Lab Goal: The lab was designed to help you review classes, objects, files, arrays, and matrices.

Lab Description: Write a program to make a magic square of numbers. A *magic square* is matrix of numbers. Every column, every row, and every diagonal add up to the same value.

Sample Input:

Sample Output:

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

Files Needed ::

MagicSquare.java Lab01c.java

15	15	15	15
8	1	6	15
3	5	7	15
4	9	2	15

algorithm help

Place 1 in the middle of the top row.

Start a loop for the rest of numbers to insert decrease row by one increase col by one increase num by one

make sure row and col are in bounds

if current spot is not zero (spot is filled) increase row by one decrease col by one make sure row and col are in bounds increase row by one

set spot to num