Java Week 8: Q4

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

Note: Spaces must be exactly same as in the example for correct evaluation.

Sample Test Cases

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Case 1</td>
<td>8</td>
<td>Invalid line number</td>
</tr>
</tbody>
</table>
| Test Case 2 | 3     | *
|            |       | * * |
|            |       | * |
Test Case 3

Invalid line number

* 
* * 
* * * 
* * * * 
* * * 
* 

Test Case 4

7

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```java
import java.util.*;

public class Pattern4 {
    public static void main(String[] args) {
        Scanner inr = new Scanner(System.in);
        int l = inr.nextInt();
        int ul = 0; // Upper Line
        int ll = 0; // Lower Line

        // Check whether line number is odd
        if (l % 2 != 0) {
            ul = (l / 2) + 1;
            ll = l - ul;
            // Code for upper half
            for (int i = 1; i <= ul; i++) {
                // Space management
                for (int s = 1; s <= (ul - i); s++)
                    System.out.print(" ");
                // Star management
                for (int j = 1; j <= i; j++)
                    System.out.print("*");
                System.out.println();
            }
        } else {
            System.out.print("Invalid line number");
        }
    }
}
```
Week 12:

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