Homework

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Problem 1.

0	2	3	0	0	7	5	0	0				3	0	4	0	0	7	0	2	0
0	0	7	0	0	0	1	0	0				0	0	0	0	2	0	0	8	0
0	0	4	0	0	3	8	0	0				0	8	0	5	0	1	0	0	0
3	0	0	0	6	8	0	9	0				5	0	0	0	0	0	3	0	0
1	0	0	0	7	2	6	0	5				6	2	0	4	0	0	0	0	1
0	0	0	5	0	0	0	0	0				0	0	7	0	0	0	0	0	0
0	0	0	8	0	0	0	0	0	0	1	6	0	0	0	0	0	6	0	0	5
0	9	0	0	0	0	0	2	0	0	0	0	0	1	8	9	0	0	0	0	0
0	4	6	0	0	0	0	8	0	2	0	3	4	0	0	8	1	3	7	0	0
						2	0	0	0	0	0	0	0	9						
						0	0	4	0	0	0	6	0	3						
						0	0	5	0	0	0	0	2	1						
0	8	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	7	0
0	3	5	0	0	7	0	0	9	0	0	8	3	5	7	8	0	2	0	0	0
0	0	4	0	2	5	8	0	0	0	5	0	0	0	0	0	0	7	0	1	3
0	0	0	0	0	0	0	0	8				0	0	0	0	2	0	0	9	0
0	6	9	0	0	0	4	2	0				5	0	0	9	0	0	0	0	0
0	0	0	0	0	0	1	0	0				6	0	0	0	8	3	0	0	0
6	7	0	8	0	0	0	0	1				8	0	2	4	0	0	7	0	0
0	4	0	2	0	0	0	0	5				0	0	0	0	9	0	2	0	0
0	0	1	0	7	0	3	0	0				0	4	3	0	0	5	0	0	0

SOLUTION.

8	2	3	6	1	7	5	4	9				3	5	4	6	8	7	1	2	9
9	5	7	2	8	4	1	6	3				1	7	9	3	2	4	5	8	6
6	1	4	9	5	3	8	7	2				2	8	6	5	9	1	4	3	7
3	7	5	1	6	8	2	9	4				5	4	1	2	6	9	3	7	8
1	8	9	4	7	2	6	3	5				6	2	3	4	7	8	9	5	1
4	6	2	5	3	9	7	1	8				8	9	7	1	3	5	2	6	4
2	3	1	8	9	6	4	5	7	8	1	6	9	3	2	7	4	6	8	1	5
5	9	8	7	4	1	3	2	6	9	4	5	7	1	8	9	5	2	6	4	3
7	4	6	3	2	5	9	8	1	2	7	3	4	6	5	8	1	3	7	9	2
						2	3	8	1	6	7	5	4	9						
						1	9	4	5	8	2	6	7	3						
						7	6	5	3	9	4	8	2	1						
7	8	6	1	9	3	5	4	2	7	3	9	1	8	6	3	4	9	5	7	2
2	3	5	4	8	7	6	1	9	4	2	8	3	5	7	8	1	2	9	4	6
1	9	4	6	2	5	8	7	3	6	5	1	2	9	4	6	5	7	8	1	3
4	1	7	3	6	2	9	5	8				4	3	8	7	2	1	6	9	5
3	6	9	5	1	8	4	2	7				5	2	1	9	6	4	3	8	7
8	5	2	7	4	9	1	3	6				6	7	9	5	8	3	4	2	1
6	7	3	8	5	4	2	9	1				8	1	2	4	3	6	7	5	9
9	4	8	2	3	1	7	6	5				7	6	5	1	9	8	2	3	4
5	2	1	9	7	6	3	8	4				9	4	3	2	7	5	1	6	8

PROBLEM 2.

0	0	1	0	2	0	3	0	7				0	9	0	0	0	0	0	0	0
0	4	0	0	0	7	6	2	0				0	0	2	7	0	3	0	0	0
0	0	0	0	0	0	9	0	0				7	0	0	1	5	0	0	0	6
0	0	4	5	1	9	0	7	0				0	1	0	0	0	9	8	0	0
0	0	0	4	0	3	2	9	0				2	0	0	5	0	0	0	6	0
0	6	0	0	0	0	0	0	0				0	0	0	6	1	0	0	0	0
0	2	0	0	0	5	0	0	0	0	0	0	5	0	0	4	3	0	0	0	9
0	7	0	0	9	0	0	6	0	0	0	0	0	7	0	9	2	6	3	4	0
0	0	6	8	0	0	7	0	2	8	6	0	0	0	4	0	0	0	0	0	1
						0	0	4	0	1	3	0	0	2						
						6	0	0	0	0	0	0	1	0						
						0	0	0	9	2	0	0	0	5						
5	9	2	0	7	0	0	4	0	0	0	8	0	0	7	0	0	0	0	0	9
0	0	0	1	0	0	0	5	0	3	0	4	1	0	0	0	0	4	0	0	3
3	0	6	5	0	0	9	0	0	0	0	0	0	0	0	9	0	2	0	0	0
8	0	0	0	2	0	0	0	0				8	0	0	3	0	0	0	0	0
7	0	0	0	0	0	8	0	3				0	0	0	4	0	0	0	7	0
0	2	0	0	0	6	0	0	0				0	0	0	0	2	0	1	0	4
0	0	0	0	6	0	0	0	9				0	0	2	0	0	7	0	5	8
0	4	0	0	0	0	1	0	0				0	0	6	0	0	0	0	4	0
0	5	0	9	0	0	7	0	4				9	0	5	0	0	0	2	0	1

SOLUTION.

6	5	1	9	2	8	3	4	7				1	9	5	2	6	8	4	3	7
3	4	9	1	5	7	6	2	8				4	6	2	7	9	3	5	1	8
7	8	2	3	4	6	9	5	1				7	8	3	1	5	4	2	9	6
2	3	4	5	1	9	8	7	6				6	1	7	3	4	9	8	5	2
8	1	7	4	6	3	2	9	5				2	4	9	5	8	7	1	6	3
9	6	5	7	8	2	1	3	4				3	5	8	6	1	2	9	7	4
1	2	3	6	7	5	4	8	9	7	3	1	5	2	6	4	3	1	7	8	9
4	7	8	2	9	1	5	6	3	2	4	9	8	7	1	9	2	6	3	4	5
5	9	6	8	3	4	7	1	2	8	6	5	9	3	4	8	7	5	6	2	1
						8	9	4	5	1	3	7	6	2						
						6	2	5	4	8	7	3	1	9						
						1	3	7	9	2	6	4	8	5						
5	9	2	6	7	8	3	4	1	6	9	8	2	5	7	1	3	6	4	8	9
4	8	7	1	3	9	2	5	6	3	7	4	1	9	8	7	5	4	6	2	3
3	1	6	5	4	2	9	7	8	1	5	2	6	4	3	9	8	2	7	1	5
8	3	4	7	2	1	6	9	5				8	2	4	3	7	1	5	9	6
7	6	1	4	9	5	8	2	3				5	3	1	4	6	9	8	7	2
9	2	5	3	8	6	4	1	7				7	6	9	5	2	8	1	3	4
1	7	3	2	6	4	5	8	9				4	1	2	6	9	7	3	5	8
6	4	9	8	5	7	1	3	2				3	8	6	2	1	5	9	4	7
2	5	8	9	1	3	7	6	4				9	7	5	8	4	3	2	6	1