

Java Week 8: Q4

Due on 2020-11-12, 23:59 IST

Write a program to *print symmetric Pascal's triangle of "*" 's of height "l" of odd length . If input "l" is even then your program will print "Invalid line number".*

For example:

input : 5

output:

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

input : 6

output:

Invalid line number

Private Test cases used for evaluation

Test Case 1

Test Case 2

Input	Expected Output	Actual Output	Status
8	Invalid line number	Invalid line number	Passed
5	* \n * * \n * * \n * \n	* \n * * \n * * \n * \n	Passed

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-11-06, 00:22 IST

Your last recorded submission was :

```
1 import java.util.*;
2 public class Pattern4 {
3     public static void main(String[] args) {
4         Scanner inr = new Scanner(System.in);
5         int l = inr.nextInt();
6         int ul=0; // Upper Line
7         int ll=0; // Lower Line
8
9         // Check whether line number is odd
10        if (l%2!=0){
11            ul=(l/2)+1;
12            ll=l-ul;
13            //Code for upper half
14            for(int i=1;i<=ul; i++){
15                //Space management
16                for(int s=1;s<=(ul-i); s++){
17                    System.out.print(" ");
18                }
19                // Star management
20                for(int j=1;j<=i; j++){
21                    System.out.print("* ");
22                }
23                System.out.println();
24            }
25            //Code for lower half
26            int llc=ll;
27            for(int i=1;i<=ll; i++){
28                //Space management
29                for(int s=1;s<=(ll-i); s++){
30                    System.out.print(" ");
31                }
32                // Star management
33                for(int j=1;j<=ll-i; j++){
34                    System.out.print(" ");
35                }
36                llc--;
37                System.out.println();
38            }
39        }
40        else{
41            System.out.print("Invalid line number");
42        }
43    }
44 }
45
46 }
```

Sample solutions (Provided by instructor)

```
1 import java.util.*;
2 public class Pattern4 {
3     public static void main(String[] args) {
4         Scanner inr = new Scanner(System.in);
5         int l = inr.nextInt();
6         int ul=0; // Upper Line
7         int ll=0; // Lower Line
8
9         // Check whether line number is odd
10        if (l%2!=0){
11            ul=(l/2)+1;
12            ll=l-ul;
13            //Code for upper half
14            for(int i=1;i<=ul; i++){
15                //Space management
16                for(int s=1;s<=(ul-i); s++){
17                    System.out.print(" ");
```

Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1 :

Week 2 :

Week 3 :

Week 4 :

Week 5 :

Week 6 :

Week 7 :

Week 8 :

• Lecture 36 : Applet Programming-III

• Lecture 37 : Demonstration-XIII

• Lecture 38 : Demonstration-XIV

• Lecture 39 : AWT Programming-I

• Lecture 40 : AWT Programming-II

• Quiz: Assignment 8

• Java Week 8: Q1

• Java Week 8: Q2

• Java Week 8: Q3

• Java Week 8: Q4

• Java Week 8: Q5

• Feedback For Week 8

Week 9 :

Week 10 :

Week 11 :

Week 12 :

Solution

DOWNLOAD VIDEOS

Text Transcripts

Programming Test - (April 11 - 10AM - 12 PM)

Programming Test - (April 11 - 8PM - 10 PM)

```

18     }
19     // Star management
20     for(int j=1;j<=i; j++){
21         System.out.print(" * ");
22     }
23     System.out.println();
24 }
25
26 //Code for lower half
27 int llc=11;
28 for(int i=1;i<=11; i++){
29     //Space management
30     for(int s=llc;s<11; s++){
31         System.out.print(" ");
32     }
33     // Star management
34     for(int j=1;j-1<=11-i; j++){
35         System.out.print(" *");
36     }
37     llc--;
38     System.out.println();
39 }
40 }
41     else{
42         System.out.print("Invalid line number");
43     }
44 }
45 }
46 }
47

```