

<https://course.acciojob.com/idle?question=39074377-8100-43a0-b588-7498d1a14678>

● EASY

● Max Score: 30 Points

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Star Diamond

Take input of N from the user and write a program to print the solid diamond pattern with stars ($N=4$) :

```
  *
 * *
* * *
* * * *
* * * * *
 * * * *
  * * *
   * *
    *
```

Input Format

The first line of input contains the integer N .

Output Format

Print the pattern for user entered value of n .

Example 1

Input

4

Output

```

  *
 * *
* * *
* * * *
* * * * *
 * * * *
  * * *
   * *
    *
```

Explanation

Since $n = 4$, the number of rows $= 2n + 1 = 9$. First the number of rows keep increasing in each row till row 5 and then they start decreasing.

Example 2

Input

6

Output

```

  *
 * *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *
* * * * * * *
* * * * *
 * * * *
  * * * *
```

```
* * *
* *
*
```

Explanation

Since $n = 6$, the number of rows $= 2n + 1 = 13$. First the number of stars keep increasing in each row till row 7 and then they start decreasing.

Constraints

$1 \leq N \leq 400$

Topic Tags

- **Loops**

My code

// in java

```
import java.util.*;
import java.lang.*;
import java.io.*;
```

```
public class Main
{
```

```
    public static void main (String[] args) throws java.lang.Exception
    {
```

```
        //your code here
```

```
        Scanner s=new Scanner(System.in);
```

```
        int n=s.nextInt();
```

```
        for(int i=0;i<=n;i++)
```

```
        {
```

```
        for(int j=0;j<n-i;j++)
            System.out.print(" ");
        for(int j=0;j<=i;j++)
            System.out.print("* ");
        System.out.print("\n");
    }

    for(int i=0;i<n;i++)
    {
        for(int j=0;j<=i;j++)
            System.out.print(" ");
        for(int j=0;j<n-i;j++)
            System.out.print("* ");
        System.out.print("\n");
    }
}
```