

<https://course.acciojob.com/idle?question=4ce06757-c043-4dfb-bd71-6482001888b3>

- EASY
- Max Score: 30 Points

Diamond Pattern

Given an integer N , print a diamond full of stars * with height equal to N .

Note It is given that N is odd.

Input Format

The first line contains the number of test cases.

For each test case: The first line contains an integer N denoting the height of the pyramid.

Output Format

For each test case print the required pattern.

Example 1

Input

```
1
5
```

Output

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

Explanation

The required diamond of height 5 has been returned.

Example 2

Input

```
1
3
```

Output

```
  *
 * * *
  *
```

Explanation

The required diamond of height 3 has been returned.

Constraints

$1 \leq T \leq 10$

$1 \leq N \leq 100$

N is odd.

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 t=s.nextInt();
```

```
        for(int l=0;l<t;l++)
```

```
        {
```

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

```
            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<(i+i+1);j++)
```

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

```

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

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

```