```java
1 //import java.util.Random;
2 import java.util.Scanner;
3 //import java.util.Arrays;
4 public class StaticArrays {
5
6     public static void main(String[] args) {
7         Scanner in = new Scanner(System.in);
8         magicSquare(in);
9         in.close();
10     }
11     public static void magicSquare(Scanner in){
12         System.out.println("What is the size of your magic square?(only works with odds)");
13         int size = in.nextInt();
14         if(size %2 != 0) {
15             int[][] square = new int[size][size]; //row, column
16             int startcolumn = size/2;
17             int startrow = size-1;
18
19             square[startrow][startcolumn] = 1;
20             int i =2;
21             int j =1;
22             int k =1;
23
24             while(i<= size *size) {
25                 if((startrow+k-1)%size == size-1 && (startcolumn+j-1)%size == size-1) {
26                     square[(startrow+k-2)%size][(startcolumn+j-1)%size] = i;
27                     k--;
28                 }
29                 else if(square[(startrow+k)%size][(startcolumn+j)%size] == 0) {
30                     square[(startrow+k)%size][(startcolumn+j)%size] = i;
31                     k++;
32                     j++;
33                 }
34                 else if(square[(startrow+k)%size][(startcolumn+j)%size] != 0) {
35                     square[(startrow+startrow+k-1)%size][(startcolumn+j-1)%size] = i;
36                     k--;
37
38                 }
39                 i++;
40
41
42             }
43             int b;
44             for(int a = 0; a < size; a ++) {
45                 System.out.print("|");
```

```
46                    b = 0;
47                    System.out.printf("% 3d", square[a][b]);
48                    for(b = 1; b < size; b ++) {
49                        System.out.printf("% 5d", square[a][b]);
50                    }
51                    System.out.println(" |");
52                }
53      }
54
55
56      else
57                System.out.println("Please input an odd number");
58
59      }
60 }
61
62
63
```