**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.

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

## Sample Input:

1 7 3

17

MagicSquare2.java MagicSquare2Runner.java magic2.dat

Files Needed ::

## **Sample Output:**

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

## 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 enot is not zero / enot is filled \

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