

<https://course.acciojob.com/idle?question=3c411907-4c1b-4afe-889e-4ad161ba2c77>

● EASY

● Max Score: 30 Points

## Void of Diamond

You are given an integer 'N', 'N' will always be an odd integer. Your task is to print a pattern with the following description:

1. The pattern will consist of 'N' lines.
2. The pattern will consist of ' ' (space) and '\*' characters only.
3. The pattern will be a "Void of Diamond" pattern.
4. A "Void of Diamond" pattern is a pattern 'N' \* 'N' cells and ' ' characters make a diamond shape and '\*' fill all other points.
5. For a better understanding of the "Void of Diamond" pattern refer to example and sample input-output.

**For example:**

If 'N' is 5 then the pattern will be-

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

**Input Format:**

The first line of input contains a single integer 'N' denoting the size of the pattern.

**Output Format:**

Print 'N' strings denoting the pattern.

**Example 1:**

## Input:

5

## Output:

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

## Explanation:

Given 'N' = 5 We will print the pattern as the description of the “Void of Diamond” pattern.

## Example 1:

## Input:

3

## Output:

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

## Explanation:

Given 'N' = 3 There will be only 1 space in the diamond pattern.

## Constraints:

$3 \leq N \leq 500$

- Math

# My code

// in java

```
import java.io.*;
```

```
import java.util.*;
```

```
public class Main {
```

```
    public static void main(String args[]) {
```

```
        // your code here
```

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

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

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

```
            System.out.print("*");
```

```
            System.out.print("\n");
```

```
        for(int i=0;i<n/2;i++)
```

```
        {
```

```
            for(int j=0;j<n/2-i;j++)
```

```
                System.out.print("*");
```

```
            for(int j=0;j<(2*i+1);j++)
```

```
                System.out.print(" ");
```

```
            for(int j=0;j<n/2-i;j++)
```

```
                System.out.print("*");
```

```
            System.out.print("\n");
```

```
}
```

```
for(int i=1;i<n/2;i++)  
{  
    for(int j=0;j<=i;j++)  
        System.out.print("*");  
  
        for(int j=0;j<(n-(2*i)-2);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++)  
    System.out.print("*");
```

```
}
```

```
}
```