



Time Left: 00:14:30

## Snake Matrix Pattern

The program must accept an integer **N** as the input. The program must print the snake matrix pattern based on the following conditions.

- The pattern contains N lines, where the integers from 1 to N\*N occur in the horizontal zigzag direction.
- In the 1<sup>st</sup> line, N-1 asterisks and the first N integers (1 to N) are printed.
- In the 2<sup>nd</sup> line, N-2 asterisks and the next N integers (N+1 to 2\*N in reverse order) are printed.
- In the 3<sup>rd</sup> line, N-3 asterisks and the next N integers (2\*N+1 to 3\*N) are printed.
- In the 4<sup>th</sup> line, N-4 asterisks and the next N integers (3\*N+1 to 4\*N in reverse order) are printed.
- Similarly, the remaining lines are printed as the output.

### Boundary Condition(s):

2 <= N <= 50

### Input Format:

The first line contains N.

### Output Format:

The first N lines contain the snake matrix pattern based on the given conditions.

### Example Input/Output 1:

Input:

4

Output:

\* \* \* 1 2 3 4

\* \* 8 7 6 5

\* 9 10 11 12

16 15 14 13

Explanation:

Here N = **4**, so the pattern contains **4 lines**, where the integers from **1 to 16** occur in the horizontal zigzag direction.

### Example Input/Output 2:

Input:

7

Output:

\* \* \* \* \* 1 2 3 4 5 6 7

\* \* \* \* 14 13 12 11 10 9 8

\* \* \* 15 16 17 18 19 20 21

\* \* 28 27 26 25 24 23 22

\* 29 30 31 32 33 34 35

\* 42 41 40 39 38 37 36

43 45 46 47 48 49

**Max Execution Time Limit: 50 millisecs**

Ambiance

Java ( 12.0)



```

1 import java.util.*;
2 public class Hello {
3
4     public static void main(String[] args) {
5
6
7         Scanner sc = new Scanner(System.in);
8
9         int n=sc.nextInt();
10
11         int starBound=n-1;
12         boolean forward = true;
13         int eleCount = 1;
14
15         for(int i=0;i<n;i++){
16
17             for(int k=0;k<starBound;k++)System.out.print("*");
18
19             int arr[] = new int[n];
20
21             for(int j=0;j<n;j++){
22                 arr[j] = eleCount++;
23             }
24
25             if(forward){
26                 for(int z:arr)
27                     System.out.print(z+" ");
28             }else{
29                 for(int z=n-1;z>=0;z--) {
30                     System.out.print(arr[z]+" ");
31                 }
32             }
33
34             forward=!forward;
35
36
37             System.out.println();
38             starBound--;
39         }
40
41
42
43     }
44 }

```

1912067@nec

Code did not pass the execution

Input:

4

Expected Output:

```

*** 1 2 3 4
** 8 7 6 5
* 9 10 11 12
16 15 14 13

```

Your Program Output:

```

***1234
**8765
*9101112
16151413
12

```

Save

Run

