46 20 8 4 49 37 33 24 15 49 26 6 32 9 38 46 6 12 21 22 31 37  
 21 43 24 2 32 13 40 2 47 38 34 22 18 14 34 11 37 17 43 28 5 17 23 32 41 47 7 8

. . . . .  
 [ 97] 1H 18L 97# -> 1: 191H 116L 26049# -> 2: 121H 176L 18303# -> 3: 189H 19L 23739#  
 1 46 42 30 24 19 13 47 8 28 38 6 18 30 35 22 19 9 4 48 38 43 31 18 5 42 27 9  
 17 12 6 43 39 35 23 24 41 4 16 33 43 14 6 45 42 29 26 16 11 4 40 28 13 44 29 17  
 32 28 16 10 5 48 36 2 19 29 49 10 27 39 23 18 13 3 49 36 33 14 48 30 15 3 39 26  
 47 41 29 25 21 9 3 35 45 13 25 37 5 15 43 40 30 25 20 10 7 16 1 38 25 12 49 34  
 14 2 45 40 34 22 18 11 23 40 1 21 31 48 17 14 1 47 37 32 27 24 11 47 35 20 2 36  
 27 15 11 7 44 38 33 36 7 17 34 46 9 26 39 34 24 21 8 5 44 33 21 6 37 22 10 46  
 37 31 26 20 8 4 49 20 32 44 12 22 42 3 12 2 46 41 31 28 15 41 23 8 45 32 19 7  
 -> 4: 71H 35L 10016# -> 5: 124H 20L 14508# -> 6: 50H 159L 8225# -> 7: 123H 33L 15175#  
 16 32 48 10 28 36 5 29 2 27 49 19 39 10 13 23 36 3 18 33 49 30 14 39 15 48 26 3  
 42 1 19 30 46 13 24 28 47 18 38 8 30 6 19 35 48 9 22 38 4 18 43 27 5 31 9 42  
 11 27 38 7 15 33 44 17 36 9 34 7 26 46 24 39 5 21 34 44 8 6 33 10 37 21 46 22  
 29 47 9 25 41 3 21 13 35 5 25 45 15 37 30 43 10 25 40 7 20 38 16 49 25 1 34 12  
 6 17 35 43 12 23 39 4 24 43 16 41 14 33 42 6 16 29 45 11 26 28 4 29 13 40 17 44  
 26 37 4 20 31 49 8 44 20 42 12 32 3 22 46 12 28 41 2 15 31 8 41 19 45 23 7 32  
 45 14 22 40 2 18 34 40 11 31 1 23 48 21 1 17 32 47 14 27 37 47 24 2 35 11 36 20  
 -> 8: 144H 80L 20256# -> 9: 51H 36L 5769# -> 10: 3H 114L 2407# -> 11: 52H 78L 6598#  
 38 11 33 7 27 44 15 9 17 26 34 36 46 7 5 24 44 21 39 8 34 10 6 46 37 33 22 21  
 48 16 36 10 32 5 28 27 29 39 49 2 10 19 36 13 33 3 23 49 18 39 30 26 15 14 3 48  
 4 26 49 20 37 8 31 42 44 3 12 20 22 32 28 46 15 41 12 31 2 19 8 7 45 41 32 23  
 9 29 3 25 47 21 41 5 13 15 25 35 37 45 10 30 7 25 43 20 40 49 38 34 25 16 12 1  
 19 42 13 30 1 24 46 18 28 30 38 47 6 8 48 19 38 9 35 4 22 27 18 9 5 43 42 31  
 22 45 18 40 14 34 2 31 40 48 1 11 21 23 32 1 27 47 17 37 14 2 47 36 35 24 20 11  
 35 6 23 43 17 39 12 43 4 14 16 24 33 41 16 42 11 29 6 26 45 29 28 17 13 4 44 40  
 -> 12: 192H 175L 27552# -> 13: 2H 77L 1600# -> 14: 72H 17L 9346# -> 15: 4H 174L 3910#  
 49 4 8 20 26 31 37 3 42 22 12 44 32 20 15 28 31 41 46 2 12 7 19 32 45 8 23 41  
 33 38 44 7 11 15 27 26 9 46 34 17 7 36 44 5 8 21 24 34 39 46 10 22 37 6 21 33  
 18 22 34 40 45 2 14 48 31 21 1 40 23 11 27 32 37 47 1 14 17 36 2 20 35 47 11 24  
 3 9 21 25 29 41 47 15 5 37 25 13 45 35 7 10 20 25 30 40 43 34 49 12 25 38 1 16  
 36 48 5 10 16 28 32 39 27 10 49 29 19 2 33 36 49 3 13 18 23 26 39 3 15 30 48 14  
 23 35 39 43 6 12 17 14 43 33 16 4 41 24 11 16 26 29 42 45 6 17 29 44 13 28 40 4  
 13 19 24 30 42 46 1 30 18 6 38 28 8 47 38 48 4 9 19 22 35 9 27 42 5 18 31 43  
 -> 16: 122H 158L 17633# -> 17: 69H 173L 13141# -> 18: 143H 34L 19424# -> 19: 70H 160L 12474#  
 34 18 2 40 22 14 45 21 48 23 1 31 11 40 37 27 14 47 32 17 1 20 36 11 35 2 24 47  
 8 49 31 20 4 37 26 22 3 32 12 42 20 44 31 15 2 41 28 12 46 32 7 23 45 19 41 8  
 39 23 12 43 35 17 6 33 14 41 16 43 24 4 26 11 45 29 16 6 42 44 17 40 13 29 4 28  
 21 3 41 25 9 47 29 37 15 45 25 5 35 13 20 7 40 25 10 43 30 12 34 1 25 49 16 38  
 44 33 15 7 38 27 11 46 26 7 34 9 36 17 8 44 34 21 5 39 24 22 46 21 37 10 33 6  
 24 13 46 30 19 1 42 6 30 8 38 18 47 28 4 38 22 9 48 35 19 42 9 31 5 27 43 18  
 5 36 28 10 48 32 16 10 39 19 49 27 2 29 49 33 18 3 36 23 13 3 26 48 15 39 14 30  
 -> 20: 49H 113L 7393# -> 21: 142H 157L 21880# -> 22: 190H 79L 25242# -> 23: 141H 115L 21051#  
 12 39 17 43 23 6 35 41 33 24 16 14 4 43 45 26 6 29 11 42 16 40 44 4 13 17 28 29  
 2 34 14 40 18 45 22 23 21 11 1 48 40 31 14 37 17 47 27 1 32 11 20 24 35 36 47 2  
 46 24 1 30 13 42 19 8 6 47 38 30 28 18 22 4 35 9 38 19 48 31 42 43 5 9 18 27  
 41 21 47 25 3 29 9 45 37 35 25 15 13 5 40 20 43 25 7 30 10 1 12 16 25 34 38 49  
 31 8 37 20 49 26 4 32 22 20 12 3 44 42 2 31 12 41 15 46 28 23 32 41 45 7 8 19  
 28 5 32 10 36 16 48 19 10 2 49 39 29 27 18 49 23 3 33 13 36 48 3 14 15 26 30 39  
 15 44 27 7 33 11 38 7 46 36 34 26 17 9 34 8 39 21 44 24 5 21 22 33 37 46 6 10  
 . . . . .  
 [145] 1H 26L 145# -> 1: 191H 148L 26817# -> 2: 121H 168L 18255# -> 3: 189H 28L 23787#  
 1 46 42 31 23 20 12 48 8 28 37 5 18 31 35 22 20 10 4 47 37 43 30 18 6 42 26 10  
 16 13 5 43 39 35 24 23 40 4 17 34 43 14 5 44 42 29 27 17 11 4 41 28 12 45 29 16  
 32 28 17 9 6 47 36 3 20 29 49 9 26 39 24 18 12 2 49 36 34 14 47 31 15 2 39 27  
 48 40 29 25 21 10 2 35 44 12 25 38 6 15 43 41 31 25 19 9 7 17 1 37 25 13 49 33  
 14 3 44 41 33 22 18 11 24 41 1 21 30 47 16 14 1 48 38 32 26 23 11 48 35 19 3 36  
 26 15 11 7 45 37 34 36 7 16 33 46 10 27 39 33 23 21 8 6 45 34 21 5 38 22 9 46  
 38 30 27 19 8 4 49 19 32 45 13 22 42 2 13 3 46 40 30 28 15 40 24 8 44 32 20 7  
 -> 4: 71H 67L 10784# -> 5: 124H 27L 14556# -> 6: 50H 127L 7457# -> 7: 123H 65L 15943#  
 17 32 47 9 28 36 6 29 3 26 49 20 39 9 12 24 36 2 18 34 49 31 14 39 15 47 27 2  
 42 1 20 31 46 12 23 28 48 18 37 8 31 5 20 35 47 10 22 37 4 18 43 26 6 30 10 42  
 11 26 37 7 15 34 45 16 36 10 33 7 27 46 23 39 6 21 33 45 8 5 34 9 38 21 46 22  
 29 48 10 25 40 2 21 12 35 6 25 44 15 38 31 43 9 25 41 7 19 37 17 49 25 1 33 13  
 5 16 35 43 13 24 39 4 23 43 17 40 14 34 42 5 17 29 44 11 27 28 4 29 12 41 16 45

27 38 4 19 30 49 8	45 19 42 13 32 2 22	46 13 28 40 3 15 30	8 40 20 44 24 7 32
44 14 22 41 3 18 33	41 11 30 1 24 47 21	1 16 32 48 14 26 38	48 23 3 35 11 36 19
-> 8: 144H 48L 19488#	-> 9: 51H 68L 6537#	->10: 3H 147L 3176#	->11: 52H 47L 5831#
37 11 34 7 26 45 15	10 16 27 33 36 46 7	6 23 45 21 39 8 33	9 5 46 38 34 22 21
47 17 36 9 32 6 28	26 29 39 49 3 9 20	36 12 34 2 24 49 18	39 31 27 15 14 2 47
4 27 49 19 38 8 30	42 45 2 13 19 22 32	28 46 15 40 13 30 3	20 8 7 44 40 32 24
10 29 2 25 48 21 40	6 12 15 25 35 38 44	9 31 7 25 43 19 41	49 37 33 25 17 13 1
20 42 12 31 1 23 46	18 28 31 37 48 5 8	47 20 37 10 35 4 22	26 18 10 6 43 42 30
22 44 18 41 14 33 3	30 41 47 1 11 21 24	32 1 26 48 16 38 14	3 48 36 35 23 19 11
35 5 24 43 16 39 13	43 4 14 17 23 34 40	17 42 11 29 5 27 44	29 28 16 12 4 45 41
->12: 192H 167L 27504#	->13: 2H 45L 832#	->14: 72H 25L 9394#	->15: 4H 165L 3862#
49 4 8 19 27 30 38	2 42 22 13 45 32 19	15 28 30 40 46 3 13	7 20 32 44 8 24 40
34 37 45 7 11 15 26	27 10 46 33 16 7 36	45 6 8 21 23 33 39	46 9 22 38 5 21 34
18 22 33 41 44 3 14	47 30 21 1 41 24 11	26 32 38 48 1 14 16	36 3 19 35 48 11 23
2 10 21 25 29 40 48	15 6 38 25 12 44 35	7 9 19 25 31 41 43	33 49 13 25 37 1 17
36 47 6 9 17 28 32	39 26 9 49 29 20 3	34 36 49 2 12 18 24	27 39 2 15 31 47 14
24 35 39 43 5 13 16	14 43 34 17 4 40 23	11 17 27 29 42 44 5	16 29 45 12 28 41 4
12 20 23 31 42 46 1	31 18 5 37 28 8 48	37 47 4 10 20 22 35	10 26 42 6 18 30 43
->16: 122H 126L 16865#	->17: 69H 166L 13093#	->18: 143H 66L 20192#	->19: 70H 128L 11706#
33 18 3 41 22 14 44	21 47 24 1 30 11 41	38 26 14 48 32 16 1	19 36 11 35 3 23 48
8 49 30 19 4 38 27	22 2 32 13 42 19 45	30 15 3 40 28 13 46	32 7 24 44 20 40 8
39 24 13 43 35 16 5	34 14 40 17 43 23 4	27 11 44 29 17 5 42	45 16 41 12 29 4 28
21 2 40 25 10 48 29	38 15 44 25 6 35 12	19 7 41 25 9 43 31	13 33 1 25 49 17 37
45 34 15 7 37 26 11	46 27 7 33 10 36 16	8 45 33 21 6 39 23	22 46 21 38 9 34 5
23 12 46 31 20 1 42	5 31 8 37 18 48 28	4 37 22 10 47 35 20	42 10 30 6 26 43 18
6 36 28 9 47 32 17	9 39 20 49 26 3 29	49 34 18 2 36 24 12	2 27 47 15 39 14 31
->20: 49H 145L 8161#	->21: 142H 125L 21112#	->22: 190H 46L 24473#	->23: 141H 146L 21818#
13 39 16 43 24 5 35	40 34 23 17 14 4 43	44 27 5 29 11 42 17	41 45 4 12 16 28 29
3 33 14 41 18 44 22	24 21 11 1 47 41 30	14 38 16 48 26 1 32	11 19 23 35 36 48 3
46 23 1 31 12 42 20	8 5 48 37 31 28 18	22 4 35 10 37 20 47	30 42 43 6 10 18 26
40 21 48 25 2 29 10	44 38 35 25 15 12 6	41 19 43 25 7 31 9	1 13 17 25 33 37 49
30 8 38 19 49 27 4	32 22 19 13 2 45 42	3 30 13 40 15 46 28	24 32 40 44 7 8 20
28 6 32 9 36 17 47	20 9 3 49 39 29 26	18 49 24 2 34 12 36	47 2 14 15 27 31 39
15 45 26 7 34 11 37	7 46 36 33 27 16 10	33 8 39 21 45 23 6	21 22 34 38 46 5 9
. . . . .			
[193] 9H 2L 193#	-> 1: 183H 72L 25005#	-> 2: 153H 4L 19011#	-> 3: 181H 122L 25898#
1 48 32 37 28 12 17	45 18 26 34 7 8 37	36 24 12 21 2 46 34	47 38 8 6 32 23 21
11 16 7 47 31 36 27	28 29 2 10 39 47 20	7 44 32 41 22 10 19	2 35 26 17 43 41 11
42 26 10 15 6 46 30	4 12 41 49 15 23 31	27 8 17 5 49 30 39	20 46 37 14 5 31 22
45 29 41 25 9 21 5	36 44 17 25 33 6 14	47 35 37 25 13 15 3	10 1 34 25 16 49 40
20 4 44 35 40 24 8	19 27 35 1 9 38 46	11 20 1 45 33 42 23	28 19 45 36 13 4 30
23 14 19 3 43 34 39	30 3 11 40 48 21 22	31 40 28 9 18 6 43	39 9 7 33 24 15 48
33 38 22 13 18 2 49	13 42 43 16 24 32 5	16 4 48 29 38 26 14	29 27 18 44 42 12 3
-> 4: 38H 69L 6184#	-> 5: 156H 143L 22151#	-> 6: 82H 70L 11153#	-> 7: 154H 49L 19876#
10 42 46 15 26 30 6	41 4 23 49 12 31 15	17 27 30 5 8 39 49	37 20 31 14 46 22 5
32 1 12 37 48 17 28	26 45 8 34 18 37 7	12 36 46 21 24 34 2	8 47 23 6 38 21 32
19 23 34 3 14 39 43	11 30 21 40 3 22 48	28 31 6 9 40 43 18	7 39 15 33 9 48 24
41 45 21 25 29 5 9	17 36 6 25 44 14 33	37 47 15 25 35 3 13	34 10 49 25 1 40 16
7 11 36 47 16 27 31	2 28 47 10 29 20 39	32 7 10 41 44 19 22	26 2 41 17 35 11 43
22 33 2 13 38 49 18	43 13 32 16 42 5 24	48 16 26 29 4 14 38	18 29 12 44 27 3 42
44 20 24 35 4 8 40	35 19 38 1 27 46 9	1 11 42 45 20 23 33	45 28 4 36 19 30 13
-> 8: 112H 142L 17183#	-> 9: 83H 190L 13604#	->10: 11H 141L 3331#	->11: 84H 1L 9610#
34 19 39 3 23 43 14	21 11 22 40 30 48 3	6 28 43 9 31 18 40	15 7 48 33 39 24 9
46 10 30 15 42 6 26	23 41 31 49 4 15 12	30 17 39 5 27 49 8	31 37 22 14 20 5 46
2 22 49 13 33 18 38	32 43 5 16 13 24 42	26 48 14 29 16 38 4	12 18 3 44 29 42 27
21 41 5 25 45 9 29	6 17 14 25 36 33 44	15 37 3 25 47 13 35	49 34 40 25 10 16 1
12 32 17 37 1 28 48	8 26 37 34 45 7 18	46 12 34 21 36 2 24	23 8 21 6 47 32 38
24 44 8 35 20 40 4	38 35 46 1 19 9 27	42 1 23 45 11 33 20	4 45 30 36 28 13 19
36 7 27 47 11 31 16	47 2 20 10 28 39 29	10 32 19 41 7 22 44	41 26 11 17 2 43 35
->12: 184H 191L 27456#	->13: 10H 121L 2644#	->14: 40H 189L 8638#	->15: 12H 71L 1751#
49 2 18 13 22 38 33	5 32 24 16 43 42 13	14 26 38 29 48 4 16	3 12 42 44 18 27 29
39 34 43 3 19 14 23	22 21 48 40 11 3 30	43 6 18 9 28 40 31	48 15 24 33 7 9 39
8 24 40 35 44 4 20	46 38 9 1 35 27 19	23 42 33 45 1 20 11	30 4 13 36 45 19 28
5 21 9 25 41 29 45	14 6 33 25 17 44 36	3 15 13 25 37 35 47	40 49 16 25 34 1 10

30 46 6 15 10 26 42	31 23 15 49 41 12 4	39 30 49 5 17 8 27	22 31 5 14 37 46 20
27 36 31 47 7 16 11	20 47 39 10 2 29 28	19 10 22 41 32 44 7	11 41 43 17 26 35 2
17 12 28 37 32 48 1	37 8 7 34 26 18 45	34 46 2 21 12 24 36	21 23 32 6 8 38 47
->16: 155H 124L 21465#	->17: 37H 50L 5498#	->18: 111H 123L 16496#	->19: 39H 144L 7773#
40 8 4 35 24 20 44	9 46 27 1 38 19 35	33 23 20 45 42 11 1	13 30 19 36 4 28 45
18 49 38 13 2 33 22	24 5 42 16 32 13 43	38 14 4 29 26 16 48	42 3 27 44 12 29 18
31 27 16 47 36 11 7	39 20 29 10 47 28 2	22 19 44 41 10 7 32	43 11 35 17 41 2 26
9 5 29 25 21 45 41	33 14 44 25 6 36 17	13 3 35 25 15 47 37	16 40 1 25 49 10 34
43 39 14 3 34 23 19	48 22 3 40 21 30 11	18 43 40 9 6 31 28	24 48 9 33 15 39 7
28 17 48 37 12 1 32	7 37 18 34 8 45 26	2 34 24 21 46 36 12	32 21 38 6 23 47 8
6 30 26 15 46 42 10	15 31 12 49 23 4 41	49 39 8 5 30 27 17	5 22 46 14 31 20 37
->20: 81H 51L 10466#	->21: 110H 3L 14045#	->22: 182H 52L 24318#	->23: 109H 192L 18039#
16 31 11 47 27 7 36	29 39 28 10 20 2 47	44 22 7 41 19 32 10	35 43 2 17 11 26 41
4 40 20 35 8 44 24	27 9 19 1 46 35 38	20 33 11 45 23 1 42	19 13 28 36 30 45 4
48 28 1 37 17 32 12	18 7 45 34 37 26 8	24 2 36 21 34 12 46	38 32 47 6 21 8 23
29 9 45 25 5 41 21	44 33 36 25 14 17 6	35 13 47 25 3 37 15	1 16 10 25 40 34 49
38 18 33 13 49 22 2	42 24 13 16 5 43 32	4 38 16 29 14 48 26	27 42 29 44 3 18 12
26 6 42 15 30 10 46	12 15 4 49 31 41 23	8 49 27 5 39 17 30	46 5 20 14 22 37 31
14 43 23 3 39 19 34	3 48 30 40 22 11 21	40 18 31 9 43 28 6	9 24 39 33 48 7 15
. . . . .			
[241] 9H 10L 241#	-> 1: 183H 40L 24237#	-> 2: 153H 12L 19059#	-> 3: 181H 155L 26666#
1 47 32 38 28 13 16	44 18 27 33 7 8 38	36 23 13 21 3 46 33	48 37 8 5 32 24 21
11 17 7 48 30 36 26	28 29 3 9 39 48 19	7 45 32 40 22 9 20	3 35 27 16 43 40 11
42 27 9 15 5 46 31	4 13 40 49 15 24 30	26 8 16 6 49 31 39	19 46 38 14 6 30 22
44 29 40 25 10 21 6	36 45 16 25 34 5 14	48 35 38 25 12 15 2	9 1 33 25 17 49 41
19 4 45 35 41 23 8	20 26 35 1 10 37 46	11 19 1 44 34 42 24	28 20 44 36 12 4 31
24 14 20 2 43 33 39	31 2 11 41 47 21 22	30 41 28 10 18 5 43	39 10 7 34 23 15 47
34 37 22 12 18 3 49	12 42 43 17 23 32 6	17 4 47 29 37 27 14	29 26 18 45 42 13 2
-> 4: 38H 37L 5416#	-> 5: 156H 111L 21383#	-> 6: 82H 39L 10386#	-> 7: 154H 81L 20644#
9 42 46 15 27 31 5	40 4 24 49 13 30 15	16 26 31 6 8 39 49	38 19 30 14 46 22 6
32 1 13 38 47 16 28	27 44 8 33 18 38 7	13 36 46 21 23 33 3	8 48 24 5 37 21 32
20 24 33 2 14 39 43	11 31 21 41 2 22 47	28 30 5 10 41 43 18	7 39 15 34 10 47 23
40 44 21 25 29 6 10	16 36 5 25 45 14 34	38 48 15 25 35 2 12	33 9 49 25 1 41 17
7 11 36 48 17 26 30	3 28 48 9 29 19 39	32 7 9 40 45 20 22	27 3 40 16 35 11 43
22 34 3 12 37 49 18	43 12 32 17 42 6 23	47 17 27 29 4 14 37	18 29 13 45 26 2 42
45 19 23 35 4 8 41	35 20 37 1 26 46 10	1 11 42 44 19 24 34	44 28 4 36 20 31 12
-> 8: 112H 110L 16415#	-> 9: 83H 182L 13556#	->10: 11H 109L 2563#	->11: 84H 9L 9658#
33 20 39 2 24 43 14	21 11 22 41 31 47 2	5 28 43 10 30 18 41	15 7 47 34 39 23 10
46 9 31 15 42 5 27	24 40 30 49 4 15 13	31 16 39 6 26 49 8	30 38 22 14 19 6 46
3 22 49 12 34 18 37	32 43 6 17 12 23 42	27 47 14 29 17 37 4	13 18 2 45 29 42 26
21 40 6 25 44 10 29	5 16 14 25 36 34 45	15 38 2 25 48 12 35	49 33 41 25 9 17 1
13 32 16 38 1 28 47	8 27 38 33 44 7 18	46 13 33 21 36 3 23	24 8 21 5 48 32 37
23 45 8 35 19 41 4	37 35 46 1 20 10 26	42 1 24 44 11 34 19	4 44 31 36 28 12 20
36 7 26 48 11 30 17	48 3 19 9 28 39 29	9 32 20 40 7 22 45	40 27 11 16 3 43 35
->12: 184H 183L 27408#	->13: 10H 153L 3412#	->14: 40H 181L 8590#	->15: 12H 38L 983#
49 3 18 12 22 37 34	6 32 23 17 43 42 12	14 27 37 29 47 4 17	2 13 42 45 18 26 29
39 33 43 2 20 14 24	22 21 47 41 11 2 31	43 5 18 10 28 41 30	47 15 23 34 7 10 39
8 23 41 35 45 4 19	46 37 10 1 35 26 20	24 42 34 44 1 19 11	31 4 12 36 44 20 28
6 21 10 25 40 29 44	14 5 34 25 16 45 36	2 15 12 25 38 35 48	41 49 17 25 33 1 9
31 46 5 15 9 27 42	30 24 15 49 40 13 4	39 31 49 6 16 8 26	22 30 6 14 38 46 19
26 36 30 48 7 17 11	19 48 39 9 3 29 28	20 9 22 40 32 45 7	11 40 43 16 27 35 3
16 13 28 38 32 47 1	38 8 7 33 27 18 44	33 46 3 21 13 23 36	21 24 32 5 8 37 48
->16: 155H 156L 22233#	->17: 37H 82L 6266#	->18: 111H 154L 17263#	->19: 39H 112L 7005#
41 8 4 35 23 19 45	10 46 26 1 37 20 35	34 24 19 44 42 11 1	12 31 20 36 4 28 44
18 49 37 12 3 34 22	23 6 42 17 32 12 43	37 14 4 29 27 17 47	42 2 26 45 13 29 18
30 26 17 48 36 11 7	39 19 29 9 48 28 3	22 20 45 40 9 7 32	43 11 35 16 40 3 27
10 6 29 25 21 44 40	34 14 45 25 5 36 16	12 2 35 25 15 48 38	17 41 1 25 49 9 33
43 39 14 2 33 24 20	47 22 2 41 21 31 11	18 43 41 10 5 30 28	23 47 10 34 15 39 7
28 16 47 38 13 1 32	7 38 18 33 8 44 27	3 33 23 21 46 36 13	32 21 37 5 24 48 8
5 31 27 15 46 42 9	15 30 13 49 24 4 40	49 39 8 6 31 26 16	6 22 46 14 30 19 38
->20: 81H 83L 11234#	->21: 110H 11L 14093#	->22: 182H 84L 25086#	->23: 109H 184L 17991#
17 30 11 48 26 7 36	29 39 28 9 19 3 48	45 22 7 40 20 32 9	35 43 3 16 11 27 40
4 41 19 35 8 45 23	26 10 20 1 46 35 37	19 34 11 44 24 1 42	20 12 28 36 31 44 4
47 28 1 38 16 32 13	18 7 44 33 38 27 8	23 3 36 21 33 13 46	37 32 48 5 21 8 24

29 10 44 25 6 40 21 45 34 36 25 14 16 5 35 12 48 25 2 38 15 1 17 9 25 41 33 49  
37 18 34 12 49 22 3 42 23 12 17 6 43 32 4 37 17 29 14 47 27 26 42 29 45 2 18 13  
27 5 42 15 31 9 46 13 15 4 49 30 40 24 8 49 26 6 39 16 31 46 6 19 14 22 38 30  
14 43 24 2 39 20 33 2 47 31 41 22 11 21 41 18 30 10 43 28 5 10 23 39 34 47 7 15

[289] 9H 18L 289# -> 1: 183H 116L 25857# -> 2: 153H 176L 22911# -> 3: 181H 19L 23547#

1 46 35 37 24 12 20 47 15 28 31 6 11 37 42 22 12 16 4 48 31 43 38 11 5 35 27 16  
10 19 6 43 32 42 23 24 34 4 9 40 43 21 6 45 35 36 26 9 18 4 33 28 20 44 36 10  
39 28 9 17 5 48 29 2 12 36 49 17 27 32 23 11 20 3 49 29 40 21 48 37 8 3 32 26  
47 34 36 25 14 16 3 42 45 20 25 30 5 8 43 33 37 25 13 17 7 9 1 31 25 19 49 41  
21 2 45 33 41 22 11 18 23 33 1 14 38 48 10 21 1 47 30 39 27 24 18 47 42 13 2 29  
27 8 18 7 44 31 40 29 7 10 41 46 16 26 32 41 24 14 15 5 44 40 14 6 30 22 17 46  
30 38 26 13 15 4 49 13 39 44 19 22 35 3 19 2 46 34 38 28 8 34 23 15 45 39 12 7

-> 4: 38H 35L 5405# -> 5: 156H 20L 19116# -> 6: 82H 159L 12833# -> 7: 154H 33L 19780#

9 39 48 17 28 29 5 36 2 27 49 12 32 17 20 23 29 3 11 40 49 37 21 32 8 48 26 3  
35 1 12 37 46 20 24 28 47 11 31 15 37 6 12 42 48 16 22 31 4 11 43 27 5 38 16 35  
18 27 31 7 8 40 44 10 29 16 41 7 26 46 24 32 5 14 41 44 15 6 40 17 30 14 46 22  
36 47 16 25 34 3 14 20 42 5 25 45 8 30 37 43 17 25 33 7 13 31 9 49 25 1 41 19  
6 10 42 43 19 23 32 4 24 43 9 34 21 40 35 6 9 36 45 18 26 28 4 36 20 33 10 44  
26 30 4 13 38 49 15 44 13 35 19 39 3 22 46 19 28 34 2 8 38 15 34 12 45 23 7 39  
45 21 22 33 2 11 41 33 18 38 1 23 48 14 1 10 39 47 21 27 30 47 24 2 42 18 29 13

[337] 9H 26L 337# -> 1: 183H 148L 26625# -> 2: 153H 168L 22863# -> 3: 181H 28L 23595#

1 46 35 38 23 13 19 48 15 28 30 5 11 38 42 22 13 17 4 47 30 43 37 11 6 35 26 17  
9 20 5 43 32 42 24 23 33 4 10 41 43 21 5 44 35 36 27 10 18 4 34 28 19 45 36 9  
39 28 10 16 6 47 29 3 13 36 49 16 26 32 24 11 19 2 49 29 41 21 47 38 8 2 32 27  
48 33 36 25 14 17 2 42 44 19 25 31 6 8 43 34 38 25 12 16 7 10 1 30 25 20 49 40  
21 3 44 34 40 22 11 18 24 34 1 14 37 47 9 21 1 48 31 39 26 23 18 48 42 12 3 29  
26 8 18 7 45 30 41 29 7 9 40 46 17 27 32 40 23 14 15 6 45 41 14 5 31 22 16 46  
31 37 27 12 15 4 49 12 39 45 20 22 35 2 20 3 46 33 37 28 8 33 24 15 44 39 13 7

-> 4: 38H 67L 6173# -> 5: 156H 27L 19164# -> 6: 82H 127L 12065# -> 7: 154H 65L 20548#

10 39 47 16 28 29 6 36 3 26 49 13 32 16 19 24 29 2 11 41 49 38 21 32 8 47 27 2  
35 1 13 38 46 19 23 28 48 11 30 15 38 5 13 42 47 17 22 30 4 11 43 26 6 37 17 35  
18 26 30 7 8 41 45 9 29 17 40 7 27 46 23 32 6 14 40 45 15 5 41 16 31 14 46 22  
36 48 17 25 33 2 14 19 42 6 25 44 8 31 38 43 16 25 34 7 12 30 10 49 25 1 40 20  
5 9 42 43 20 24 32 4 23 43 10 33 21 41 35 5 10 36 44 18 27 28 4 36 19 34 9 45  
27 31 4 12 37 49 15 45 12 35 20 39 2 22 46 20 28 33 3 8 37 15 33 13 44 24 7 39  
44 21 22 34 3 11 40 34 18 37 1 24 47 14 1 9 39 48 21 26 31 48 23 3 42 18 29 12

[385] 17H 2L 385# -> 1: 174H 72L 24810# -> 2: 158H 4L 19038# -> 3: 173H 122L 25706#

1 48 18 37 28 12 31 45 32 26 20 7 8 37 36 24 12 35 2 46 20 47 38 8 6 18 23 35  
11 30 7 47 17 36 27 28 15 2 10 39 47 34 7 44 18 41 22 10 33 2 21 26 31 43 41 11  
42 26 10 29 6 46 16 4 12 41 49 29 23 17 27 8 31 5 49 16 39 34 46 37 14 5 17 22  
45 15 41 25 9 35 5 36 44 31 25 19 6 14 47 21 37 25 13 29 3 10 1 20 25 30 49 40  
34 4 44 21 40 24 8 33 27 21 1 9 38 46 11 34 1 45 19 42 23 28 33 45 36 13 4 16  
23 14 33 3 43 20 39 16 3 11 40 48 35 22 17 40 28 9 32 6 43 39 9 7 19 24 29 48  
19 38 22 13 32 2 49 13 42 43 30 24 18 5 30 4 48 15 38 26 14 15 27 32 44 42 12 3

-> 4: 34H 69L 6160# -> 5: 160H 143L 22175# -> 6: 113H 70L 15758# -> 7: 157H 49L 19897#

10 42 46 29 26 16 6 41 4 23 49 12 17 29 31 27 16 5 8 39 49 37 34 17 14 46 22 5  
18 1 12 37 48 31 28 26 45 8 20 32 37 7 12 36 46 35 24 20 2 8 47 23 6 38 35 18  
33 23 20 3 14 39 43 11 16 35 40 3 22 48 28 17 6 9 40 43 32 7 39 29 19 9 48 24  
41 45 35 25 15 5 9 31 36 6 25 44 14 19 37 47 29 25 21 3 13 20 10 49 25 1 40 30  
7 11 36 47 30 27 17 2 28 47 10 15 34 39 18 7 10 41 44 33 22 26 2 41 31 21 11 43  
22 19 2 13 38 49 32 43 13 18 30 42 5 24 48 30 26 15 4 14 38 32 15 12 44 27 3 42  
44 34 24 21 4 8 40 21 33 38 1 27 46 9 1 11 42 45 34 23 19 45 28 4 36 33 16 13

[433] 17H 10L 433# -> 1: 174H 40L 24042# -> 2: 158H 12L 19086# -> 3: 173H 155L 26474#

1 47 18 38 28 13 30 44 32 27 19 7 8 38 36 23 13 35 3 46 19 48 37 8 5 18 24 35  
11 31 7 48 16 36 26 28 15 3 9 39 48 33 7 45 18 40 22 9 34 3 21 27 30 43 40 11  
42 27 9 29 5 46 17 4 13 40 49 29 24 16 26 8 30 6 49 17 39 33 46 38 14 6 16 22  
44 15 40 25 10 35 6 36 45 30 25 20 5 14 48 21 38 25 12 29 2 9 1 19 25 31 49 41  
33 4 45 21 41 23 8 34 26 21 1 10 37 46 11 33 1 44 20 42 24 28 34 44 36 12 4 17  
24 14 34 2 43 19 39 17 2 11 41 47 35 22 16 41 28 10 32 5 43 39 10 7 20 23 29 47  
20 37 22 12 32 3 49 12 42 43 31 23 18 6 31 4 47 15 37 27 14 15 26 32 45 42 13 2

-> 4: 34H 37L 5392# -> 5: 160H 111L 21407# -> 6: 113H 39L 14991# -> 7: 157H 81L 20665#  
9 42 46 29 27 17 5 40 4 24 49 13 16 29 30 26 17 6 8 39 49 38 33 16 14 46 22 6  
18 1 13 38 47 30 28 27 44 8 19 32 38 7 13 36 46 35 23 19 3 8 48 24 5 37 35 18  
34 24 19 2 14 39 43 11 17 35 41 2 22 47 28 16 5 10 41 43 32 7 39 29 20 10 47 23  
40 44 35 25 15 6 10 30 36 5 25 45 14 20 38 48 29 25 21 2 12 19 9 49 25 1 41 31  
7 11 36 48 31 26 16 3 28 48 9 15 33 39 18 7 9 40 45 34 22 27 3 40 30 21 11 43  
22 20 3 12 37 49 32 43 12 18 31 42 6 23 47 31 27 15 4 14 37 32 15 13 45 26 2 42  
45 33 23 21 4 8 41 21 34 37 1 26 46 10 1 11 42 44 33 24 20 44 28 4 36 34 17 12

[481] 17H 18L 481# -> 1: 174H 116L 25662# -> 2: 158H 176L 22938# -> 3: 173H 19L 23355#  
1 46 21 37 24 12 34 47 29 28 17 6 11 37 42 22 12 30 4 48 17 43 38 11 5 21 27 30  
10 33 6 43 18 42 23 24 20 4 9 40 43 35 6 45 21 36 26 9 32 4 19 28 34 44 36 10  
39 28 9 31 5 48 15 2 12 36 49 31 27 18 23 11 34 3 49 15 40 35 48 37 8 3 18 26  
47 20 36 25 14 30 3 42 45 34 25 16 5 8 43 19 37 25 13 31 7 9 1 17 25 33 49 41  
35 2 45 19 41 22 11 32 23 19 1 14 38 48 10 35 1 47 16 39 27 24 32 47 42 13 2 15  
27 8 32 7 44 17 40 15 7 10 41 46 30 26 18 41 24 14 29 5 44 40 14 6 16 22 31 46  
16 38 26 13 29 4 49 13 39 44 33 22 21 3 33 2 46 20 38 28 8 20 23 29 45 39 12 7

-> 4: 34H 35L 5381# -> 5: 160H 20L 19140# -> 6: 113H 159L 17438# -> 7: 157H 33L 19801#  
9 39 48 31 28 15 5 36 2 27 49 12 18 31 34 23 15 3 11 40 49 37 35 18 8 48 26 3  
21 1 12 37 46 34 24 28 47 11 17 29 37 6 12 42 48 30 22 17 4 11 43 27 5 38 30 21  
32 27 17 7 8 40 44 10 15 30 41 7 26 46 24 18 5 14 41 44 29 6 40 31 16 14 46 22  
36 47 30 25 20 3 14 34 42 5 25 45 8 16 37 43 31 25 19 7 13 17 9 49 25 1 41 33  
6 10 42 43 33 23 18 4 24 43 9 20 35 40 21 6 9 36 45 32 26 28 4 36 34 19 10 44  
26 16 4 13 38 49 29 44 13 21 33 39 3 22 46 33 28 20 2 8 38 29 20 12 45 23 7 39  
45 35 22 19 2 11 41 19 32 38 1 23 48 14 1 10 39 47 35 27 16 47 24 2 42 32 15 13

[529] 17H 26L 529# -> 1: 174H 148L 26430# -> 2: 158H 168L 22890# -> 3: 173H 28L 23403#  
1 46 21 38 23 13 33 48 29 28 16 5 11 38 42 22 13 31 4 47 16 43 37 11 6 21 26 31  
9 34 5 43 18 42 24 23 19 4 10 41 43 35 5 44 21 36 27 10 32 4 20 28 33 45 36 9  
39 28 10 30 6 47 15 3 13 36 49 30 26 18 24 11 33 2 49 15 41 35 47 38 8 2 18 27  
48 19 36 25 14 31 2 42 44 33 25 17 6 8 43 20 38 25 12 30 7 10 1 16 25 34 49 40  
35 3 44 20 40 22 11 32 24 20 1 14 37 47 9 35 1 48 17 39 26 23 32 48 42 12 3 15  
26 8 32 7 45 16 41 15 7 9 40 46 31 27 18 40 23 14 29 6 45 41 14 5 17 22 30 46  
17 37 27 12 29 4 49 12 39 45 34 22 21 2 34 3 46 19 37 28 8 19 24 29 44 39 13 7

-> 4: 34H 67L 6149# -> 5: 160H 27L 19188# -> 6: 113H 127L 16670# -> 7: 157H 65L 20569#  
10 39 47 30 28 15 6 36 3 26 49 13 18 30 33 24 15 2 11 41 49 38 35 18 8 47 27 2  
21 1 13 38 46 33 23 28 48 11 16 29 38 5 13 42 47 31 22 16 4 11 43 26 6 37 31 21  
32 26 16 7 8 41 45 9 15 31 40 7 27 46 23 18 6 14 40 45 29 5 41 30 17 14 46 22  
36 48 31 25 19 2 14 33 42 6 25 44 8 17 38 43 30 25 20 7 12 16 10 49 25 1 40 34  
5 9 42 43 34 24 18 4 23 43 10 19 35 41 21 5 10 36 44 32 27 28 4 36 33 20 9 45  
27 17 4 12 37 49 29 45 12 21 34 39 2 22 46 34 28 19 3 8 37 29 19 13 44 24 7 39  
44 35 22 20 3 11 40 20 32 37 1 24 47 14 1 9 39 48 35 26 17 48 23 3 42 32 15 12

[577] 25H 2L 577# -> 1: 165H 72L 24615# -> 2: 126H 4L 14430# -> 3: 166H 122L 25517#  
1 48 11 30 28 19 38 45 39 26 13 7 15 30 29 24 19 42 2 46 13 47 31 15 6 11 23 42  
18 37 7 47 10 29 27 28 8 2 17 32 47 41 7 44 11 34 22 17 40 2 14 26 38 43 34 18  
35 26 17 36 6 46 9 4 19 34 49 36 23 10 27 15 38 5 49 9 32 41 46 30 21 5 10 22  
45 8 34 25 16 42 5 29 44 38 25 12 6 21 47 14 30 25 20 36 3 17 1 13 25 37 49 33  
41 4 44 14 33 24 15 40 27 14 1 16 31 46 18 41 1 45 12 35 23 28 40 45 29 20 4 9  
23 21 40 3 43 13 32 9 3 18 33 48 42 22 10 33 28 16 39 6 43 32 16 7 12 24 36 48  
12 31 22 20 39 2 49 20 35 43 37 24 11 5 37 4 48 8 31 26 21 8 27 39 44 35 19 3

-> 4: 66H 69L 10768# -> 5: 128H 143L 17567# -> 6: 145H 70L 20366# -> 7: 125H 49L 15289#  
17 35 46 36 26 9 6 34 4 23 49 19 10 36 38 27 9 5 15 32 49 30 41 10 21 46 22 5  
11 1 19 30 48 38 28 26 45 15 13 39 30 7 19 29 46 42 24 13 2 15 47 23 6 31 42 11  
40 23 13 3 21 32 43 18 9 42 33 3 22 48 28 10 6 16 33 43 39 7 32 36 12 16 48 24  
34 45 42 25 8 5 16 38 29 6 25 44 21 12 30 47 36 25 14 3 20 13 17 49 25 1 33 37  
7 18 29 47 37 27 10 2 28 47 17 8 41 32 11 7 17 34 44 40 22 26 2 34 38 14 18 43  
22 12 2 20 31 49 39 43 20 11 37 35 5 24 48 37 26 8 4 21 31 39 8 19 44 27 3 35  
44 41 24 14 4 15 33 14 40 31 1 27 46 16 1 18 35 45 41 23 12 45 28 4 29 40 9 20

[625] 25H 10L 625# -> 1: 165H 40L 23847# -> 2: 126H 12L 14478# -> 3: 166H 155L 26285#  
1 47 11 31 28 20 37 44 39 27 12 7 15 31 29 23 20 42 3 46 12 48 30 15 5 11 24 42  
18 38 7 48 9 29 26 28 8 3 16 32 48 40 7 45 11 33 22 16 41 3 14 27 37 43 33 18  
35 27 16 36 5 46 10 4 20 33 49 36 24 9 26 15 37 6 49 10 32 40 46 31 21 6 9 22

44 8 33 25 17 42 6 29 45 37 25 13 5 21 48 14 31 25 19 36 2 16 1 12 25 38 49 34  
40 4 45 14 34 23 15 41 26 14 1 17 30 46 18 40 1 44 13 35 24 28 41 44 29 19 4 10  
24 21 41 2 43 12 32 10 2 18 34 47 42 22 9 34 28 17 39 5 43 32 17 7 13 23 36 47  
13 30 22 19 39 3 49 19 35 43 38 23 11 6 38 4 47 8 30 27 21 8 26 39 45 35 20 2

-> 4: 66H 37L 10000# -> 5: 128H 111L 16799# -> 6: 145H 39L 19599# -> 7: 125H 81L 16057#  
16 35 46 36 27 10 5 33 4 24 49 20 9 36 37 26 10 6 15 32 49 31 40 9 21 46 22 6  
11 1 20 31 47 37 28 27 44 15 12 39 31 7 20 29 46 42 23 12 3 15 48 24 5 30 42 11  
41 24 12 2 21 32 43 18 10 42 34 2 22 47 28 9 5 17 34 43 39 7 32 36 13 17 47 23  
33 44 42 25 8 6 17 37 29 5 25 45 21 13 31 48 36 25 14 2 19 12 16 49 25 1 34 38  
7 18 29 48 38 26 9 3 28 48 16 8 40 32 11 7 16 33 45 41 22 27 3 33 37 14 18 43  
22 13 3 19 30 49 39 43 19 11 38 35 6 23 47 38 27 8 4 21 30 39 8 20 45 26 2 35  
45 40 23 14 4 15 34 14 41 30 1 26 46 17 1 18 35 44 40 24 13 44 28 4 29 41 10 19

[673] 25H 18L 673# -> 1: 165H 116L 25467# -> 2: 126H 176L 18330# -> 3: 166H 19L 23166#  
1 46 14 30 24 19 41 47 36 28 10 6 18 30 35 22 19 37 4 48 10 43 31 18 5 14 27 37  
17 40 6 43 11 35 23 24 13 4 16 33 43 42 6 45 14 29 26 16 39 4 12 28 41 44 29 17  
32 28 16 38 5 48 8 2 19 29 49 38 27 11 23 18 41 3 49 8 33 42 48 30 15 3 11 26  
47 13 29 25 21 37 3 35 45 41 25 9 5 15 43 12 30 25 20 38 7 16 1 10 25 40 49 34  
42 2 45 12 34 22 18 39 23 12 1 21 31 48 17 42 1 47 9 32 27 24 39 47 35 20 2 8  
27 15 39 7 44 10 33 8 7 17 34 46 37 26 11 34 24 21 36 5 44 33 21 6 9 22 38 46  
9 31 26 20 36 4 49 20 32 44 40 22 14 3 40 2 46 13 31 28 15 13 23 36 45 32 19 7

-> 4: 66H 35L 9989# -> 5: 128H 20L 14532# -> 6: 145H 159L 22046# -> 7: 125H 33L 15193#  
16 32 48 38 28 8 5 29 2 27 49 19 11 38 41 23 8 3 18 33 49 30 42 11 15 48 26 3  
14 1 19 30 46 41 24 28 47 18 10 36 30 6 19 35 48 37 22 10 4 18 43 27 5 31 37 14  
39 27 10 7 15 33 44 17 8 37 34 7 26 46 24 11 5 21 34 44 36 6 33 38 9 21 46 22  
29 47 37 25 13 3 21 41 35 5 25 45 15 9 30 43 38 25 12 7 20 10 16 49 25 1 34 40  
6 17 35 43 40 23 11 4 24 43 16 13 42 33 14 6 16 29 45 39 26 28 4 29 41 12 17 44  
26 9 4 20 31 49 36 44 20 14 40 32 3 22 46 40 28 13 2 15 31 36 13 19 45 23 7 32  
45 42 22 12 2 18 34 12 39 31 1 23 48 21 1 17 32 47 42 27 9 47 24 2 35 39 8 20

[721] 25H 26L 721# -> 1: 165H 148L 26235# -> 2: 126H 168L 18282# -> 3: 166H 28L 23214#  
1 46 14 31 23 20 40 48 36 28 9 5 18 31 35 22 20 38 4 47 9 43 30 18 6 14 26 38  
16 41 5 43 11 35 24 23 12 4 17 34 43 42 5 44 14 29 27 17 39 4 13 28 40 45 29 16  
32 28 17 37 6 47 8 3 20 29 49 37 26 11 24 18 40 2 49 8 34 42 47 31 15 2 11 27  
48 12 29 25 21 38 2 35 44 40 25 10 6 15 43 13 31 25 19 37 7 17 1 9 25 41 49 33  
42 3 44 13 33 22 18 39 24 13 1 21 30 47 16 42 1 48 10 32 26 23 39 48 35 19 3 8  
26 15 39 7 45 9 34 8 7 16 33 46 38 27 11 33 23 21 36 6 45 34 21 5 10 22 37 46  
10 30 27 19 36 4 49 19 32 45 41 22 14 2 41 3 46 12 30 28 15 12 24 36 44 32 20 7

-> 4: 66H 67L 10757# -> 5: 128H 27L 14580# -> 6: 145H 127L 21278# -> 7: 125H 65L 15961#  
17 32 47 37 28 8 6 29 3 26 49 20 11 37 40 24 8 2 18 34 49 31 42 11 15 47 27 2  
14 1 20 31 46 40 23 28 48 18 9 36 31 5 20 35 47 38 22 9 4 18 43 26 6 30 38 14  
39 26 9 7 15 34 45 16 8 38 33 7 27 46 23 11 6 21 33 45 36 5 34 37 10 21 46 22  
29 48 38 25 12 2 21 40 35 6 25 44 15 10 31 43 37 25 13 7 19 9 17 49 25 1 33 41  
5 16 35 43 41 24 11 4 23 43 17 12 42 34 14 5 17 29 44 39 27 28 4 29 40 13 16 45  
27 10 4 19 30 49 36 45 19 14 41 32 2 22 46 41 28 12 3 15 30 36 12 20 44 24 7 32  
44 42 22 13 3 18 33 13 39 30 1 24 47 21 1 16 32 48 42 26 10 48 23 3 35 39 8 19

[769] 1H 33L 769# -> 1: 191H 80L 25245# -> 2: 121H 36L 15171# -> 3: 189H 114L 26042#  
2 49 39 29 27 19 10 45 11 26 42 6 16 29 30 24 19 13 1 46 42 47 31 16 7 39 22 13  
18 8 6 47 38 30 28 27 37 1 17 32 47 14 6 43 39 35 23 17 12 1 41 26 10 44 35 18  
34 26 17 9 7 46 36 4 19 35 48 9 22 38 28 16 10 5 48 36 32 14 46 29 20 5 38 23  
45 37 35 25 15 13 5 30 43 10 25 40 7 20 47 41 29 25 21 9 3 17 2 42 25 8 48 33  
14 4 43 41 33 24 16 12 28 41 2 15 31 46 18 14 2 45 40 34 22 27 12 45 30 21 4 36  
22 20 12 3 44 42 32 36 3 18 33 49 13 23 38 33 27 15 11 7 44 32 15 6 40 24 9 49  
40 31 23 21 11 1 48 21 34 44 8 24 39 5 8 4 49 37 31 26 20 37 28 11 43 34 19 3

-> 4: 71H 78L 10844# -> 5: 124H 175L 18311# -> 6: 50H 77L 6592# -> 7: 123H 17L 14503#  
17 34 46 9 26 36 7 35 4 22 48 19 38 9 10 28 36 5 16 32 48 29 14 38 20 46 23 5  
39 2 19 29 49 10 27 26 45 16 42 11 29 6 19 30 46 13 24 42 1 16 47 22 7 31 13 39  
12 22 42 3 20 32 44 18 36 13 33 3 23 49 27 38 7 15 33 44 11 6 32 9 40 15 49 24  
35 45 13 25 37 5 15 10 30 7 25 43 20 40 29 47 9 25 41 3 21 42 17 48 25 2 33 8  
6 18 30 47 8 28 38 1 27 47 17 37 14 32 39 6 17 35 43 12 23 26 1 35 10 41 18 44  
23 40 1 21 31 48 11 44 21 39 8 34 5 24 49 8 26 37 4 20 31 11 37 19 43 28 3 34  
43 14 24 41 4 16 33 41 12 31 2 28 46 15 2 18 34 45 14 22 40 45 27 4 30 12 36 21

.....



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[1089] 2H 67L 1541# -> 1: 72H 27L 9395# -> 2: 4H 127L 2471# -> 3: 122H 65L 15940#
  3 39 26 9 49 29 20 15 24 33 42 48 4 9 5 17 29 44 11 27 42 31 21 4 36 26 13 44
 28 8 48 31 18 5 37 49 6 11 16 22 31 40 48 14 26 38 1 16 32 11 43 33 20 2 38 28
 46 33 16 7 36 27 10 23 29 38 47 7 13 18 37 4 20 35 47 10 22 40 27 9 45 35 18 1
 15 6 38 25 12 44 35 5 14 20 25 30 36 45 31 43 9 25 41 7 19 16 3 42 25 8 47 34
 40 23 14 43 34 17 4 32 37 43 3 12 21 27 28 40 3 15 30 46 13 49 32 15 5 41 23 10
 13 45 32 19 2 42 22 10 19 28 34 39 44 1 18 34 49 12 24 36 2 22 12 48 30 17 7 39
 30 21 1 41 24 11 47 41 46 2 8 17 26 35 8 23 39 6 21 33 45 6 37 24 14 46 29 19

-> 4: 69H 48L 10071# -> 5: 143H 68L 20193# -> 6: 70H 147L 12414# -> 7: 49H 47L 5822#
 16 46 27 7 33 10 36 38 23 13 47 29 18 7 20 37 10 35 4 22 47 9 40 18 45 27 1 35
 26 3 29 9 39 20 49 33 15 4 42 24 9 48 29 5 27 44 17 42 11 4 31 13 36 21 44 26
 32 13 42 19 45 22 2 28 10 44 34 19 1 39 49 18 36 12 34 2 24 48 22 7 30 12 39 17
 38 15 44 25 6 35 12 20 5 36 25 14 45 30 9 31 7 25 43 19 41 42 16 47 25 3 34 8
 48 28 5 31 8 37 18 11 49 31 16 6 40 22 26 48 16 38 14 32 1 33 11 38 20 43 28 2
 1 30 11 41 21 47 24 2 41 26 8 46 35 17 39 8 33 6 23 45 21 24 6 29 14 37 19 46
 14 40 17 43 23 4 34 43 32 21 3 37 27 12 3 28 46 15 40 13 30 15 49 23 5 32 10 41

-> 8: 142H 167L 22505# -> 9: 190H 45L 24472# -> 10: 141H 25L 18793# -> 11: 1H 165L 3853#
 42 32 22 19 13 2 45 44 28 1 34 10 39 19 36 49 2 12 18 24 34 7 48 39 30 22 17 12
 27 16 10 7 46 36 33 13 38 18 47 23 7 29 10 20 22 35 37 47 4 18 9 1 45 40 35 27
 11 1 47 41 30 24 21 26 2 35 8 41 17 46 33 39 45 6 8 21 23 29 24 19 14 6 46 37
 44 38 35 25 15 12 6 36 20 45 25 5 30 14 7 9 19 25 31 41 43 47 42 34 25 16 8 3
 29 26 20 9 3 49 39 4 33 9 42 15 48 24 27 29 42 44 5 11 17 13 4 44 36 31 26 21
 17 14 4 43 40 34 23 21 43 27 3 32 12 37 46 3 13 15 28 30 40 23 15 10 5 49 41 32
 5 48 37 31 28 18 8 31 11 40 16 49 22 6 16 26 32 38 48 1 14 38 33 28 20 11 2 43

-> 12: 191H 126L 26108# -> 13: 121H 166L 18254# -> 14: 189H 66L 25178# -> 15: 71H 128L 11709#
 47 11 24 41 1 21 30 35 26 17 8 2 46 41 45 33 21 6 39 23 8 19 29 46 14 24 37 6
 22 42 2 19 32 45 13 1 44 39 34 28 19 10 2 36 24 12 49 34 18 39 7 17 30 48 12 22
 4 17 34 43 14 23 40 27 21 12 3 43 37 32 13 46 30 15 3 40 28 10 23 41 5 15 32 49
 35 44 12 25 38 6 15 45 36 30 25 20 14 5 19 7 41 25 9 43 31 34 47 8 25 42 3 16
 10 27 36 7 16 33 46 18 13 7 47 38 29 23 22 10 47 35 20 4 37 1 18 35 45 9 27 40
 37 5 18 31 48 8 28 40 31 22 16 11 6 49 32 16 1 38 26 14 48 28 38 2 20 33 43 11
 20 29 49 9 26 39 3 9 4 48 42 33 24 15 42 27 11 44 29 17 5 44 13 26 36 4 21 31

-> 16: 124H 145L 17578# -> 17: 50H 125L 7456# -> 18: 123H 46L 15235# -> 19: 144H 146L 21827#
 34 4 23 43 17 40 14 12 27 37 3 21 32 43 30 13 40 15 46 28 3 41 10 32 5 23 49 15
 24 47 21 41 11 30 1 17 35 46 8 26 41 2 21 45 23 6 33 8 39 46 19 37 14 29 6 24
 18 37 8 31 5 28 48 22 40 6 16 31 49 11 1 32 14 38 16 48 26 2 28 43 20 38 11 33
 12 35 6 25 44 15 38 30 45 14 25 36 5 20 41 19 43 25 7 31 9 8 34 3 25 47 16 42
 2 22 45 19 42 13 32 39 1 19 34 44 10 28 24 2 34 12 36 18 49 17 39 12 30 7 22 48
 49 20 39 9 29 3 26 48 9 24 42 4 15 33 11 42 17 44 27 5 29 26 44 21 36 13 31 4
 36 10 33 7 27 46 16 7 18 29 47 13 23 38 47 22 4 35 10 37 20 35 1 27 45 18 40 9

-> 20: 51H 26L 5144# -> 21: 3H 148L 3177# -> 22: 52H 168L 8856# -> 23: 192H 28L 23796#
 8 18 28 31 37 48 5 6 22 49 16 40 11 31 14 1 48 38 32 26 16 43 2 11 20 28 33 38
 23 34 40 43 4 14 17 37 12 32 3 27 43 21 40 30 28 15 13 3 46 32 41 49 5 10 15 23
 39 49 3 9 20 26 29 24 48 15 42 9 33 4 17 11 5 44 42 29 27 21 26 31 36 44 4 13
 6 12 15 25 35 38 44 14 30 5 25 45 20 36 43 41 31 25 19 9 7 3 8 16 25 34 42 47
 21 24 30 41 47 1 11 46 17 41 8 35 2 26 23 21 8 6 45 39 33 37 46 6 14 19 24 29
 33 36 46 7 10 16 27 29 7 23 47 18 38 13 4 47 37 35 22 20 10 27 35 40 45 1 9 18
 45 2 13 19 22 32 42 19 39 10 34 1 28 44 34 24 18 12 2 49 36 12 17 22 30 39 48 7

```

[The Solution Numbers of the 1152 on the Original Top Required for Reconstruction]

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,  
21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40,  
41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60,  
61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,  
81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100,  
101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120,  
121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140,  
141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160,  
161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180,  
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201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220,  
221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240,  
241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260,  
261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280,





```

/** Reflection **/
=>
  1| 2| 3| 4| 5| 6| 7|
  8| 9|10|11|12|13|14|
 15|16|17|18|19|20|21|
 22|23|24|25|26|27|28|
 29|30|31|32|33|34|35|
 36|37|38|39|40|41|42|
 43|44|45|46|47|48|49|

  1| 8|15|22|29|36|43|
  2| 9|16|23|30|37|44|
  3|10|17|24|31|38|45|
  4|11|18|25|32|39|46|
  5|12|19|26|33|40|47|
  6|13|20|27|34|41|48|
  7|14|21|28|35|42|49|

```

```

/* Rules of Reflection */
void reflct7(){
d[ 1]=nm[ 1]; d[ 2]=nm[ 8]; d[ 3]=nm[15]; d[ 4]=nm[22]; d[ 5]=nm[29]; d[ 6]=nm[36]; d[ 7]=nm[43];
d[ 8]=nm[ 2]; d[ 9]=nm[ 9]; d[10]=nm[16]; d[11]=nm[23]; d[12]=nm[30]; d[13]=nm[37]; d[14]=nm[44];
d[15]=nm[ 3]; d[16]=nm[10]; d[17]=nm[17]; d[18]=nm[24]; d[19]=nm[31]; d[20]=nm[38]; d[21]=nm[45];
d[22]=nm[ 4]; d[23]=nm[11]; d[24]=nm[18]; d[25]=nm[25]; d[26]=nm[32]; d[27]=nm[39]; d[28]=nm[46];
d[29]=nm[ 5]; d[30]=nm[12]; d[31]=nm[19]; d[32]=nm[26]; d[33]=nm[33]; d[34]=nm[40]; d[35]=nm[47];
d[36]=nm[ 6]; d[37]=nm[13]; d[38]=nm[20]; d[39]=nm[27]; d[40]=nm[34]; d[41]=nm[41]; d[42]=nm[48];
d[43]=nm[ 7]; d[44]=nm[14]; d[45]=nm[21]; d[46]=nm[28]; d[47]=nm[35]; d[48]=nm[42]; d[49]=nm[49];
}
/**/

```

The next list shows our recent results. I am sorry to print out only 4 examples.

```

** Transform each one after another sequentially by the 'Classic Composition' and **
** Reconstruct the new 48 Simultaneous MS77: Self-complementary and Pan-diagonal **
[48 Reconstructions from each Original with the ones after its Reflected[nR]]
[ 1]  1H  2L  1# -> 1: 191H  72L 25197# -> 2: 121H  4L 14403# -> 3: 189H 122L 26090#
  1 48 39 30 28 19 10 45 11 26 41 7 15 30 29 24 19 14 2 46 41 47 31 15 6 39 23 14
 18 9 7 47 38 29 27 28 36 2 17 32 47 13 7 44 39 34 22 17 12 2 42 26 10 43 34 18
 35 26 17 8 6 46 37 4 19 34 49 8 23 38 27 15 10 5 49 37 32 13 46 30 21 5 38 22
 45 36 34 25 16 14 5 29 44 10 25 40 6 21 47 42 30 25 20 8 3 17 1 41 25 9 49 33
 13 4 44 42 33 24 15 12 27 42 1 16 31 46 18 13 1 45 40 35 23 28 12 45 29 20 4 37
 23 21 12 3 43 41 32 37 3 18 33 48 14 22 38 33 28 16 11 6 43 32 16 7 40 24 8 48
 40 31 22 20 11 2 49 20 35 43 9 24 39 5 9 4 48 36 31 26 21 36 27 11 44 35 19 3

-> 4: 71H  69L 10795# -> 5: 124H 143L 17543# -> 6: 50H  70L  6545# -> 7: 123H  49L 15271#
 17 35 46 8 26 37 6 34 4 23 49 19 38 8 10 27 37 5 15 32 49 30 13 38 21 46 22 5
 39 1 19 30 48 10 28 26 45 15 41 11 30 7 19 29 46 14 24 41 2 15 47 23 6 31 14 39
 12 23 41 3 21 32 43 18 37 14 33 3 22 48 28 38 6 16 33 43 11 7 32 8 40 16 48 24
 34 45 14 25 36 5 16 10 29 6 25 44 21 40 30 47 8 25 42 3 20 41 17 49 25 1 33 9
 7 18 29 47 9 27 38 2 28 47 17 36 13 32 39 7 17 34 44 12 22 26 2 34 10 42 18 43
 22 40 2 20 31 49 11 43 20 39 9 35 5 24 48 9 26 36 4 21 31 11 36 19 44 27 3 35
 44 13 24 42 4 15 33 42 12 31 1 27 46 16 1 18 35 45 13 23 40 45 28 4 29 12 37 20

-> 8: 144H 142L 21791# -> 9: 51H  190L  8996# ->10:  3H 141L  3139# ->11: 52H  1L  5002#
 41 12 32 3 23 43 21 14 18 22 33 37 48 3 6 28 43 16 38 11 33 8 7 48 40 32 24 16
 46 17 37 8 35 6 26 23 34 38 49 4 8 19 37 10 32 5 27 49 15 38 30 22 21 13 5 46
 2 22 49 20 40 11 31 39 43 5 9 20 24 35 26 48 21 36 9 31 4 19 11 3 44 36 35 27
 14 34 5 25 45 16 36 6 10 21 25 29 40 44 8 30 3 25 47 20 42 49 41 33 25 17 9 1
 19 39 10 30 1 28 48 15 26 30 41 45 7 11 46 19 41 14 29 2 24 23 15 14 6 47 39 31
 24 44 15 42 13 33 4 31 42 46 1 12 16 27 35 1 23 45 18 40 13 4 45 37 29 28 20 12
 29 7 27 47 18 38 9 47 2 13 17 28 32 36 17 39 12 34 7 22 44 34 26 18 10 2 43 42

->12: 192H 191L 27648# ->13:  2H 121L  2452# ->14: 72H 189L 13246# ->15:  4H  71L  1559#
 49 2 11 20 22 31 40 5 39 24 9 43 35 20 21 26 31 36 48 4 9 3 19 35 44 11 27 36
 32 41 43 3 12 21 23 22 14 48 33 18 3 37 43 6 11 16 28 33 38 48 8 24 40 7 16 32
 15 24 33 42 44 4 13 46 31 16 1 42 27 12 23 35 40 45 1 13 18 37 4 20 29 45 12 28
 5 14 16 25 34 36 45 21 6 40 25 10 44 29 3 8 20 25 30 42 47 33 49 9 25 41 1 17
 37 46 6 8 17 26 35 38 23 8 49 34 19 4 32 37 49 5 10 15 27 22 38 5 21 30 46 13
 27 29 38 47 7 9 18 13 47 32 17 2 36 28 12 17 22 34 39 44 7 18 34 43 10 26 42 2
 10 19 28 30 39 48 1 30 15 7 41 26 11 45 41 46 2 14 19 24 29 14 23 39 6 15 31 47

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->16: 122H 124L 16854# ->17: 69H 50L 10106# ->18: 143H 123L 21104# ->19: 70H 144L 12378#  
 33 15 4 42 24 13 44 16 46 27 1 31 12 42 40 23 13 45 35 18 1 20 37 12 29 4 28 45  
 11 49 31 20 2 40 22 24 5 35 9 39 20 43 31 21 4 36 26 9 48 35 3 27 44 19 36 11  
 38 27 9 47 29 18 7 32 13 36 17 47 28 2 22 12 44 34 17 7 39 43 18 42 10 34 2 26  
 16 5 36 25 14 45 34 40 21 44 25 6 29 10 20 3 42 25 8 47 30 9 33 1 25 49 17 41  
 43 32 21 3 41 23 12 48 22 3 33 14 37 18 11 43 33 16 6 38 28 24 48 16 40 8 32 7  
 28 10 48 30 19 1 39 7 30 11 41 15 45 26 2 41 24 14 46 29 19 39 14 31 6 23 47 15  
 6 37 26 8 46 35 17 8 38 19 49 23 4 34 49 32 15 5 37 27 10 5 22 46 21 38 13 30  
 ->20: 49H 51L 5858# ->21: 142H 3L 18653# ->22: 190H 52L 24510# ->23: 141H 192L 22647#  
 9 38 18 47 27 7 29 36 32 28 17 13 2 47 44 22 7 34 12 39 17 42 43 2 10 18 26 34  
 4 33 13 42 15 44 24 27 16 12 1 46 42 31 13 40 18 45 23 1 35 12 20 28 29 37 45 4  
 48 28 1 30 10 39 19 11 7 45 41 30 26 15 24 2 29 14 41 19 46 31 39 47 6 14 15 23  
 36 16 45 25 5 34 14 44 40 29 25 21 10 6 42 20 47 25 3 30 8 1 9 17 25 33 41 49  
 31 11 40 20 49 22 2 35 24 20 9 5 43 39 4 31 9 36 21 48 26 27 35 36 44 3 11 19  
 26 6 35 8 37 17 46 19 8 4 49 38 34 23 15 49 27 5 32 10 37 46 5 13 21 22 30 38  
 21 43 23 3 32 12 41 3 48 37 33 22 18 14 33 11 38 16 43 28 6 16 24 32 40 48 7 8  
 [ 1R] 4H 3L 12# ->25: 122H 52L 15270# ->26: 69H 192L 13239# ->27: 143H 2L 18656#  
 1 18 35 45 13 23 40 30 15 7 41 26 11 45 21 43 23 3 32 12 41 36 27 11 44 35 19 3  
 48 9 26 36 4 21 31 13 47 32 17 2 36 28 26 6 35 8 37 17 46 32 16 7 40 24 8 48  
 39 7 17 34 44 12 22 38 23 8 49 34 19 4 31 11 40 20 49 22 2 28 12 45 29 20 4 37  
 30 47 8 25 42 3 20 21 6 40 25 10 44 29 36 16 45 25 5 34 14 17 1 41 25 9 49 33  
 28 38 6 16 33 43 11 46 31 16 1 42 27 12 48 28 1 30 10 39 19 13 46 30 21 5 38 22  
 19 29 46 14 24 41 2 22 14 48 33 18 3 37 4 33 13 42 15 44 24 2 42 26 10 43 34 18  
 10 27 37 5 15 32 49 5 39 24 9 43 35 20 9 38 18 47 27 7 29 47 31 15 6 39 23 14  
 ->28: 70H 72L 10794# ->29: 49H 4L 4995# ->30: 142H 122L 21101# ->31: 190H 69L 25192#  
 17 39 12 34 7 22 44 8 38 19 49 23 4 34 40 31 22 20 11 2 49 45 28 4 29 12 37 20  
 35 1 23 45 18 40 13 7 30 11 41 15 45 26 23 21 12 3 43 41 32 11 36 19 44 27 3 35  
 46 19 41 14 29 2 24 48 22 3 33 14 37 18 13 4 44 42 33 24 15 26 2 34 10 42 18 43  
 8 30 3 25 47 20 42 40 21 44 25 6 29 10 45 36 34 25 16 14 5 41 17 49 25 1 33 9  
 26 48 21 36 9 31 4 32 13 36 17 47 28 2 35 26 17 8 6 46 37 7 32 8 40 16 48 24  
 37 10 32 5 27 49 15 24 5 35 9 39 20 43 18 9 7 47 38 29 27 15 47 23 6 31 14 39  
 6 28 43 16 38 11 33 16 46 27 1 31 12 42 1 48 39 30 28 19 10 30 13 38 21 46 22 5  
 ->32: 141H 143L 21782# ->33: 1H 70L 1550# ->34: 191H 49L 24511# ->35: 121H 142L 17534#  
 41 46 2 14 19 24 29 3 48 37 33 22 18 14 44 13 24 42 4 15 33 34 26 18 10 2 43 42  
 12 17 22 34 39 44 7 19 8 4 49 38 34 23 22 40 2 20 31 49 11 4 45 37 29 28 20 12  
 32 37 49 5 10 15 27 35 24 20 9 5 43 39 7 18 29 47 9 27 38 23 15 14 6 47 39 31  
 3 8 20 25 30 42 47 44 40 29 25 21 10 6 34 45 14 25 36 5 16 49 41 33 25 17 9 1  
 23 35 40 45 1 13 18 11 7 45 41 30 26 15 12 23 41 3 21 32 43 19 11 3 44 36 35 27  
 43 6 11 16 28 33 38 27 16 12 1 46 42 31 39 1 19 30 48 10 28 38 30 22 21 13 5 46  
 21 26 31 36 48 4 9 36 32 28 17 13 2 47 17 35 46 8 26 37 6 8 7 48 40 32 24 16  
 ->36: 189H 190L 27637# ->37: 71H 141L 12379# ->38: 124H 1L 14410# ->39: 50H 191L 8993#  
 49 32 15 5 37 27 10 20 35 43 9 24 39 5 29 7 27 47 18 38 9 14 23 39 6 15 31 47  
 2 41 24 14 46 29 19 37 3 18 33 48 14 22 24 44 15 42 13 33 4 18 34 43 10 26 42 2  
 11 43 33 16 6 38 28 12 27 42 1 16 31 46 19 39 10 30 1 28 48 22 38 5 21 30 46 13  
 20 3 42 25 8 47 30 29 44 10 25 40 6 21 14 34 5 25 45 16 36 33 49 9 25 41 1 17  
 22 12 44 34 17 7 39 4 19 34 49 8 23 38 2 22 49 20 40 11 31 37 4 20 29 45 12 28  
 31 21 4 36 26 9 48 28 36 2 17 32 47 13 46 17 37 8 35 6 26 48 8 24 40 7 16 32  
 40 23 13 45 35 18 1 45 11 26 41 7 15 30 41 12 32 3 23 43 21 3 19 35 44 11 27 36  
 ->40: 123H 121L 16855# ->41: 144H 189L 22654# ->42: 51H 71L 6548# ->43: 3H 124L 2457#  
 33 11 38 16 43 28 6 42 12 31 1 27 46 16 10 19 28 30 39 48 1 5 22 46 21 38 13 30  
 15 49 27 5 32 10 37 43 20 39 9 35 5 24 27 29 38 47 7 9 18 39 14 31 6 23 47 15  
 4 31 9 36 21 48 26 2 28 47 17 36 13 32 37 46 6 8 17 26 35 24 48 16 40 8 32 7  
 42 20 47 25 3 30 8 10 29 6 25 44 21 40 5 14 16 25 34 36 45 9 33 1 25 49 17 41  
 24 2 29 14 41 19 46 18 37 14 33 3 22 48 15 24 33 42 44 4 13 43 18 42 10 34 2 26  
 13 40 18 45 23 1 35 26 45 15 41 11 30 7 32 41 43 3 12 21 23 35 3 27 44 19 36 11  
 44 22 7 34 12 39 17 34 4 23 49 19 38 8 49 2 11 20 22 31 40 20 37 12 29 4 28 45  
 ->44: 52H 50L 5867# ->45: 192H 123L 26099# ->46: 2H 144L 3138# ->47: 72H 51L 10115#  
 9 4 48 36 31 26 21 47 2 13 17 28 32 36 6 37 26 8 46 35 17 16 24 32 40 48 7 8  
 38 33 28 16 11 6 43 31 42 46 1 12 16 27 28 10 48 30 19 1 39 46 5 13 21 22 30 38  
 18 13 1 45 40 35 23 15 26 30 41 45 7 11 43 32 21 3 41 23 12 27 35 36 44 3 11 19  
 47 42 30 25 20 8 3 6 10 21 25 29 40 44 16 5 36 25 14 45 34 1 9 17 25 33 41 49  
 27 15 10 5 49 37 32 39 43 5 9 20 24 35 38 27 9 47 29 18 7 31 39 47 6 14 15 23  
 7 44 39 34 22 17 12 23 34 38 49 4 8 19 11 49 31 20 2 40 22 12 20 28 29 37 45 4  
 29 24 19 14 2 46 41 14 18 22 33 37 48 3 33 15 4 42 24 13 44 42 43 2 10 18 26 34  
 . . . . .

[ 2]	1H	3L	2#	-> 1: 191H 52L 24513#	-> 2: 121H 192L 18399#	-> 3: 189H 2L 23642#
1	46	42	31 27 16 12	44 8 28 41 5 18 31	35 22 16 10 4 47 41	43 34 18 2 42 26 10
20	9	5	43 39 35 24	27 40 4 17 30 43 14	5 48 42 29 23 17 11	4 37 28 12 45 29 20
32	28	17	13 2 47 36	3 16 29 49 13 26 39	24 18 12 6 49 36 30	14 47 31 15 6 39 23
44	40	29	25 21 10 6	35 48 12 25 38 2 15	43 37 31 25 19 13 7	17 1 41 25 9 49 33
14	3	48	37 33 22 18	11 24 37 1 21 34 47	20 14 1 44 38 32 26	27 11 44 35 19 3 36
26	15	11	7 45 41 30	36 7 20 33 46 10 23	39 33 27 21 8 2 45	30 21 5 38 22 13 46
38	34	23	19 8 4 49	19 32 45 9 22 42 6	9 3 46 40 34 28 15	40 24 8 48 32 16 7
-> 4:	71H	72L	10797#	-> 5: 124H 4L 14412#	-> 6: 50H 122L 7444#	-> 7: 123H 69L 15955#
17	32	47	13 28 36 2	29 3 26 49 16 39 13	12 24 36 6 18 30 49	31 14 39 15 47 23 6
42	1	16	31 46 12 27	28 44 18 41 8 31 5	16 35 47 10 22 41 4	18 43 26 2 34 10 42
11	26	41	7 15 30 45	20 36 10 33 7 23 46	27 39 2 21 33 45 8	5 30 13 38 21 46 22
29	44	10	25 40 6 21	12 35 2 25 48 15 38	31 43 13 25 37 7 19	41 17 49 25 1 33 9
5	20	35	43 9 24 39	4 27 43 17 40 14 30	42 5 17 29 48 11 23	28 4 29 12 37 20 45
23	38	4	19 34 49 8	45 19 42 9 32 6 22	46 9 28 40 3 15 34	8 40 16 48 24 7 32
48	14	22	37 3 18 33	37 11 34 1 24 47 21	1 20 32 44 14 26 38	44 27 3 35 11 36 19
-> 8:	144H	143L	21792#	-> 9: 51H 70L 6547#	->10: 3H 49L 871#	->11: 52H 142L 8134#
41	11	30	7 26 45 15	10 20 23 33 36 46 7	2 27 45 21 39 8 33	13 5 46 38 30 22 21
47	17	36	13 32 2 28	26 29 39 49 3 13 16	36 12 30 6 24 49 18	39 31 23 15 14 6 47
4	23	49	19 38 8 34	42 45 6 9 19 22 32	28 46 15 40 9 34 3	16 8 7 48 40 32 24
10	29	6	25 44 21 40	2 12 15 25 35 38 48	13 31 7 25 43 19 37	49 41 33 25 17 9 1
16	42	12	31 1 27 46	18 28 31 41 44 5 8	47 16 41 10 35 4 22	26 18 10 2 43 42 34
22	48	18	37 14 33 3	34 37 47 1 11 21 24	32 1 26 44 20 38 14	3 44 36 35 27 19 11
35	5	24	43 20 39 9	43 4 14 17 27 30 40	17 42 11 29 5 23 48	29 28 20 12 4 45 37
->12:	192H	190L	27647#	->13: 2H 141L 3136#	->14: 72H 1L 9250#	->15: 4H 191L 4007#
49	4	8	19 23 34 38	6 42 22 9 45 32 19	15 28 34 40 46 3 9	7 16 32 48 8 24 40
30	41	45	7 11 15 26	23 10 46 33 20 7 36	45 2 8 21 27 33 39	46 13 22 38 5 21 30
18	22	33	37 48 3 14	47 34 21 1 37 24 11	26 32 38 44 1 14 20	36 3 19 35 44 11 27
6	10	21	25 29 40 44	15 2 38 25 12 48 35	7 13 19 25 31 37 43	33 49 9 25 41 1 17
36	47	2	13 17 28 32	39 26 13 49 29 16 3	30 36 49 6 12 18 24	23 39 6 15 31 47 14
24	35	39	43 5 9 20	14 43 30 17 4 40 27	11 17 23 29 42 48 5	20 29 45 12 28 37 4
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 23 7 33 10 36 20 46 30 39 48 1 10 19 28 31 27 16 12 1 46 42 4 20 29 45 12 28 37
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 34 11 37 21 47 24 1 21 23 32 41 43 3 12 41 30 26 15 11 7 45 15 31 47 14 23 39 6

->40: 121H 123L 16850# ->41: 189H 144L 26775# ->42: 71H 51L 10112# ->43: 124H 3L 14411#
 33 23 20 10 7 46 36 48 30 19 1 39 28 10 16 31 46 12 27 42 1 29 4 28 45 20 37 12
 3 49 39 29 26 16 13 7 38 27 9 47 29 18 39 5 20 35 43 9 24 27 44 19 36 11 35 3
 22 19 9 6 45 42 32 8 46 35 17 6 37 26 13 28 36 2 17 32 47 18 42 10 34 2 26 43
 48 38 35 25 15 12 2 16 5 36 25 14 45 34 29 44 10 25 40 6 21 9 33 1 25 49 17 41
 18 8 5 44 41 31 28 24 13 44 33 15 4 42 3 18 33 48 14 22 37 7 24 48 16 40 8 32
 37 34 24 21 11 1 47 32 21 3 41 23 12 43 26 41 7 15 30 45 11 47 15 39 14 31 6 23
 14 4 43 40 30 27 17 40 22 11 49 31 20 2 49 8 23 38 4 19 34 38 13 30 5 22 46 21

->44: 50H 52L 5862# ->45: 123H 192L 18405# ->46: 144H 2L 18658# ->47: 51H 72L 6549#
 9 22 42 6 19 32 45 35 8 37 17 46 26 6 36 13 32 2 28 47 17 10 18 26 34 42 43 2
 20 33 46 10 23 36 7 19 48 28 1 30 10 39 46 16 42 12 31 1 27 28 29 37 45 4 12 20
 24 37 1 21 34 47 11 3 32 12 41 21 43 23 7 26 45 15 41 11 30 39 47 6 14 15 23 31
 35 48 12 25 38 2 15 36 16 45 25 5 34 14 10 29 6 25 44 21 40 1 9 17 25 33 41 49
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 43 14 27 40 4 17 30 11 40 20 49 22 2 31 23 49 19 38 8 34 4 30 38 46 5 13 21 22
 5 18 31 44 8 28 41 44 24 4 33 13 42 15 33 3 22 48 18 37 14 48 7 8 16 24 32 40

```

[The Solution Numbers of the 576 on the Original Top Required for Reconstruction]

1, 2, 3, 4, 5, 6, 13, 14, 15, 16, 17, 18, 25, 26, 27, 28, 29, 30, 37, 38,  
39, 40, 41, 42, 49, 50, 51, 52, 53, 54, 61, 62, 63, 64, 65, 66, 73, 74, 75, 76,  
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1924, 1951, 1972, 1999, 2029, 2053, 2077, 2101, 2116, 2143, 2164, 2191, 2221, 2245, 2269, 2293,

[Monitor List of Total Reconstruction by the Solution Numbers]

?: 0



1/H	2/L		1# R C P\ P/	1/H	3/L		2# R C P\ P/				
0654321	0531642	1 48 39 30 28 19	10 0 0 0\0/	0654321	0362514	1 46 42 31 27 16	12 0 0 0\0/				
2106543	3164205	18 9 7 47 38 29	27 0 0 0\0/	2106543	5140362	20 9 5 43 39 35	24 0 0 0\0/				
4321065	6420531	35 26 17 8 6 46	37 0 0 0\0/	4321065	3625140	32 28 17 13 2 47	36 0 0 0\0/				
6543210	2053164	45 36 34 25 16 14	5 0 0 0\0/	6543210	1403625	44 40 29 25 21 10	6 0 0 0\0/				
1065432	5316420	13 4 44 42 33 24	15 0 0 0\0/	1065432	6251403	14 3 48 37 33 22	18 0 0 0\0/				
3210654	1642053	23 21 12 3 43 41	32 0 0 0\0/	3210654	4036251	26 15 11 7 45 41	30 0 0 0\0/				
5432106	4205316	40 31 22 20 11 2	49 0 0 0\0/	5432106	2514036	38 34 23 19 8 4	49 0 0 0\0/				
1/H	4/L		3# R C P\ P/	2/H	1/L		4# R C P\ P/				
0654321	0246135	1 45 40 35 23 18	13 0 0 0\0/	0531642	0654321	1 42 27 12 46 31	16 0 0 0\0/				
2106543	6135024	21 9 4 48 36 31	26 0 0 0\0/	3164205	2106543	24 9 43 35 20 5	39 0 0 0\0/				
4321065	5024613	34 22 17 12 7 44	39 0 0 0\0/	6420531	4321065	47 32 17 2 36 28	13 0 0 0\0/				
6543210	4613502	47 42 30 25 20 8	3 0 0 0\0/	2053164	6543210	21 6 40 25 10 44	29 0 0 0\0/				
1065432	3502461	11 6 43 38 33 28	16 0 0 0\0/	5316420	1065432	37 22 14 48 33 18	3 0 0 0\0/				
3210654	2461350	24 19 14 2 46 41	29 0 0 0\0/	1642053	3210654	11 45 30 15 7 41	26 0 0 0\0/				
5432106	1350246	37 32 27 15 10 5	49 0 0 0\0/	4205316	5432106	34 19 4 38 23 8	49 0 0 0\0/				
2/H	3/L		5# R C P\ P/	2/H	4/L		6# R C P\ P/				
0531642	0362514	1 39 28 10 48 30	19 0 0 0\0/	0531642	0246135	1 38 26 14 44 32	20 0 0 0\0/				
3164205	5140362	27 9 47 29 18 7	38 0 0 0\0/	3164205	6135024	28 9 46 34 15 3	40 0 0 0\0/				
6420531	3625140	46 35 17 6 37 26	8 0 0 0\0/	6420531	5024613	48 29 17 5 42 23	11 0 0 0\0/				
2053164	1403625	16 5 36 25 14 45	34 0 0 0\0/	2053164	4613502	19 7 37 25 13 43	31 0 0 0\0/				
5316420	6251403	42 24 13 44 33 15	4 0 0 0\0/	5316420	3502461	39 27 8 45 33 21	2 0 0 0\0/				
1642053	4036251	12 43 32 21 3 41	23 0 0 0\0/	1642053	2461350	10 47 35 16 4 41	22 0 0 0\0/				
4205316	2514036	31 20 2 40 22 11	49 0 0 0\0/	4205316	1350246	30 18 6 36 24 12	49 0 0 0\0/				
1/H	6/L		7# R C P\ P/	1/H	7/L		8# R C P\ P/				
0654321	0531624	1 48 39 30 28 17	12 0 0 0\0/	0654321	0426135	1 47 38 35 23 18	13 0 0 0\0/				
2106543	3162405	18 9 7 45 40 29	27 0 0 0\0/	2106543	6135042	21 9 4 48 36 33	24 0 0 0\0/				
4321065	6240531	35 24 19 8 6 46	37 0 0 0\0/	4321065	5042613	34 22 19 10 7 44	39 0 0 0\0/				
6543210	4053162	47 36 34 25 16 14	3 0 0 0\0/	6543210	2613504	45 42 30 25 20 8	5 0 0 0\0/				
1065432	5316240	13 4 44 42 31 26	15 0 0 0\0/	1065432	3504261	11 6 43 40 31 28	16 0 0 0\0/				
3210654	1624053	23 21 10 5 43 41	32 0 0 0\0/	3210654	4261350	26 17 14 2 46 41	29 0 0 0\0/				
5432106	2405316	38 33 22 20 11 2	49 0 0 0\0/	5432106	1350426	37 32 27 15 12 3	49 0 0 0\0/				
1/H	8/L		9# R C P\ P/	2/H	5/L		10# R C P\ P/				
0654321	0364512	1 46 42 33 27 16	10 0 0 0\0/	0531642	0652341	1 42 27 10 46 33	16 0 0 0\0/				
2106543	5120364	20 9 3 43 39 35	26 0 0 0\0/	3164205	4106523	26 9 43 35 20 3	39 0 0 0\0/				
4321065	3645120	32 28 19 13 2 45	36 0 0 0\0/	6420531	2341065	45 32 19 2 36 28	13 0 0 0\0/				
6543210	1203645	44 38 29 25 21 12	6 0 0 0\0/	2053164	6523410	21 6 38 25 12 44	29 0 0 0\0/				
1065432	6451203	14 5 48 37 31 22	18 0 0 0\0/	5316420	1065234	37 22 14 48 31 18	5 0 0 0\0/				
3210654	2036451	24 15 11 7 47 41	30 0 0 0\0/	1642053	3410652	11 47 30 15 7 41	24 0 0 0\0/				
5432106	4512036	40 34 23 17 8 4	49 0 0 0\0/	4205316	5234106	34 17 4 40 23 8	49 0 0 0\0/				
2/H	7/L		11# R C P\ P/	2/H	8/L		12# R C P\ P/				
0531642	0426135	1 40 24 14 44 32	20 0 0 0\0/	0531642	0364512	1 39 28 12 48 30	17 0 0 0\0/				
3164205	6135042	28 9 46 34 15 5	38 0 0 0\0/	3164205	5120364	27 9 45 29 18 7	40 0 0 0\0/				
6420531	5042613	48 29 19 3 42 23	11 0 0 0\0/	6420531	3645120	46 35 19 6 37 24	8 0 0 0\0/				
2053164	2613504	17 7 37 25 13 43	33 0 0 0\0/	2053164	1203645	16 3 36 25 14 47	34 0 0 0\0/				
5316420	3504261	39 27 8 47 31 21	2 0 0 0\0/	5316420	6451203	42 26 13 44 31 15	4 0 0 0\0/				
1642053	4261350	12 45 35 16 4 41	22 0 0 0\0/	1642053	2036451	10 43 32 21 5 41	23 0 0 0\0/				
4205316	1350426	30 18 6 36 26 10	49 0 0 0\0/	4205316	4512036	33 20 2 38 22 11	49 0 0 0\0/				
5/H	2/L	13#	5/H	6/L	19#	1/H	10/L	25#	1/H	14/L	31#
1 48 39 16 28 33 10			1 48 39 16 28 31 12			1 47 39 31 28 20 9			1 48 37 35 24 18 12		
32 9 7 47 38 15 27			32 9 7 45 40 15 27			18 10 7 48 37 29 26			21 10 4 47 36 34 23		
21 26 31 8 6 46 37			21 24 33 8 6 46 37			35 27 16 8 5 46 38			33 22 20 9 7 45 39		
45 36 20 25 30 14 5			47 36 20 25 30 14 3			44 36 33 25 17 14 6			44 42 31 25 19 8 6		
13 4 44 42 19 24 29			13 4 44 42 17 26 29			12 4 45 42 34 23 15			11 5 43 41 30 28 17		
23 35 12 3 43 41 18			23 35 10 5 43 41 18			24 21 13 2 43 40 32			27 16 14 3 46 40 29		
40 17 22 34 11 2 49			38 19 22 34 11 2 49			41 30 22 19 11 3 49			38 32 26 15 13 2 49		
5/H	10/L	37#	5/H	14/L	43#	1/H	18/L	49#	1/H	22/L	55#
1 47 39 17 28 34 9			1 48 37 21 24 32 12			1 46 42 30 24 19 13			1 48 37 35 26 18 10		
32 10 7 48 37 15 26			35 10 4 47 36 20 23			17 12 6 43 39 35 23			21 12 4 45 36 34 23		
21 27 30 8 5 46 38			19 22 34 9 7 45 39			32 28 16 10 5 48 36			31 22 20 9 7 47 39		
44 36 19 25 31 14 6			44 42 17 25 33 8 6			47 41 29 25 21 9 3			44 42 33 25 17 8 6		
12 4 45 42 20 23 29			11 5 43 41 16 28 31			14 2 45 40 34 22 18			11 3 43 41 30 28 19		
24 35 13 2 43 40 18			27 30 14 3 46 40 15			27 15 11 7 44 38 33			27 16 14 5 46 38 29		
41 16 22 33 11 3 49			38 18 26 29 13 2 49			37 31 26 20 8 4 49			40 32 24 15 13 2 49		

5/H 18/L 61#	1/H 26/L 73#	9/H 2/L 97#	9/H 10/L 121#
1 46 42 16 24 33 13	1 46 42 31 23 20 12	1 48 32 37 28 12 17	1 47 32 38 28 13 16
31 12 6 43 39 21 23	16 13 5 43 39 35 24	11 16 7 47 31 36 27	11 17 7 48 30 36 26
18 28 30 10 5 48 36	32 28 17 9 6 47 36	42 26 10 15 6 46 30	42 27 9 15 5 46 31
47 41 15 25 35 9 3	48 40 29 25 21 10 2	45 29 41 25 9 21 5	44 29 40 25 10 21 6
14 2 45 40 20 22 32	14 3 44 41 33 22 18	20 4 44 35 40 24 8	19 4 45 35 41 23 8
27 29 11 7 44 38 19	26 15 11 7 45 37 34	23 14 19 3 43 34 39	24 14 20 2 43 33 39
37 17 26 34 8 4 49	38 30 27 19 8 4 49	33 38 22 13 18 2 49	34 37 22 12 18 3 49
9/H 18/L 145#	9/H 26/L 169#	17/H 2/L 193#	17/H 10/L 217#
1 46 35 37 24 12 20	1 46 35 38 23 13 19	1 48 18 37 28 12 31	1 47 18 38 28 13 30
10 19 6 43 32 42 23	9 20 5 43 32 42 24	11 30 7 47 17 36 27	11 31 7 48 16 36 26
39 28 9 17 5 48 29	39 28 10 16 6 47 29	42 26 10 29 6 46 16	42 27 9 29 5 46 17
47 34 36 25 14 16 3	48 33 36 25 14 17 2	45 15 41 25 9 35 5	44 15 40 25 10 35 6
21 2 45 33 41 22 11	21 3 44 34 40 22 11	34 4 44 21 40 24 8	33 4 45 21 41 23 8
27 8 18 7 44 31 40	26 8 18 7 45 30 41	23 14 33 3 43 20 39	24 14 34 2 43 19 39
30 38 26 13 15 4 49	31 37 27 12 15 4 49	19 38 22 13 32 2 49	20 37 22 12 32 3 49
17/H 18/L 241#	17/H 26/L 265#	25/H 2/L 289#	25/H 10/L 313#
1 46 21 37 24 12 34	1 46 21 38 23 13 33	1 48 11 30 28 19 38	1 47 11 31 28 20 37
10 33 6 43 18 42 23	9 34 5 43 18 42 24	18 37 7 47 10 29 27	18 38 7 48 9 29 26
39 28 9 31 5 48 15	39 28 10 30 6 47 15	35 26 17 36 6 46 9	35 27 16 36 5 46 10
47 20 36 25 14 30 3	48 19 36 25 14 31 2	45 8 34 25 16 42 5	44 8 33 25 17 42 6
35 2 45 19 41 22 11	35 3 44 20 40 22 11	41 4 44 14 33 24 15	40 4 45 14 34 23 15
27 8 32 7 44 17 40	26 8 32 7 45 16 41	23 21 40 3 43 13 32	24 21 41 2 43 12 32
16 38 26 13 29 4 49	17 37 27 12 29 4 49	12 31 22 20 39 2 49	13 30 22 19 39 3 49
1/H 33/L 385#	1/H 65/L 769#	1/H 97/L 1153#	1/H 129/L 1537#
2 49 39 29 27 19 10	3 49 39 29 26 20 9	5 49 39 29 24 20 9	6 49 39 29 23 19 10
18 8 6 47 38 30 28	18 8 5 48 37 31 28	18 8 3 48 37 33 28	18 8 2 47 38 34 28
34 26 17 9 7 46 36	33 27 16 10 7 46 36	31 27 16 12 7 46 36	30 26 17 13 7 46 36
45 37 35 25 15 13 5	44 38 35 25 15 12 6	44 40 35 25 15 10 6	45 41 35 25 15 9 5
14 4 43 41 33 24 16	14 4 43 40 34 23 17	14 4 43 38 34 23 19	14 4 43 37 33 24 20
22 20 12 3 44 42 32	22 19 13 2 45 42 32	22 17 13 2 47 42 32	22 16 12 3 48 42 32
40 31 23 21 11 1 48	41 30 24 21 11 1 47	41 30 26 21 11 1 45	40 31 27 21 11 1 44
1/H 161/L 1921#	33/H 1/L 2305#	33/H 34/L 2497#	33/H 66/L 2689#
7 48 39 30 22 19 10	8 49 27 5 39 31 16	9 48 28 5 39 31 15	10 47 28 6 39 30 15
18 9 1 47 38 35 27	24 2 36 35 20 12 46	24 1 37 34 21 12 46	23 1 38 33 21 13 46
29 26 17 14 6 46 37	40 32 17 9 43 28 6	40 32 17 8 44 27 7	41 32 16 8 45 26 7
45 42 34 25 16 8 5	21 13 47 25 3 37 29	20 14 47 25 3 36 30	19 14 48 25 2 36 31
13 4 44 36 33 24 21	44 22 7 41 33 18 10	43 23 6 42 33 18 10	43 24 5 42 34 18 9
23 15 12 3 49 41 32	4 38 30 15 14 48 26	4 38 29 16 13 49 26	4 37 29 17 12 49 27
40 31 28 20 11 2 43	34 19 11 45 23 1 42	35 19 11 45 22 2 41	35 20 11 44 22 3 40
33/H 98/L 2881#	33/H 130/L 3073#	33/H 162/L 3265#	
12 46 24 2 42 29 20	13 46 23 3 42 29 19	14 46 22 3 41 30 19	
28 1 41 33 18 10 44	28 1 40 34 18 9 45	27 2 40 35 18 8 45	
39 31 16 14 43 27 5	39 30 17 14 43 26 6	39 29 17 13 44 26 7	
15 13 47 25 3 37 35	15 12 48 25 2 38 35	16 12 49 25 1 38 34	
45 23 7 36 34 19 11	44 24 7 36 33 20 11	43 24 6 37 33 21 11	
6 40 32 17 9 49 22	5 41 32 16 10 49 22	5 42 32 15 10 48 23	
30 21 8 48 26 4 38	31 21 8 47 27 4 37	31 20 9 47 28 4 36	

[Solution Counts(n1==1/A11) = 384/3456] OK!

Why don't we adopt the next application of new Modified Classic Composition?

Let's add the 'rotation' and 'reflection' programs to the original as follows, so that we should make any result keep the style of Standard Solution whenever it might actually come in any rotated or reflected pattern.

```

/**/
/* Classic Transformation Modified */
void clstrns7m(){
short n;
short b[50];
d[ 1]=nm[22]; d[ 2]=nm[47]; d[ 3]=nm[16]; d[ 4]=nm[41]; d[ 5]=nm[10]; d[ 6]=nm[35]; d[ 7]=nm[ 4];

```

```

d[ 8]=nm[ 5]; d[ 9]=nm[23]; d[10]=nm[48]; d[11]=nm[17]; d[12]=nm[42]; d[13]=nm[11]; d[14]=nm[29];
d[15]=nm[30]; d[16]=nm[ 6]; d[17]=nm[24]; d[18]=nm[49]; d[19]=nm[18]; d[20]=nm[36]; d[21]=nm[12];
d[22]=nm[13]; d[23]=nm[31]; d[24]=nm[ 7]; d[25]=nm[25]; d[26]=nm[43]; d[27]=nm[19]; d[28]=nm[37];
d[29]=nm[38]; d[30]=nm[14]; d[31]=nm[32]; d[32]=nm[ 1]; d[33]=nm[26]; d[34]=nm[44]; d[35]=nm[20];
d[36]=nm[21]; d[37]=nm[39]; d[38]=nm[ 8]; d[39]=nm[33]; d[40]=nm[ 2]; d[41]=nm[27]; d[42]=nm[45];
d[43]=nm[46]; d[44]=nm[15]; d[45]=nm[40]; d[46]=nm[ 9]; d[47]=nm[34]; d[48]=nm[ 3]; d[49]=nm[28];
if((d[1]<d[7])&&(d[1]<d[43])&&(d[1]<d[49])&&(d[2]>d[8])){return;}
for(n=1;n<50;n++){nm[n]=d[n]; b[n]=d[n];}; if(rotate7C==0){return;};
for(n=1;n<50;n++){nm[n]=d[n];}; if(rotate7C==0){return;};
for(n=1;n<50;n++){nm[n]=d[n];}; if(rotate7C==0){return;};
for(n=1;n<50;n++){nm[n]=b[n];}; if(reflect7C==0){return;};
for(n=1;n<50;n++){nm[n]=d[n];}; if(rotate7C==0){return;};
for(n=1;n<50;n++){nm[n]=d[n];}; if(rotate7C==0){return;};
for(n=1;n<50;n++){nm[n]=d[n];}; if(rotate7C==0){return;};
for(n=1;n<50;n++){d[n]=b[n];}
}
/**/
/** Rotation by the 90 Degrees Clockwise **

  4  5  6  7 | 11 12 13 14 | 15 16 17 18 | 22 23 24 25 | 29 30 31 32 | 36 37 38 39 | 43 44 45 46 |
  ---+---+---+---+
  11 12 13 14 | 8 9 10 11 | 12 13 14 | 8 9 10 11 | 44 45 46 47 | 48 49 50 51 | 43 44 45 46 |
  ---+---+---+---+
  18 19 20 21 | 15 16 17 18 | 19 20 21 | 15 16 17 18 | 45 46 47 48 | 49 50 51 52 | 43 44 45 46 |
  ---+---+---+---+
  25 26 27 28 | 22 23 24 25 | 26 27 28 | 22 23 24 25 | 46 47 48 49 | 50 51 52 53 | 43 44 45 46 |
  ---+---+---+---+
  32 33 34 35 | 29 30 31 32 | 33 34 35 | 29 30 31 32 | 47 48 49 50 | 51 52 53 54 | 43 44 45 46 |
  ---+---+---+---+
  39 40 41 42 | 36 37 38 39 | 40 41 42 | 36 37 38 39 | 48 49 50 51 | 52 53 54 55 | 43 44 45 46 |
  ---+---+---+---+
  46 47 48 49 | 43 44 45 46 | 47 48 49 | 43 44 45 46 | 49 50 51 52 | 53 54 55 56 | 43 44 45 46 |
  ---+---+---+---+

/* Rules of Rotation */
short rotate7C(){
short f;
d[ 1]=nm[43]; d[ 2]=nm[36]; d[ 3]=nm[29]; d[ 4]=nm[22]; d[ 5]=nm[15]; d[ 6]=nm[ 8]; d[ 7]=nm[ 1];
d[ 8]=nm[44]; d[ 9]=nm[37]; d[10]=nm[30]; d[11]=nm[23]; d[12]=nm[16]; d[13]=nm[ 9]; d[14]=nm[ 2];
d[15]=nm[45]; d[16]=nm[38]; d[17]=nm[31]; d[18]=nm[24]; d[19]=nm[17]; d[20]=nm[10]; d[21]=nm[ 3];
d[22]=nm[46]; d[23]=nm[39]; d[24]=nm[32]; d[25]=nm[25]; d[26]=nm[18]; d[27]=nm[11]; d[28]=nm[ 4];
d[29]=nm[47]; d[30]=nm[40]; d[31]=nm[33]; d[32]=nm[26]; d[33]=nm[19]; d[34]=nm[12]; d[35]=nm[ 5];
d[36]=nm[48]; d[37]=nm[41]; d[38]=nm[34]; d[39]=nm[27]; d[40]=nm[20]; d[41]=nm[13]; d[42]=nm[ 6];
d[43]=nm[49]; d[44]=nm[42]; d[45]=nm[35]; d[46]=nm[28]; d[47]=nm[21]; d[48]=nm[14]; d[49]=nm[ 7];
if((d[1]<d[7])&&(d[1]<d[43])&&(d[1]<d[49])&&(d[2]>d[8])){f=0;}else{f=1;}
return f;
}
/**/
/** Reflection **

  4  5  6  7 | 11 12 13 14 | 15 16 17 18 | 22 23 24 25 | 29 30 31 32 | 36 37 38 39 | 43 44 45 46 |
  ---+---+---+---+
  11 12 13 14 | 8 9 10 11 | 12 13 14 | 8 9 10 11 | 44 45 46 47 | 48 49 50 51 | 43 44 45 46 |
  ---+---+---+---+
  18 19 20 21 | 15 16 17 18 | 19 20 21 | 15 16 17 18 | 45 46 47 48 | 49 50 51 52 | 43 44 45 46 |
  ---+---+---+---+
  25 26 27 28 | 22 23 24 25 | 26 27 28 | 22 23 24 25 | 46 47 48 49 | 50 51 52 53 | 43 44 45 46 |
  ---+---+---+---+
  32 33 34 35 | 29 30 31 32 | 33 34 35 | 29 30 31 32 | 47 48 49 50 | 51 52 53 54 | 43 44 45 46 |
  ---+---+---+---+
  39 40 41 42 | 36 37 38 39 | 40 41 42 | 36 37 38 39 | 48 49 50 51 | 52 53 54 55 | 43 44 45 46 |
  ---+---+---+---+
  46 47 48 49 | 43 44 45 46 | 47 48 49 | 43 44 45 46 | 49 50 51 52 | 53 54 55 56 | 43 44 45 46 |
  ---+---+---+---+

/* Rules of Reflection */
short reflect7C(){
short f;
d[ 1]=nm[ 1]; d[ 2]=nm[ 8]; d[ 3]=nm[15]; d[ 4]=nm[22]; d[ 5]=nm[29]; d[ 6]=nm[36]; d[ 7]=nm[43];
d[ 8]=nm[ 2]; d[ 9]=nm[ 9]; d[10]=nm[16]; d[11]=nm[23]; d[12]=nm[30]; d[13]=nm[37]; d[14]=nm[44];
d[15]=nm[ 3]; d[16]=nm[10]; d[17]=nm[17]; d[18]=nm[24]; d[19]=nm[31]; d[20]=nm[38]; d[21]=nm[45];
d[22]=nm[ 4]; d[23]=nm[11]; d[24]=nm[18]; d[25]=nm[25]; d[26]=nm[32]; d[27]=nm[39]; d[28]=nm[46];

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```

d[29]=nm[ 5]; d[30]=nm[12]; d[31]=nm[19]; d[32]=nm[26]; d[33]=nm[33]; d[34]=nm[40]; d[35]=nm[47];
d[36]=nm[ 6]; d[37]=nm[13]; d[38]=nm[20]; d[39]=nm[27]; d[40]=nm[34]; d[41]=nm[41]; d[42]=nm[48];
d[43]=nm[ 7]; d[44]=nm[14]; d[45]=nm[21]; d[46]=nm[28]; d[47]=nm[35]; d[48]=nm[42]; d[49]=nm[49];
if((d[1]<d[7])&&(d[1]<d[43])&&(d[1]<d[49])&&(d[2]>d[8])){f=0;}else{f=1;}
return f;
}
/**/

```

**\*\* Transform each one after another sequentially by the 'Classic Composition' and \*\***  
**\*\* Reconstruct the 6 Simultaneous MS77: Both Self-complementary and Pan-diagonal \*\***

**[6 Standard Solutions from each Original CES77 by the Modified Classic Composition]**

```

[ 1] 1/H 2/L 1# -> 1: 2/H 121/L 1228#
0654321 0531642 1 48 39 30 28 19 10 0531642 4321065 5 39 24 9 43 35 20
2106543 3164205 18 9 7 47 38 29 27 3164205 0654321 22 14 48 33 18 3 37
4321065 6420531 35 26 17 8 6 46 37 6420531 3210654 46 31 16 1 42 27 12
6543210 2053164 45 36 34 25 16 14 5 2053164 6543210 21 6 40 25 10 44 29
1065432 5316420 13 4 44 42 33 24 15 5316420 2106543 38 23 8 49 34 19 4
3210654 1642053 23 21 12 3 43 41 32 1642053 5432106 13 47 32 17 2 36 28
5432106 4205316 40 31 22 20 11 2 49 4205316 1065432 30 15 7 41 26 11 45

-> 2: 49/H 51/L 2618# -> 3: 1/H 70/L 776#
1526304 1234560 9 38 18 47 27 7 29 0654321 2514036 3 48 37 33 22 18 14
0415263 3456012 4 33 13 42 15 44 24 2106543 4036251 19 8 4 49 38 34 23
6304152 5601234 48 28 1 30 10 39 19 4321065 6251403 35 24 20 9 5 43 39
5263041 0123456 36 16 45 25 5 34 14 6543210 1403625 44 40 29 25 21 10 6
4152630 2345601 31 11 40 20 49 22 2 1065432 3625140 11 7 45 41 30 26 15
3041526 4560123 26 6 35 8 37 17 46 3210654 5140362 27 16 12 1 46 42 31
2630415 6012345 21 43 23 3 32 12 41 5432106 0362514 36 32 28 17 13 2 47

-> 4: 2/H 144/L 1572# -> 5: 49/H 4/L 2403#
0531642 5140362 6 37 26 8 46 35 17 1526304 0246135 8 38 19 49 23 4 34
3164205 6251403 28 10 48 30 19 1 39 0415263 6135024 7 30 11 41 15 45 26
6420531 0362514 43 32 21 3 41 23 12 6304152 5024613 48 22 3 33 14 37 18
2053164 1403625 16 5 36 25 14 45 34 5263041 4613502 40 21 44 25 6 29 10
5316420 2514036 38 27 9 47 29 18 7 4152630 3502461 32 13 36 17 47 28 2
1642053 3625140 11 49 31 20 2 40 22 3041526 2461350 24 5 35 9 39 20 43
4205316 4036251 33 15 4 42 24 13 44 2630415 1350246 16 46 27 1 31 12 42

-> 6: 1/H 2/L 1# -> 7: 2/H 121/L 1228#
0654321 0531642 1 48 39 30 28 19 10 0531642 4321065 5 39 24 9 43 35 20
2106543 3164205 18 9 7 47 38 29 27 3164205 0654321 22 14 48 33 18 3 37
4321065 6420531 35 26 17 8 6 46 37 6420531 3210654 46 31 16 1 42 27 12
6543210 2053164 45 36 34 25 16 14 5 2053164 6543210 21 6 40 25 10 44 29
1065432 5316420 13 4 44 42 33 24 15 5316420 2106543 38 23 8 49 34 19 4
3210654 1642053 23 21 12 3 43 41 32 1642053 5432106 13 47 32 17 2 36 28
5432106 4205316 40 31 22 20 11 2 49 4205316 1065432 30 15 7 41 26 11 45

. . . . .

[ 25] 1/H 10/L 25# -> 1: 2/H 153/L 1612#
0654321 0432651 1 47 39 31 28 20 9 0531642 5312064 6 39 23 10 43 35 19
2106543 3265104 18 10 7 48 37 29 26 3164205 0645312 22 14 47 34 18 2 38
4321065 6510432 35 27 16 8 5 46 38 6420531 3120645 46 30 17 1 42 26 13
6543210 1043265 44 36 33 25 17 14 6 2053164 6453120 21 5 41 25 9 45 29
1065432 4326510 12 4 45 42 34 23 15 5316420 1206453 37 24 8 49 33 20 4
3210654 2651043 24 21 13 2 43 40 32 1642053 4531206 12 48 32 16 3 36 28
5432106 5104326 41 30 22 19 11 3 49 4205316 2064531 31 15 7 40 27 11 44

-> 2: 49/H 83/L 2810# -> 3: 1/H 39/L 392#
1526304 2135460 10 37 18 48 26 7 29 0654321 1425036 2 47 38 34 22 18 14
0415263 3546021 4 34 12 42 15 45 23 2106543 5036142 20 8 4 49 37 33 24
6304152 4602135 47 28 1 31 9 39 20 4321065 6142503 35 23 19 10 6 43 39
5263041 0213546 36 17 44 25 6 33 14 6543210 2503614 45 41 29 25 21 9 5
4152630 1354602 30 11 41 19 49 22 3 1065432 3614250 11 7 44 40 31 27 15
3041526 5460213 27 5 35 8 38 16 46 3210654 4250361 26 17 13 1 46 42 30
2630415 6021354 21 43 24 2 32 13 40 5432106 0361425 36 32 28 16 12 3 48

-> 4: 2/H 112/L 1188# -> 5: 49/H 12/L 2415#
0531642 4250361 5 38 27 8 46 35 16 1526304 0156234 8 37 20 49 24 4 33
3164205 6142503 28 9 47 31 20 1 39 0415263 6234015 7 31 11 40 15 44 27

```

6420531 0361425 43 32 21 2 40 24 13 6304152 4015623 47 22 2 34 14 38 18  
2053164 2503614 17 6 36 25 14 44 33 5263041 5623401 41 21 45 25 5 29 9  
5316420 1425036 37 26 10 48 29 18 7 4152630 3401562 32 12 36 16 48 28 3  
1642053 3614250 11 49 30 19 3 41 22 3041526 1562340 23 6 35 10 39 19 43  
4205316 5036142 34 15 4 42 23 12 45 2630415 2340156 17 46 26 1 30 13 42

[ 49] 1/H 18/L 49# -> 1: 2/H 77/L 802#  
0654321 0361245 1 46 42 30 24 19 13 0531642 2604135 3 42 22 12 44 32 20  
2106543 2450361 17 12 6 43 39 35 23 3164205 4135260 26 9 46 34 17 7 36  
4321065 3612450 32 28 16 10 5 48 36 6420531 5260413 48 31 21 1 40 23 11  
6543210 4503612 47 41 29 25 21 9 3 2053164 0413526 15 5 37 25 13 45 35  
1065432 6124503 14 2 45 40 34 22 18 5316420 3526041 39 27 10 49 29 19 2  
3210654 5036124 27 15 11 7 44 38 33 1642053 6041352 14 43 33 16 4 41 24  
5432106 1245036 37 31 26 20 8 4 49 4205316 1352604 30 18 6 38 28 8 47

-> 2: 49/H 113/L 3001# -> 3: 1/H 175/L 1953#  
1526304 4320156 12 39 17 43 23 6 35 0654321 6305421 7 46 36 34 26 17 9  
0415263 1564320 2 34 14 40 18 45 22 2106543 4216305 19 10 2 49 39 29 27  
6304152 3201564 46 24 1 30 13 42 19 4321065 3054216 32 22 20 12 3 44 42  
5263041 5643201 41 21 47 25 3 29 9 6543210 2163054 45 37 35 25 15 13 5  
4152630 2015643 31 8 37 20 49 26 4 1065432 0542163 8 6 47 38 30 28 18  
3041526 6432015 28 5 32 10 36 16 48 3210654 1630542 23 21 11 1 48 40 31  
2630415 0156432 15 44 27 7 33 11 38 5432106 5421630 41 33 24 16 14 4 43

-> 4: 2/H 116/L 1206# -> 5: 49/H 80/L 2802#  
0531642 4062531 5 36 28 10 48 32 16 1526304 2346510 10 39 19 49 27 2 29  
3164205 2531406 24 13 46 30 19 1 42 0415263 5102346 6 30 8 38 18 47 28  
6420531 1406253 44 33 15 7 38 27 11 6304152 3465102 46 26 7 34 9 36 17  
2053164 6253140 21 3 41 25 9 47 29 5263041 1023465 37 15 45 25 5 35 13  
5316420 3140625 39 23 12 43 35 17 6 4152630 4651023 33 14 41 16 43 24 4  
1642053 0625314 8 49 31 20 4 37 26 3041526 0234651 22 3 32 12 42 20 44  
4205316 5314062 34 18 2 40 22 14 45 2630415 6510234 21 48 23 1 31 11 40

[ 73] 1/H 26/L 73# -> 1: 2/H 45/L 418#  
0654321 0362154 1 46 42 31 23 20 12 0531642 1605234 2 42 22 13 45 32 19  
2106543 1540362 16 13 5 43 39 35 24 3164205 5234160 27 10 46 33 16 7 36  
4321065 3621540 32 28 17 9 6 47 36 6420531 4160523 47 30 21 1 41 24 11  
6543210 5403621 48 40 29 25 21 10 2 2053164 0523416 15 6 38 25 12 44 35  
1065432 6215403 14 3 44 41 33 22 18 5316420 3416052 39 26 9 49 29 20 3  
3210654 4036215 26 15 11 7 45 37 34 1642053 6052341 14 43 34 17 4 40 23  
5432106 2154036 38 30 27 19 8 4 49 4205316 2341605 31 18 5 37 28 8 48

-> 2: 49/H 145/L 3193# -> 3: 1/H 167/L 1929#  
1526304 5310246 13 39 16 43 24 5 35 0654321 6304512 7 46 36 33 27 16 10  
0415263 2465310 3 33 14 41 18 44 22 2106543 5126304 20 9 3 49 39 29 26  
6304152 3102465 46 23 1 31 12 42 20 4321065 3045126 32 22 19 13 2 45 42  
5263041 4653102 40 21 48 25 2 29 10 6543210 1263045 44 38 35 25 15 12 6  
4152630 1024653 30 8 38 19 49 27 4 1065432 0451263 8 5 48 37 31 28 18  
3041526 6531024 28 6 32 9 36 17 47 3210654 2630451 24 21 11 1 47 41 30  
2630415 0246531 15 45 26 7 34 11 37 5432106 4512630 40 34 23 17 14 4 43

-> 4: 2/H 148/L 1590# -> 5: 49/H 48/L 2610#  
0531642 5061432 6 36 28 9 47 32 17 1526304 1356420 9 39 20 49 26 3 29  
3164205 1432506 23 12 46 31 20 1 42 0415263 4201356 5 31 8 37 18 48 28  
6420531 2506143 45 34 15 7 37 26 11 6304152 3564201 46 27 7 33 10 36 16  
2053164 6143250 21 2 40 25 10 48 29 5263041 2013564 38 15 44 25 6 35 12  
5316420 3250614 39 24 13 43 35 16 5 4152630 5642013 34 14 40 17 43 23 4  
1642053 0614325 8 49 30 19 4 38 27 3041526 0135642 22 2 32 13 42 19 45  
4205316 4325061 33 18 3 41 22 14 44 2630415 6420135 21 47 24 1 30 11 41

[ 97] 9/H 2/L 97# -> 1: 10/H 121/L 1324#  
0645312 0531642 1 48 32 37 28 12 17 0432651 4321065 5 32 24 16 43 42 13  
1206453 3164205 11 16 7 47 31 36 27 3265104 0654321 22 21 48 40 11 3 30  
5312064 6420531 42 26 10 15 6 46 30 6510432 3210654 46 38 9 1 35 27 19  
6453120 2053164 45 29 41 25 9 21 5 1043265 6543210 14 6 33 25 17 44 36  
2064531 5316420 20 4 44 35 40 24 8 4326510 2106543 31 23 15 49 41 12 4  
3120645 1642053 23 14 19 3 43 34 39 2651043 5432106 20 47 39 10 2 29 28  
4531206 4205316 33 38 22 13 18 2 49 5104326 1065432 37 8 7 34 26 18 45



-> 2: 37/H 192/L	3312#	-> 3: 9/H 70/L	872#
1630524 6012345 14 43 23 3 39 19 34		0645312 2514036 3 48 30 40 22 11 21	
3052416 4560123 26 6 42 15 30 10 46		1206453 4036251 12 15 4 49 31 41 23	
5241630 2345601 38 18 33 13 49 22 2		5312064 6251403 42 24 13 16 5 43 32	
4163052 0123456 29 9 45 25 5 41 21		6453120 1403625 44 33 36 25 14 17 6	
6305241 5601234 48 28 1 37 17 32 12		2064531 3625140 18 7 45 34 37 26 8	
0524163 3456012 4 40 20 35 8 44 24		3120645 5140362 27 9 19 1 46 35 38	
2416305 1234560 16 31 11 47 27 7 36		4531206 0362514 29 39 28 10 20 2 47	
-> 4: 10/H 144/L	1668#	-> 5: 37/H 50/L	2528#
0432651 5140362 6 30 26 15 46 42 10		1630524 1350246 9 46 27 1 38 19 35	
3265104 6251403 28 17 48 37 12 1 32		3052416 2461350 24 5 42 16 32 13 43	
6510432 0362514 43 39 14 3 34 23 19		5241630 3502461 39 20 29 10 47 28 2	
1043265 1403625 9 5 29 25 21 45 41		4163052 4613502 33 14 44 25 6 36 17	
4326510 2514036 31 27 16 47 36 11 7		6305241 5024613 48 22 3 40 21 30 11	
2651043 3625140 18 49 38 13 2 33 22		0524163 6135024 7 37 18 34 8 45 26	
5104326 4036251 40 8 4 35 24 20 44		2416305 0246135 15 31 12 49 23 4 41	
. . . . .			
[121] 9/H 10/L	121#	-> 1: 10/H 153/L	1708#
0645312 0432651 1 47 32 38 28 13 16		0432651 5312064 6 32 23 17 43 42 12	
1206453 3265104 11 17 7 48 30 36 26		3265104 0645312 22 21 47 41 11 2 31	
5312064 6510432 42 27 9 15 5 46 31		6510432 3120645 46 37 10 1 35 26 20	
6453120 1043265 44 29 40 25 10 21 6		1043265 6453120 14 5 34 25 16 45 36	
2064531 4326510 19 4 45 35 41 23 8		4326510 1206453 30 24 15 49 40 13 4	
3120645 2651043 24 14 20 2 43 33 39		2651043 4531206 19 48 39 9 3 29 28	
4531206 5104326 34 37 22 12 18 3 49		5104326 2064531 38 8 7 33 27 18 44	
-> 2: 37/H 184/L	3300#	-> 3: 9/H 39/L	488#
1630524 6021354 14 43 24 2 39 20 33		0645312 1425036 2 47 31 41 22 11 21	
3052416 5460213 27 5 42 15 31 9 46		1206453 5036142 13 15 4 49 30 40 24	
5241630 1354602 37 18 34 12 49 22 3		5312064 6142503 42 23 12 17 6 43 32	
4163052 0213546 29 10 44 25 6 40 21		6453120 2503614 45 34 36 25 14 16 5	
6305241 4602135 47 28 1 38 16 32 13		2064531 3614250 18 7 44 33 38 27 8	
0524163 3546021 4 41 19 35 8 45 23		3120645 4250361 26 10 20 1 46 35 37	
2416305 2135460 17 30 11 48 26 7 36		4531206 0361425 29 39 28 9 19 3 48	
-> 4: 10/H 112/L	1284#	-> 5: 37/H 82/L	2720#
0432651 4250361 5 31 27 15 46 42 9		1630524 2340156 10 46 26 1 37 20 35	
3265104 6142503 28 16 47 38 13 1 32		3052416 1562340 23 6 42 17 32 12 43	
6510432 0361425 43 39 14 2 33 24 20		5241630 3401562 39 19 29 9 48 28 3	
1043265 2503614 10 6 29 25 21 44 40		4163052 5623401 34 14 45 25 5 36 16	
4326510 1425036 30 26 17 48 36 11 7		6305241 4015623 47 22 2 41 21 31 11	
2651043 3614250 18 49 37 12 3 34 22		0524163 6234015 7 38 18 33 8 44 27	
5104326 5036142 41 8 4 35 23 19 45		2416305 0156234 15 30 13 49 24 4 40	
. . . . .			
[145] 9/H 18/L	145#	-> 1: 10/H 77/L	898#
0645312 0361245 1 46 35 37 24 12 20		0432651 2604135 3 35 22 19 44 39 13	
1206453 2450361 10 19 6 43 32 42 23		3265104 4135260 26 16 46 41 10 7 29	
5312064 3612450 39 28 9 17 5 48 29		6510432 5260413 48 38 14 1 33 23 18	
6453120 4503612 47 34 36 25 14 16 3		1043265 0413526 8 5 30 25 20 45 42	
2064531 6124503 21 2 45 33 41 22 11		4326510 3526041 32 27 17 49 36 12 2	
3120645 5036124 27 8 18 7 44 31 40		2651043 6041352 21 43 40 9 4 34 24	
4531206 1245036 30 38 26 13 15 4 49		5104326 1352604 37 11 6 31 28 15 47	
-> 2: 37/H 20/L	2337#	-> 3: 9/H 175/L	2049#
1630524 0156432 8 44 27 7 40 18 31		0645312 6305421 7 46 29 41 26 10 16	
3052416 6432015 28 5 39 17 29 9 48		1206453 4216305 12 17 2 49 32 36 27	
5241630 2015643 38 15 30 13 49 26 4		5312064 3054216 39 22 13 19 3 44 35	
4163052 5643201 34 14 47 25 3 36 16		6453120 2163054 45 30 42 25 8 20 5	
6305241 3201564 46 24 1 37 20 35 12		2064531 0542163 15 6 47 31 37 28 11	
0524163 1564320 2 41 21 33 11 45 22		3120645 1630542 23 14 18 1 48 33 38	
2416305 4320156 19 32 10 43 23 6 42		4531206 5421630 34 40 24 9 21 4 43	
-> 4: 10/H 116/L	1302#	-> 5: 37/H 173/L	3286#
0432651 4062531 5 29 28 17 48 39 9		1630524 6510234 14 48 23 1 38 18 33	
3265104 2531406 24 20 46 37 12 1 35		3052416 0234651 22 3 39 19 35 13 44	
6510432 1406253 44 40 8 7 31 27 18		5241630 4651023 40 21 34 9 43 24 4	
1043265 6253140 14 3 34 25 16 47 36		4163052 1023465 30 8 45 25 5 42 20	
4326510 3140625 32 23 19 43 42 10 6		6305241 3465102 46 26 7 41 16 29 10	

2651043 0625314 15 49 38 13 4 30 26 0524163 5102346 6 37 15 31 11 47 28  
5104326 5314062 41 11 2 33 22 21 45 2416305 2346510 17 32 12 49 27 2 36

[169] 9/H 26/L 169# -> 1: 10/H 45/L 514#  
0645312 0362154 1 46 35 38 23 13 19 0432651 1605234 2 35 22 20 45 39 12  
1206453 1540362 9 20 5 43 32 42 24 3265104 5234160 27 17 46 40 9 7 29  
5312064 3621540 39 28 10 16 6 47 29 6510432 4160523 47 37 14 1 34 24 18  
6453120 5403621 48 33 36 25 14 17 2 1043265 0523416 8 6 31 25 19 44 42  
2064531 6215403 21 3 44 34 40 22 11 4326510 3416052 32 26 16 49 36 13 3  
3120645 4036215 26 8 18 7 45 30 41 2651043 6052341 21 43 41 10 4 33 23  
4531206 2154036 31 37 27 12 15 4 49 5104326 2341605 38 11 5 30 28 15 48

-> 2: 37/H 27/L 2349# -> 3: 9/H 167/L 2025#  
1630524 0246531 8 45 26 7 41 18 30 0645312 6304512 7 46 29 40 27 9 17  
3052416 6531024 28 6 39 16 29 10 47 1206453 5126304 13 16 3 49 32 36 26  
5241630 1024653 37 15 31 12 49 27 4 5312064 3045126 39 22 12 20 2 45 35  
4163052 4653102 33 14 48 25 2 36 17 6453120 1263045 44 31 42 25 8 19 6  
6305241 3102465 46 23 1 38 19 35 13 2064531 0451263 15 5 48 30 38 28 11  
0524163 2465310 3 40 21 34 11 44 22 3120645 2630451 24 14 18 1 47 34 37  
2416305 5310246 20 32 9 43 24 5 42 4531206 4512630 33 41 23 10 21 4 43

-> 4: 10/H 148/L 1686# -> 5: 37/H 166/L 3274#  
0432651 5061432 6 29 28 16 47 39 10 1630524 6420135 14 47 24 1 37 18 34  
3265104 1432506 23 19 46 38 13 1 35 3052416 0135642 22 2 39 20 35 12 45  
6510432 2506143 45 41 8 7 30 26 18 5241630 5642013 41 21 33 10 43 23 4  
1043265 6143250 14 2 33 25 17 48 36 4163052 2013564 31 8 44 25 6 42 19  
4326510 3250614 32 24 20 43 42 9 5 6305241 3564201 46 27 7 40 17 29 9  
2651043 0614325 15 49 37 12 4 31 27 0524163 4201356 5 38 15 30 11 48 28  
5104326 4325061 40 11 3 34 22 21 44 2416305 1356420 16 32 13 49 26 3 36

[193] 17/H 2/L 193#|R|C|P\P/ -> 1: 18/H 124/L 1422#|R|C|P\P/ -> 2: 33/H 192/L 3306#|R|C|P\P/  
1 48 18 37 28 12 31|0|0|0\0/ 5 22 46 14 17 34 37|0|0|0\0/ 14 43 23 3 39 33 20|0|0|0\0/  
11 30 7 47 17 36 27|0|0|0\0/ 18 35 38 6 23 47 8|0|0|0\0/ 26 6 42 29 16 10 46|0|0|0\0/  
42 26 10 29 6 46 16|0|0|0\0/ 24 48 9 19 29 39 7|0|0|0\0/ 38 32 19 13 49 22 2|0|0|0\0/  
45 15 41 25 9 35 5|0|0|0\0/ 30 40 1 25 49 10 20|0|0|0\0/ 15 9 45 25 5 41 35|0|0|0\0/  
34 4 44 21 40 24 8|0|0|0\0/ 43 11 21 31 41 2 26|0|0|0\0/ 48 28 1 37 31 18 12|0|0|0\0/  
23 14 33 3 43 20 39|0|0|0\0/ 42 3 27 44 12 15 32|0|0|0\0/ 4 40 34 21 8 44 24|0|0|0\0/  
19 38 22 13 32 2 49|0|0|0\0/ 13 16 33 36 4 28 45|0|0|0\0/ 30 17 11 47 27 7 36|0|0|0\0/

-> 3: 17/H 70/L 968#|R|C|P\P/ -> 4: 18/H 141/L 1762#|R|C|P\P/ -> 5: 33/H 50/L 2522#|R|C|P\P/  
3 48 16 40 22 11 35|0|0|0\0/ 6 28 43 9 17 32 40|0|0|0\0/ 9 46 27 1 38 33 21|0|0|0\0/  
12 29 4 49 17 41 23|0|0|0\0/ 16 31 39 5 27 49 8|0|0|0\0/ 24 5 42 30 18 13 43|0|0|0\0/  
42 24 13 30 5 43 18|0|0|0\0/ 26 48 14 15 30 38 4|0|0|0\0/ 39 34 15 10 47 28 2|0|0|0\0/  
44 19 36 25 14 31 6|0|0|0\0/ 29 37 3 25 47 13 21|0|0|0\0/ 19 14 44 25 6 36 31|0|0|0\0/  
32 7 45 20 37 26 8|0|0|0\0/ 46 12 20 35 36 2 24|0|0|0\0/ 48 22 3 40 35 16 11|0|0|0\0/  
27 9 33 1 46 21 38|0|0|0\0/ 42 1 23 45 11 19 34|0|0|0\0/ 7 37 32 20 8 45 26|0|0|0\0/  
15 39 28 10 34 2 47|0|0|0\0/ 10 18 33 41 7 22 44|0|0|0\0/ 29 17 12 49 23 4 41|0|0|0\0/

[217] 17/H 10/L 217#|R|C|P\P/ -> 1: 18/H 156/L 1806#|R|C|P\P/ -> 2: 33/H 184/L 3294#|R|C|P\P/  
1 47 18 38 28 13 30|0|0|0\0/ 6 22 46 14 16 33 38|0|0|0\0/ 14 43 24 2 39 34 19|0|0|0\0/  
11 31 7 48 16 36 26|0|0|0\0/ 18 35 37 5 24 48 8|0|0|0\0/ 27 5 42 29 17 9 46|0|0|0\0/  
42 27 9 29 5 46 17|0|0|0\0/ 23 47 10 20 29 39 7|0|0|0\0/ 37 32 20 12 49 22 3|0|0|0\0/  
44 15 40 25 10 35 6|0|0|0\0/ 31 41 1 25 49 9 19|0|0|0\0/ 15 10 44 25 6 40 35|0|0|0\0/  
33 4 45 21 41 23 8|0|0|0\0/ 43 11 21 30 40 3 27|0|0|0\0/ 47 28 1 38 30 18 13|0|0|0\0/  
24 14 34 2 43 19 39|0|0|0\0/ 42 2 26 45 13 15 32|0|0|0\0/ 4 41 33 21 8 45 23|0|0|0\0/  
20 37 22 12 32 3 49|0|0|0\0/ 12 17 34 36 4 28 44|0|0|0\0/ 31 16 11 48 26 7 36|0|0|0\0/

-> 3: 17/H 39/L 584#|R|C|P\P/ -> 4: 18/H 109/L 1378#|R|C|P\P/ -> 5: 33/H 82/L 2714#|R|C|P\P/  
2 47 17 41 22 11 35|0|0|0\0/ 5 28 43 10 16 32 41|0|0|0\0/ 10 46 26 1 37 34 21|0|0|0\0/  
13 29 4 49 16 40 24|0|0|0\0/ 17 30 39 6 26 49 8|0|0|0\0/ 23 6 42 31 18 12 43|0|0|0\0/  
42 23 12 31 6 43 18|0|0|0\0/ 27 47 14 15 31 37 4|0|0|0\0/ 39 33 15 9 48 28 3|0|0|0\0/  
45 20 36 25 14 30 5|0|0|0\0/ 29 38 2 25 48 12 21|0|0|0\0/ 20 14 45 25 5 36 30|0|0|0\0/  
32 7 44 19 38 27 8|0|0|0\0/ 46 13 19 35 36 3 23|0|0|0\0/ 47 22 2 41 35 17 11|0|0|0\0/  
26 10 34 1 46 21 37|0|0|0\0/ 42 1 24 44 11 20 33|0|0|0\0/ 7 38 32 19 8 44 27|0|0|0\0/  
15 39 28 9 33 3 48|0|0|0\0/ 9 18 34 40 7 22 45|0|0|0\0/ 29 16 13 49 24 4 40|0|0|0\0/

[241] 17/H 18/L 241#|R|C|P\P/ -> 1: 18/H 79/L 996#|R|C|P\P/ -> 2: 33/H 20/L 2331#|R|C|P\P/  
1 46 21 37 24 12 34|0|0|0\0/ 3 26 48 8 18 35 37|0|0|0\0/ 8 44 27 7 40 32 17|0|0|0\0/

10 33 6 43 18 42 23 0 0 0\0/	21 30 38 5 27 43 11 0 0 0\0/	28 5 39 31 15 9 48 0 0 0\0/
39 28 9 31 5 48 15 0 0 0\0/	22 46 14 16 31 40 6 0 0 0\0/	38 29 16 13 49 26 4 0 0 0\0/
47 20 36 25 14 30 3 0 0 0\0/	33 41 1 25 49 9 17 0 0 0\0/	20 14 47 25 3 36 30 0 0 0\0/
35 2 45 19 41 22 11 0 0 0\0/	44 10 19 34 36 4 28 0 0 0\0/	46 24 1 37 34 21 12 0 0 0\0/
27 8 32 7 44 17 40 0 0 0\0/	39 7 23 45 12 20 29 0 0 0\0/	2 41 35 19 11 45 22 0 0 0\0/
16 38 26 13 29 4 49 0 0 0\0/	13 15 32 42 2 24 47 0 0 0\0/	33 18 10 43 23 6 42 0 0 0\0/
-> 3: 17/H 175/L 2145# R C P\P/		
7 46 15 41 26 10 30 0 0 0\0/	5 24 44 14 18 29 41 0 0 0\0/	14 48 23 1 38 32 19 0 0 0\0/
12 31 2 49 18 36 27 0 0 0\0/	15 34 40 3 23 49 11 0 0 0\0/	22 3 39 33 21 13 44 0 0 0\0/
39 22 13 33 3 44 21 0 0 0\0/	28 46 8 20 33 38 2 0 0 0\0/	40 35 20 9 43 24 4 0 0 0\0/
45 16 42 25 8 34 5 0 0 0\0/	31 37 7 25 43 13 19 0 0 0\0/	16 8 45 25 5 42 34 0 0 0\0/
29 6 47 17 37 28 11 0 0 0\0/	48 12 17 30 42 4 22 0 0 0\0/	46 26 7 41 30 15 10 0 0 0\0/
23 14 32 1 48 19 38 0 0 0\0/	39 1 27 47 10 16 35 0 0 0\0/	6 37 29 17 11 47 28 0 0 0\0/
20 40 24 9 35 4 43 0 0 0\0/	9 21 32 36 6 26 45 0 0 0\0/	31 18 12 49 27 2 36 0 0 0\0/
. . . . .		
[265] 17/H 26/L 265# R C P\P/		
1 46 21 38 23 13 33 0 0 0\0/	2 27 47 8 18 35 38 0 0 0\0/	8 45 26 7 41 32 16 0 0 0\0/
9 34 5 43 18 42 24 0 0 0\0/	21 31 37 6 26 43 11 0 0 0\0/	28 6 39 30 15 10 47 0 0 0\0/
39 28 10 30 6 47 15 0 0 0\0/	22 46 14 17 30 41 5 0 0 0\0/	37 29 17 12 49 27 4 0 0 0\0/
48 19 36 25 14 31 2 0 0 0\0/	34 40 1 25 49 10 16 0 0 0\0/	19 14 48 25 2 36 31 0 0 0\0/
35 3 44 20 40 22 11 0 0 0\0/	45 9 20 33 36 4 28 0 0 0\0/	46 23 1 38 33 21 13 0 0 0\0/
26 8 32 7 45 16 41 0 0 0\0/	39 7 24 44 13 19 29 0 0 0\0/	3 40 35 20 11 44 22 0 0 0\0/
17 37 27 12 29 4 49 0 0 0\0/	12 15 32 42 3 23 48 0 0 0\0/	34 18 9 43 24 5 42 0 0 0\0/
-> 3: 17/H 167/L 2121# R C P\P/		
7 46 15 40 27 9 31 0 0 0\0/	6 23 45 14 18 29 40 0 0 0\0/	14 47 24 1 37 32 20 0 0 0\0/
13 30 3 49 18 36 26 0 0 0\0/	15 33 41 2 24 49 11 0 0 0\0/	22 2 39 34 21 12 45 0 0 0\0/
39 22 12 34 2 45 21 0 0 0\0/	28 46 8 19 34 37 3 0 0 0\0/	41 35 19 10 43 23 4 0 0 0\0/
44 17 42 25 8 33 6 0 0 0\0/	30 38 7 25 43 12 20 0 0 0\0/	17 8 44 25 6 42 33 0 0 0\0/
29 5 48 16 38 28 11 0 0 0\0/	47 13 16 31 42 4 22 0 0 0\0/	46 27 7 40 31 15 9 0 0 0\0/
24 14 32 1 47 20 37 0 0 0\0/	39 1 26 48 9 17 35 0 0 0\0/	5 38 29 16 11 48 28 0 0 0\0/
19 41 23 10 35 4 43 0 0 0\0/	10 21 32 36 5 27 44 0 0 0\0/	30 18 13 49 26 3 36 0 0 0\0/
. . . . .		
[289] 25/H 2/L 289# R C P\P/		
1 48 11 30 28 19 38 0 0 0\0/	5 22 46 21 10 41 30 0 0 0\0/	13 46 2 42 19 24 29 0 0 0\0/
18 37 7 47 10 29 27 0 0 0\0/	11 42 31 6 23 47 15 0 0 0\0/	40 17 22 34 11 44 7 0 0 0\0/
35 26 17 36 6 46 9 0 0 0\0/	24 48 16 12 36 32 7 0 0 0\0/	32 9 49 5 38 15 27 0 0 0\0/
45 8 34 25 16 42 5 0 0 0\0/	37 33 1 25 49 17 13 0 0 0\0/	3 36 20 25 30 14 47 0 0 0\0/
41 4 44 14 33 24 15 0 0 0\0/	43 18 14 38 34 2 26 0 0 0\0/	23 35 12 45 1 41 18 0 0 0\0/
23 21 40 3 43 13 32 0 0 0\0/	35 3 27 44 19 8 39 0 0 0\0/	43 6 39 16 28 33 10 0 0 0\0/
12 31 22 20 39 2 49 0 0 0\0/	20 9 40 29 4 28 45 0 0 0\0/	21 26 31 8 48 4 37 0 0 0\0/
-> 3: 25/H 70/L 1064# R C P\P/		
3 48 9 33 22 18 42 0 0 0\0/	6 28 43 16 10 39 33 0 0 0\0/	14 43 2 38 18 26 34 0 0 0\0/
19 36 4 49 10 34 23 0 0 0\0/	9 38 32 5 27 49 15 0 0 0\0/	40 20 28 29 9 45 4 0 0 0\0/
35 24 20 37 5 43 11 0 0 0\0/	26 48 21 8 37 31 4 0 0 0\0/	31 11 47 6 42 15 23 0 0 0\0/
44 12 29 25 21 38 6 0 0 0\0/	36 30 3 25 47 20 14 0 0 0\0/	1 37 17 25 33 13 49 0 0 0\0/
39 7 45 13 30 26 15 0 0 0\0/	46 19 13 42 29 2 24 0 0 0\0/	27 35 8 44 3 39 19 0 0 0\0/
27 16 40 1 46 14 31 0 0 0\0/	35 1 23 45 18 12 41 0 0 0\0/	46 5 41 21 22 30 10 0 0 0\0/
8 32 28 17 41 2 47 0 0 0\0/	17 11 40 34 7 22 44 0 0 0\0/	16 24 32 12 48 7 36 0 0 0\0/
. . . . .		
[313] 25/H 10/L 313# R C P\P/		
1 47 11 31 28 20 37 0 0 0\0/	6 22 46 21 9 40 31 0 0 0\0/	12 46 3 42 20 23 29 0 0 0\0/
18 38 7 48 9 29 26 0 0 0\0/	11 42 30 5 24 48 15 0 0 0\0/	41 16 22 33 11 45 7 0 0 0\0/
35 27 16 36 5 46 10 0 0 0\0/	23 47 17 13 36 32 7 0 0 0\0/	32 10 49 6 37 15 26 0 0 0\0/
44 8 33 25 17 42 6 0 0 0\0/	38 34 1 25 49 16 12 0 0 0\0/	2 36 19 25 31 14 48 0 0 0\0/
40 4 45 14 34 23 15 0 0 0\0/	43 18 14 37 33 3 27 0 0 0\0/	24 35 13 44 1 40 18 0 0 0\0/
24 21 41 2 43 12 32 0 0 0\0/	35 2 26 45 20 8 39 0 0 0\0/	43 5 39 17 28 34 9 0 0 0\0/
13 30 22 19 39 3 49 0 0 0\0/	19 10 41 29 4 28 44 0 0 0\0/	21 27 30 8 47 4 38 0 0 0\0/
-> 3: 25/H 39/L 680# R C P\P/		
2 47 10 34 22 18 42 0 0 0\0/	5 28 43 17 9 39 34 0 0 0\0/	14 43 3 37 18 27 33 0 0 0\0/
20 36 4 49 9 33 24 0 0 0\0/	10 37 32 6 26 49 15 0 0 0\0/	41 19 28 29 10 44 4 0 0 0\0/
35 23 19 38 6 43 11 0 0 0\0/	27 47 21 8 38 30 4 0 0 0\0/	30 11 48 5 42 15 24 0 0 0\0/
45 13 29 25 21 37 5 0 0 0\0/	36 31 2 25 48 19 14 0 0 0\0/	1 38 16 25 34 12 49 0 0 0\0/
39 7 44 12 31 27 15 0 0 0\0/	46 20 12 42 29 3 23 0 0 0\0/	26 35 8 45 2 39 20 0 0 0\0/
26 17 41 1 46 14 30 0 0 0\0/	35 1 24 44 18 13 40 0 0 0\0/	46 6 40 21 22 31 9 0 0 0\0/

8 32 28 16 40 3 48|0|0|0\0/ 16 11 41 33 7 22 45|0|0|0\0/ 17 23 32 13 47 7 36|0|0|0\0/  
. . . . .

[337] 25/H 18/L 337#|R|C|P\P/ -> 1: 26/H 79/L 1092#|R|C|P\P/ -> 2: 45/H 78/L 2758#|R|C|P\P/  
1 46 14 30 24 19 41|0|0|0\0/ 3 26 48 15 11 42 30|0|0|0\0/ 10 48 4 37 19 22 35|0|0|0\0/  
17 40 6 43 11 35 23|0|0|0\0/ 14 37 31 5 27 43 18|0|0|0\0/ 39 16 26 29 14 45 6|0|0|0\0/  
32 28 16 38 5 48 8|0|0|0\0/ 22 46 21 9 38 33 6|0|0|0\0/ 33 8 49 3 41 18 23|0|0|0\0/  
47 13 29 25 21 37 3|0|0|0\0/ 40 34 1 25 49 16 10|0|0|0\0/ 7 38 20 25 30 12 43|0|0|0\0/  
42 2 45 12 34 22 18|0|0|0\0/ 44 17 12 41 29 4 28|0|0|0\0/ 27 32 9 47 1 42 17|0|0|0\0/  
27 15 39 7 44 10 33|0|0|0\0/ 32 7 23 45 19 13 36|0|0|0\0/ 44 5 36 21 24 34 11|0|0|0\0/  
9 31 26 20 36 4 49|0|0|0\0/ 20 8 39 35 2 24 47|0|0|0\0/ 15 28 31 13 46 2 40|0|0|0\0/  
-> 3: 25/H 175/L 2241#|R|C|P\P/ -> 4: 26/H 114/L 1492#|R|C|P\P/ -> 5: 45/H 115/L 2961#|R|C|P\P/  
7 46 8 34 26 17 37|0|0|0\0/ 5 24 44 21 11 36 34|0|0|0\0/ 12 44 4 41 17 28 29|0|0|0\0/  
19 38 2 49 11 29 27|0|0|0\0/ 8 41 33 3 23 49 18|0|0|0\0/ 39 20 24 35 8 47 2|0|0|0\0/  
32 22 20 40 3 44 14|0|0|0\0/ 28 46 15 13 40 31 2|0|0|0\0/ 31 14 43 5 37 18 27|0|0|0\0/  
45 9 35 25 15 41 5|0|0|0\0/ 38 30 7 25 43 20 12|0|0|0\0/ 1 40 16 25 34 10 49|0|0|0\0/  
36 6 47 10 30 28 18|0|0|0\0/ 48 19 10 37 35 4 22|0|0|0\0/ 23 32 13 45 7 36 19|0|0|0\0/  
23 21 39 1 48 12 31|0|0|0\0/ 32 1 27 47 17 9 42|0|0|0\0/ 48 3 42 15 26 30 11|0|0|0\0/  
13 33 24 16 42 4 43|0|0|0\0/ 16 14 39 29 6 26 45|0|0|0\0/ 21 22 33 9 46 6 38|0|0|0\0/  
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[361] 25/H 26/L 361#|R|C|P\P/ -> 1: 26/H 46/L 707#|R|C|P\P/ -> 2: 45/H 47/L 2567#|R|C|P\P/  
1 46 14 31 23 20 40|0|0|0\0/ 2 27 47 15 11 42 31|0|0|0\0/ 9 47 4 38 20 22 35|0|0|0\0/  
16 41 5 43 11 35 24|0|0|0\0/ 14 38 30 6 26 43 18|0|0|0\0/ 39 17 27 29 14 44 5|0|0|0\0/  
32 28 17 37 6 47 8|0|0|0\0/ 22 46 21 10 37 34 5|0|0|0\0/ 34 8 49 2 40 18 24|0|0|0\0/  
48 12 29 25 21 38 2|0|0|0\0/ 41 33 1 25 49 17 9|0|0|0\0/ 7 37 19 25 31 13 43|0|0|0\0/  
42 3 44 13 33 22 18|0|0|0\0/ 45 16 13 40 29 4 28|0|0|0\0/ 26 32 10 48 1 42 16|0|0|0\0/  
26 15 39 7 45 9 34|0|0|0\0/ 32 7 24 44 20 12 36|0|0|0\0/ 45 6 36 21 23 33 11|0|0|0\0/  
10 30 27 19 36 4 49|0|0|0\0/ 19 8 39 35 3 23 48|0|0|0\0/ 15 28 30 12 46 3 41|0|0|0\0/  
-> 3: 25/H 167/L 2217#|R|C|P\P/ -> 4: 26/H 147/L 1877#|R|C|P\P/ -> 5: 45/H 146/L 3152#|R|C|P\P/  
7 46 8 33 27 16 38|0|0|0\0/ 6 23 45 21 11 36 33|0|0|0\0/ 13 45 4 40 16 28 29|0|0|0\0/  
20 37 3 49 11 29 26|0|0|0\0/ 8 40 34 2 24 49 18|0|0|0\0/ 39 19 23 35 8 48 3|0|0|0\0/  
32 22 19 41 2 45 14|0|0|0\0/ 28 46 15 12 41 30 3|0|0|0\0/ 30 14 43 6 38 18 26|0|0|0\0/  
44 10 35 25 15 40 6|0|0|0\0/ 37 31 7 25 43 19 13|0|0|0\0/ 1 41 17 25 33 9 49|0|0|0\0/  
36 5 48 9 31 28 18|0|0|0\0/ 47 20 9 38 35 4 22|0|0|0\0/ 24 32 12 44 7 36 20|0|0|0\0/  
24 21 39 1 47 13 30|0|0|0\0/ 32 1 26 48 16 10 42|0|0|0\0/ 47 2 42 15 27 31 11|0|0|0\0/  
12 34 23 17 42 4 43|0|0|0\0/ 17 14 39 29 5 27 44|0|0|0\0/ 21 22 34 10 46 5 37|0|0|0\0/  
. . . . .

[385] 1/H 33/L 385#|R|C|P\P/ -> 1: 2/H 113/L 1204#|R|C|P\P/ -> 2: 49/H 19/L 2426#|R|C|P\P/  
2 49 39 29 27 19 10|0|0|0\0/ 5 39 24 8 44 34 21|0|0|0\0/ 8 38 18 47 28 6 30|0|0|0\0/  
18 8 6 47 38 30 28|0|0|0\0/ 23 13 49 33 18 3 36|0|0|0\0/ 4 33 14 41 16 43 24|0|0|0\0/  
34 26 17 9 7 46 36|0|0|0\0/ 46 31 15 2 41 28 12|0|0|0\0/ 49 27 2 29 10 39 19|0|0|0\0/  
45 37 35 25 15 13 5|0|0|0\0/ 20 7 40 25 10 43 30|0|0|0\0/ 37 15 45 25 5 35 13|0|0|0\0/  
14 4 43 41 33 24 16|0|0|0\0/ 38 22 9 48 35 19 4|0|0|0\0/ 31 11 40 21 48 23 1|0|0|0\0/  
22 20 12 3 44 42 32|0|0|0\0/ 14 47 32 17 1 37 27|0|0|0\0/ 26 7 34 9 36 17 46|0|0|0\0/  
40 31 23 21 11 1 48|0|0|0\0/ 29 16 6 42 26 11 45|0|0|0\0/ 20 44 22 3 32 12 42|0|0|0\0/  
-> 3: 1/H 77/L 799#|R|C|P\P/ -> 4: 2/H 176/L 1956#|R|C|P\P/ -> 5: 49/H 36/L 2595#|R|C|P\P/  
3 49 36 33 23 18 13|0|0|0\0/ 7 36 26 9 46 34 17|0|0|0\0/ 9 38 19 48 22 4 35|0|0|0\0/  
19 9 4 48 38 35 22|0|0|0\0/ 27 10 49 29 19 2 39|0|0|0\0/ 6 29 11 42 16 45 26|0|0|0\0/  
34 24 21 8 5 44 39|0|0|0\0/ 44 32 20 3 42 22 12|0|0|0\0/ 49 23 3 33 13 36 18|0|0|0\0/  
43 40 30 25 20 10 7|0|0|0\0/ 15 5 37 25 13 45 35|0|0|0\0/ 40 20 43 25 7 30 10|0|0|0\0/  
11 6 45 42 29 26 16|0|0|0\0/ 38 28 8 47 30 18 6|0|0|0\0/ 32 14 37 17 47 27 1|0|0|0\0/  
28 15 12 2 46 41 31|0|0|0\0/ 11 48 31 21 1 40 23|0|0|0\0/ 24 5 34 8 39 21 44|0|0|0\0/  
37 32 27 17 14 1 47|0|0|0\0/ 33 16 4 41 24 14 43|0|0|0\0/ 15 46 28 2 31 12 41|0|0|0\0/  
. . . . .

[545] 2/H 67/L 773#|R|C|P\P/ -> 1: 49/H 47/L 2609#|R|C|P\P/ -> 2: 1/H 125/L 1231#|R|C|P\P/  
3 39 26 9 49 29 20|0|0|0\0/ 9 40 18 45 27 1 35|0|0|0\0/ 5 48 37 31 28 18 8|0|0|0\0/  
28 8 48 31 18 5 37|0|0|0\0/ 4 31 13 36 21 44 26|0|0|0\0/ 17 14 4 43 40 34 23|0|0|0\0/  
46 33 16 7 36 27 10|0|0|0\0/ 48 22 7 30 12 39 17|0|0|0\0/ 29 26 20 9 3 49 39|0|0|0\0/  
15 6 38 25 12 44 35|0|0|0\0/ 42 16 47 25 3 34 8|0|0|0\0/ 44 38 35 25 15 12 6|0|0|0\0/  
40 23 14 43 34 17 4|0|0|0\0/ 33 11 38 20 43 28 2|0|0|0\0/ 11 1 47 41 30 24 21|0|0|0\0/  
13 45 32 19 2 42 22|0|0|0\0/ 24 6 29 14 37 19 46|0|0|0\0/ 27 16 10 7 46 36 33|0|0|0\0/  
30 21 1 41 24 11 47|0|0|0\0/ 15 49 23 5 32 10 41|0|0|0\0/ 42 32 22 19 13 2 45|0|0|0\0/  
-> 3: 2/H 147/L 1589#|R|C|P\P/ -> 4: 49/H 166/L 3365#|R|C|P\P/ -> 5: 1/H 165/L 1927#|R|C|P\P/  
6 37 24 14 46 29 19|0|0|0\0/ 14 40 17 43 23 4 34|0|0|0\0/ 7 48 39 30 22 17 12|0|0|0\0/  
22 12 48 30 17 7 39|0|0|0\0/ 1 30 11 41 21 47 24|0|0|0\0/ 18 9 1 45 40 35 27|0|0|0\0/



