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NO. 29

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		5 2 1 4 3 4	4	1- 9- 17- 18- 6B 14B 5B 21B

2	1	3	2	4	1	5	6	3- 5B	7- 7B	19- 6B	20- 22B	23- 8B	27- 14B																			
		3	2	5	1	4	21	4- 5B	7- 15B	8- 13B	16- 14B	17- 18B	18- 2B	19- 22B	20- 6B	21- 26B	22- 10B	23- 16B	23- 24B	23- 28B	23- 30B	23- 31B	23- 32B	24- 14B	28- 14B	30- 14B	31- 14B	32- 14B				
		4	2	3	1	5	4	1- 17B	3- 21B	4- 22B	7- 23B																					
		4	2	5	1	3	13	1- 18B	3- 22B	4- 21B	5- 26B	7- 16B	7- 24B	7- 28B	7- 30B	7- 31B	7- 32B	8- 29B	15- 14B	23- 15B												
		5	2	3	1	4	7	4- 6B	12- 14B	17- 17B	18- 1B	19- 21B	20- 5B	23- 23B																		
		5	2	4	1	3	6	3- 6B	7- 8B	11- 14B	19- 5B	20- 21B	23- 7B																			
2	1	3	2	4	5	1	3	19- 2B	20- 18B	23- 4B																						
		3	2	5	4	1	6	17- 2B	18- 18B	21- 10B	22- 26B	23- 12B	24- 14B																			
		4	2	3	5	1	2	2- 17B	4- 18B																							
		4	2	5	3	1	6	2- 18B	4- 17B	6- 26B	7- 27B	8- 25B	23- 11B																			
		5	2	3	4	1	2	17- 1B	18- 17B																							
		5	2	4	3	1	3	19- 1B	20- 17B	23- 3B																						
2	1	3	4	2	1	5	21	3- 7B	7- 5B	11- 23B	13- 17B	15- 21B	16- 22B	19- 8B	23- 6B	24- 22B	25- 26B	27- 16B	27- 24B	27- 28B	27- 30B	27- 31B	27- 32B	27- 22B	28- 18B	29- 22B	30- 22B	31- 22B	32- 22B			
		3	5	2	1	4	22	3- 15B	4- 13B	8- 5B	16- 6B	17- 26B	18- 10B	19- 16B	19- 24B	19- 28B	19- 30B	19- 31B	19- 32B	20- 14B	21- 18B	22- 2B	23- 22B	24- 6B	27- 8B	28- 6B	30- 6B	31- 6B	32- 6B			
		4	3	2	1	5	7	3- 23B	5- 17B	7- 21B	11- 7B	15- 5B	27- 15B	8- 22B																		
		4	5	2	1	3	14	1- 26B	3- 16B	3- 24B	3- 28B	3- 30B	3- 31B	3- 32B	4- 29B	5- 18B	7- 22B	8- 21B	11- 8B	15- 6B	19- 15B											
		5	3	2	1	4	14	8- 6B	11- 15B	12- 13B	16- 5B	19- 23B	21- 17B	22- 1B	23- 21B	24- 5B	27- 7B	28- 5B	30- 5B	31- 5B	32- 5B											
		5	4	2	1	3	22	3- 8B	7- 6B	9- 26B	11- 16B	11- 24B	11- 28B	11- 30B	11- 31B	11- 32B	12- 29B	13- 18B	15- 22B	16- 21B	19- 7B	23- 5B	24- 21B	27- 23B	28- 21B	29- 17B	30- 21B	31- 21B	32- 21B			

(X) ENERGIZED
RELAY SWITCHES

EXIT POINTS

RELAY SWITCH
ARRANGEMENT
NO.

	1	2	3	4	5
1	.	.	.	.	.
2	.	.	.	.	X
3	.	.	.	X	.
4	.	.	.	X	X
5	.	.	X	.	.
6	.	.	X	.	X
7	.	.	X	X	.
8	.	.	X	X	X
9	.	X	.	.	.
10	.	X	.	.	X
11	.	X	.	X	.
12	.	X	.	X	X
13	.	X	X	.	.
14	.	X	X	.	X
15	.	X	X	X	.
16	.	X	X	X	X
17	X	.	.	.	.
18	X	.	.	.	X
19	X	.	.	X	.
20	X	.	.	X	X
21	X	.	X	.	.
22	X	.	X	.	X
23	X	.	X	X	.
24	X	.	X	X	X
25	X	X	.	.	.
26	X	X	.	.	X
27	X	X	.	X	.
28	X	X	.	X	X
29	X	X	X	.	.
30	X	X	X	.	X
31	X	X	X	X	.
32	X	X	X	X	X

	1	2	3	4	5
1	2	3	4	5	
1	2	3	5	4	
1	2	4	3	5	
1	2	5	3	4	
1	3	2	4	5	
1	3	2	5	4	
1	4	2	3	5	
1	5	2	3	4	
2	1	3	4	5	
2	1	3	5	4	
2	1	4	3	5	
2	1	5	3	4	
3	1	2	4	5	
3	1	2	5	4	
4	1	2	3	5	
5	1	2	3	4	
5	2	3	4	1	
5	2	3	1	4	
5	2	4	3	1	
5	2	1	3	4	
5	3	2	4	1	
5	3	2	1	4	
5	4	2	3	1	
5	1	2	3	4	
5	1	3	4	2	
5	1	3	2	4	
5	1	4	3	2	
5	1	2	3	4	
5	1	2	4	3	
5	1	2	3	4	
5	1	2	3	4	
5	1	2	3	4	

RESULTS OF FREQUENCY DISTRIBUTION

Of the 120 different permutations possible,

1 does not occur	-	1
1 occurs 1 time	-	1
15 occur 2 times	-	30
10 " 3 "	-	30
15 " 4 "	-	60
5 " 5 "	-	25
20 " 6 "	-	120
15 " 7 "	-	105
1 " 11 "	-	11
5 " 12 "	-	60
5 " 13 "	-	65
10 " 14 "	-	140
1 " 16 "	-	16
5 " 19 "	-	95
6 " 21 "	-	126
4 " 22 "	-	88
1 " 51 "	-	51
<u>1</u>		<u>1024</u>

120 combinations

(X) ENERGIZED
RELAY SWITCHES

EXIT POINTS

RELAY SWITCH
ARRANGEMENT
NO.

	1	3	5	2	4
1B	.	.	.	.	.
3B	.	.	.	.	X
9B	.	.	.	X	.
11B	.	.	.	X	X
2B	.	.	X	.	.
4B	.	.	X	.	X
10B	.	.	X	X	.
12B	.	.	X	X	X
5B	.	X	.	.	.
7B	.	X	.	.	X
13B	.	X	.	X	.
15B	.	X	.	X	X
6B	.	X	X	.	.
8B	.	X	X	.	X
14B	.	X	X	X	.
16B	.	X	X	X	X
17B	X	.	.	.	.
19B	X	.	.	.	X
25B	X	.	.	X	.
27B	X	.	.	X	X
18B	X	.	X	.	.
20B	X	.	X	.	X
26B	X	.	X	X	.
28B	X	.	X	X	X
21B	X	X	.	.	.
23B	X	X	.	.	X
29B	X	X	.	X	.
31B	X	X	.	X	X
22B	X	X	X	.	.
24B	X	X	X	.	X
30B	X	X	X	X	.
32B	X	X	X	X	X

	1	3	5	2	4
1	3	5	2	4	
1	3	5	4	2	
1	3	2	5	4	
1	3	4	5	2	
1	5	3	2	4	
1	5	3	4	2	
1	2	3	5	4	
1	4	3	5	2	
3	1	5	2	4	
3	1	5	4	2	
3	1	2	5	4	
3	1	4	5	2	
5	1	3	2	4	
5	1	3	4	2	
2	1	3	5	4	
4	1	3	5	2	
4	3	5	2	1	
4	3	5	1	2	
4	3	2	5	1	
4	3	1	5	2	
4	5	3	2	1	
4	5	3	1	2	
4	2	3	5	1	
4	1	3	5	2	
4	1	5	2	3	
4	1	5	3	2	
4	1	2	5	3	
4	1	3	5	2	
4	1	3	5	2	
4	1	3	5	2	

EXIT POINTS OF "A"
RESULTING FROM
RELAY SWITCH
ARRANGEMENT NO. 1

RELAY SWITCH
ARRANGEMENT
NO. COMBINED WITH

No. 2

No. 3

No. 4

No. 5

No. 6

No. 7

B

1	1	2	3	5	4	✓
3	1	4	3	5	2	✓
9	1	5	3	2	4	✓
11	1	5	3	4	2	✓
2	1	2	5	3	4	✓
4	1	4	5	3	2	✓
10	1	5	2	3	4	✓
12	1	5	4	3	2	✓
5	3	2	1	5	4	✓
7	3	4	1	5	2	✓
13	3	5	1	2	4	✓
15	3	5	1	4	2	✓
6	5	2	1	3	4	✓
8	5	4	1	3	2	✓
14	2	5	1	3	4	✓
16	4	5	1	3	2	✓
17	4	2	3	5	1	✓
19	4	1	3	5	2	✓
25	4	5	3	2	1	✓
27	4	5	3	1	2	✓
18	4	2	5	3	1	✓
20	4	1	5	3	2	✓
26	4	5	2	3	1	✓
28	4	5	1	3	2	✓
21	4	2	1	5	3	✓
23	4	3	1	5	2	✓
29	4	5	1	2	3	✓
31	4	5	1	3	2	✓
22	4	2	1	3	5	✓
24	4	5	1	3	2	✓
30	4	5	1	3	2	✓
32	4	5	1	3	2	✓

B

1	1	2	4	3	5	✓
3	1	4	2	3	5	✓
9	1	5	4	3	2	✓
11	1	5	2	3	4	✓
2	1	2	4	5	3	✓
4	1	4	2	5	3	✓
10	1	5	4	2	3	✓
12	1	5	2	4	3	✓
5	3	2	4	1	5	✓
7	3	4	2	1	5	✓
13	3	5	4	1	2	✓
15	3	5	2	1	4	✓
6	5	2	4	1	3	✓
8	5	4	2	1	3	✓
14	2	5	4	1	3	✓
16	4	5	2	1	3	✓
17	4	2	1	3	5	✓
19	4	1	2	3	5	✓
25	4	5	1	3	2	✓
27	4	5	2	3	1	✓
18	4	2	1	5	3	✓
20	4	1	2	5	3	✓
26	4	5	1	2	3	✓
28	4	5	2	1	3	✓
21	4	2	3	1	5	✓
23	4	3	2	1	5	✓
29	4	5	3	1	2	✓
31	4	5	2	1	3	✓
22	4	2	5	1	3	✓
24	4	5	2	1	3	✓
30	4	5	2	1	3	✓
32	4	5	2	1	3	✓

B

1	1	2	5	3	4	✓
3	1	4	5	3	2	✓
9	1	5	2	3	4	✓
11	1	5	4	3	2	✓
2	1	2	3	5	4	✓
4	1	4	3	5	2	✓
10	1	5	3	2	4	✓
12	1	5	3	4	2	✓
5	3	2	5	1	4	✓
7	3	4	5	1	2	✓
13	3	5	2	1	4	✓
15	3	5	4	1	2	✓
6	5	2	3	1	4	✓
8	5	4	3	1	2	✓
14	2	5	3	1	4	✓
16	4	5	3	1	2	✓
17	4	2	5	3	1	✓
19	4	1	5	3	2	✓
25	4	5	2	3	1	✓
27	4	5	1	3	2	✓
18	4	2	3	5	1	✓
20	4	1	3	5	2	✓
26	4	5	3	2	1	✓
28	4	5	3	1	2	✓
21	4	2	5	1	3	✓
23	4	3	5	1	2	✓
29	4	5	2	1	3	✓
31	4	5	3	1	2	✓
22	4	2	3	1	5	✓
24	4	5	3	1	2	✓
30	4	5	3	1	2	✓
32	4	5	3	1	2	✓

B

1	1	3	2	4	5	✓
3	1	3	4	2	5	✓
9	1	3	5	4	2	✓
11	1	3	5	2	4	✓
2	1	5	2	4	3	✓
4	1	5	4	2	3	✓
10	1	2	5	4	3	✓
12	1	4	5	2	3	✓
5	3	1	2	4	5	✓
7	3	1	4	2	5	✓
13	3	1	5	4	2	✓
15	3	1	5	2	4	✓
6	5	1	2	4	3	✓
8	5	1	4	2	3	✓
14	2	1	5	4	3	✓
16	4	1	5	2	3	✓
17	4	3	2	1	5	✓
19	4	3	1	2	5	✓
25	4	3	5	1	2	✓
27	4	3	5	2	1	✓
18	4	5	2	1	3	✓
20	4	5	1	2	3	✓
26	4	2	5	1	3	✓
28	4	1	5	2	3	✓
21	4	1	2	3	5	✓
23	4	1	3	2	5	✓
29	4	1	5	3	2	✓
31	4	1	5	2	3	✓
22	4	1	2	5	3	✓
24	4	1	5	2	3	✓
30	4	1	5	2	3	✓
32	4	1	5	2	3	✓

B

1	1	3	2	5	4	✓
3	1	3	4	5	2	✓
9	1	3	5	2	4	✓
11	1	3	5	4	2	✓
2	1	5	2	3	4	✓
4	1	5	4	3	2	✓
10	1	2	5	3	4	✓
12	1	4	5	3	2	✓
5	3	1	2	5	4	✓
7	3	1	4	5	2	✓
13	3	1	5	2	4	✓
15	3	1	5	4	2	✓
6	5	1	2	3	4	✓
8	5	1	4	3	2	✓
14	2	1	5	3	4	✓
16	4	1	5	3	2	✓
17	4	3	2	5	1	✓
19	4	3	1	5	2	✓
25	4	3	5	2	1	✓
27	4	3	5	1	2	✓
18	4	5	2	3	1	✓
20	4	5	1	3	2	✓
26	4	2	5	3	1	✓
28	4	1	5	3	2	✓
21	4	1	2	5	3	✓
23	4	1	3	5	2	✓
29	4	1	5	2	3	✓
31	4	1	5	3	2	✓
22	4	1	2	3	5	✓
24	4	1	5	3	2	✓
30	4	1	5	3	2	✓
32	4	1	5	3	2	✓

B

1	1	4	2	3	5	✓
3	1	2	4	3	5	✓
9	1	4	5	3	2	✓
11	1	2	5	3	4	✓
2	1	4	2	5	3	✓
4	1	2	4	5	3	✓
10	1	4	5	2	3	✓
12	1	2	5	4	3	✓
5	3	4	2	1	5	✓
7	3	2	4	1	5	✓
13	3	4	5	1	2	✓
15	3	2	5	1	4	✓
6	5	4	2	1	3	✓
8	5	2	4	1	3	✓
14	2	4	5	1	3	✓
16	4	2	5	1	3	✓
17	4	1	2	3	5	✓
19	4	2	1	3	5	✓
25	4	1	5	3	2	✓
27	4	2	5	3	1	✓
18	4	1	2	5	3	✓
20	4	2	1	5	3	✓
26	4	1	5	2	3	✓
28	4	2	5	1	3	✓
21	4	3	2	1	5	✓
23	4	2	3	1	5	✓
29	4	3	5	1	2	✓
31	4	2	5	1	3	✓
22	4	5	2	1	3	✓
24	4	2	5	1	3	✓
30	4	2	5	1	3	✓
32	4	2	5	1	3	✓

No. 8

B					
1	1	5	2	3	4
3	1	5	4	3	2
9	1	2	5	3	4
11	1	4	5	3	2
2	1	3	2	5	4
4	1	3	4	5	2
10	1	3	5	2	4
12	1	3	5	4	2
5	3	5	2	1	4
7	3	5	4	1	2
13	3	2	5	1	4
15	3	4	5	1	2
6	5	3	2	1	4
8	5	3	4	1	2
14	2	3	5	1	4
16	4	3	5	1	2
17	4	5	2	3	1
19	4	5	1	3	2
25	4	2	5	3	1
27	4	1	5	3	2
18	4	3	2	5	1
20	4	3	1	5	2
24	4	3	5	2	1
28	4	3	5	1	2
21	4	5	2	1	3
23	4	5	3	1	2
29	4	2	5	1	3
31	4	3	5	1	2
22	4	3	2	1	5
24	4	3	5	1	2
30	4	3	5	1	2
32	4	3	5	1	2

No. 9

B					
1	2	1	3	4	5
3	4	1	3	2	5
9	5	1	3	4	2
11	5	1	3	2	4
2	2	1	5	4	3
4	4	1	5	2	3
10	5	1	2	4	3
12	5	1	4	2	3
5	2	3	1	4	5
7	4	3	1	2	5
13	5	3	1	4	2
15	5	3	1	2	4
6	2	5	1	4	3
8	4	5	1	2	3
14	5	2	1	4	3
16	5	4	1	2	3
17	2	4	3	1	5
19	1	4	3	2	5
25	5	4	3	1	2
27	5	4	3	2	1
18	2	4	5	1	3
20	1	4	5	2	3
26	5	4	2	1	3
28	5	4	1	2	3
21	2	4	1	3	5
23	3	4	1	2	5
29	5	4	1	3	2
31	5	4	1	2	3
22	2	4	1	5	3
24	5	4	1	2	3
30	5	4	1	2	3
32	5	4	1	2	3

No. 10

B					
1	2	1	3	5	4
3	4	1	3	5	2
9	5	1	3	2	4
11	5	1	3	4	2
2	2	1	5	3	4
4	4	1	5	3	2
10	5	1	2	3	4
12	5	1	4	3	2
5	2	3	1	5	4
7	4	3	1	5	2
13	5	3	1	2	4
15	5	3	1	4	2
6	2	5	1	3	4
8	4	5	1	3	2
14	5	2	1	3	4
16	5	4	1	3	2
17	2	4	3	5	1
19	1	4	3	5	2
25	5	4	3	2	1
27	5	4	3	1	2
18	2	4	5	3	1
20	1	4	5	3	2
26	5	4	2	3	1
28	5	4	1	3	2
21	2	4	1	5	3
23	3	4	1	5	2
29	5	4	1	2	3
31	5	4	1	3	2
22	2	4	1	3	5
24	5	4	1	3	2
30	5	4	1	3	2
32	5	4	1	3	2

No. 11

B					
1	2	1	4	3	5
3	4	1	2	3	5
9	5	1	4	3	2
11	5	1	2	3	4
2	2	1	4	5	3
4	4	1	2	5	3
10	5	1	4	2	3
12	5	1	2	4	3
5	2	3	4	1	5
7	4	3	2	1	5
13	5	3	4	1	2
15	5	3	2	1	4
6	2	5	4	1	3
8	4	5	2	1	3
14	5	2	4	1	3
16	5	4	2	1	3
17	2	4	1	3	5
19	1	4	2	3	5
25	5	4	1	3	2
27	5	4	2	3	1
18	2	4	1	5	3
20	1	4	2	5	3
26	5	4	1	2	3
28	5	4	2	1	3
21	2	4	3	1	5
23	3	4	2	1	5
29	5	4	3	1	2
31	5	4	2	1	3
22	2	4	5	1	3
24	5	4	2	1	3
30	5	4	2	1	3
32	5	4	2	1	3

No. 12

B					
1	2	1	5	3	4
3	4	1	5	3	2
9	5	1	2	3	4
11	5	1	4	3	2
2	2	1	3	5	4
4	4	1	3	5	2
10	5	1	3	2	4
12	5	1	3	4	2
5	2	3	5	1	4
7	4	3	5	1	2
13	5	3	2	1	4
15	5	3	4	1	2
6	2	5	3	1	4
8	4	5	3	1	2
14	5	2	3	1	4
16	5	4	3	1	2
17	2	4	5	3	1
19	1	4	5	3	2
25	5	4	2	3	1
27	5	4	1	3	2
18	2	4	3	5	1
20	1	4	3	5	2
26	5	4	3	2	1
28	5	4	3	1	2
21	2	4	5	1	3
23	3	4	5	1	2
29	5	4	2	1	3
31	5	4	3	1	2
22	2	4	3	1	5
24	5	4	3	1	2
30	5	4	3	1	2
32	5	4	3	1	2

No. 13

B					
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3	3	1	4	2	5
9	3	1	5	4	2
11	3	1	5	2	4
2	5	1	2	4	3
4	5	1	4	2	3
10	2	1	5	4	3
12	4	1	5	2	3
5	1	3	2	4	5
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13	1	3	5	4	2
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6	1	5	2	4	3
8	1	5	4	2	3
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17	3	4	2	1	5
19	3	4	1	2	5
25	3	4	5	1	2
27	3	4	5	2	1
18	5	4	2	1	3
20	5	4	1	2	3
26	2	4	5	1	3
28	1	4	5	2	3
21	1	4	2	3	5
23	1	4	3	2	5
29	1	4	5	3	2
31	1	4	5	2	3
22	1	4	2	5	3
24	1	4	5	2	3
30	1	4	5	2	3
32	1	4	5	2	3

No. 14

B					
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9	3	1	5	2	4
11	3	1	5	4	2
2	5	1	2	3	4
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17	3	4	2	5	1
19	3	4	1	5	2
25	3	4	5	2	1
27	3	4	5	1	2
18	5	4	2	3	1
20	5	4	1	3	2
26	2	4	5	3	1
28	1	4	5	3	2
21	1	4	2	5	3
23	1	4	3	5	2
29	1	4	5	2	3
31	1	4	5	3	2
22	1	4	2	3	5
24	1	4	5	3	2
30	1	4	5	3	2
32	1	4	5	3	2

No. 15

No. 16 }
24, 28, 30, 31, 32 }

No. 17

No. 18

No. 19

No. 20

No. 21

B						
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3	2	1	4	3	5	✓
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2	4	1	2	5	3	✓
4	2	1	4	5	3	✓
10	4	1	5	2	3	✓
12	2	1	5	4	3	✓
5	4	3	2	1	5	✓
7	2	3	4	1	5	✓
13	4	3	5	1	2	✓
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19	2	4	1	3	5	✓
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27	2	4	5	3	1	✓
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21	3	4	2	1	5	✓
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24	2	4	5	1	3	✓
30	2	4	5	1	3	✓
32	2	4	5	1	3	✓

B						
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B						
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B						
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B						
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B						
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B						
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