

Credit Name:CSE 2110 Procedural Programming 1
Assignment Name: Ch6: Exercise 4 - Isosceles triangle

Error Log Entry

What error message did you encounter (if any)?

What unexpected behavior did your program exhibit?

1. The formatting of the printed triangle did not display properly.

```
Enter size of triangle: 4
 ***
  **
 *

```

2. The triangle was centered except for the first star

```
Enter size of triangle: 4
*
 ***
 ****
*****
```

What caused the issue? (e.g., syntax error, logic error, incorrect function usage, etc.)

1. Logic Error - I couldnt figure out what was the correct line of code to print the right amount of stars

2. Logic Error - The stars were called to first before the spaces, so the first star didn't receive its space

Include a screenshot of specific lines of code.

```
for (int i = 1; i <= lines; i++)
{
    int stars = lines - i;
    int spaces = lines - i;
    drawBar(stars);
    addSpace(spaces);
}
```

How did you fix the issue?

1. I used chatgpt to help determine the correct formula to calculate the correct number of stars.

2. I switched the two call to the methods so that addSpace would be before the drawBar

Provide the corrected code or solution using a screenshot.

The screenshot shows the Eclipse IDE interface with the Java project 'CS20P2' open. The 'IsoTriangle.java' file is selected in the Project Explorer. The code implements an isosceles triangle using nested loops to calculate the number of stars and spaces, and then prints them out. The 'main' method reads the size from standard input and prints the triangle to standard output. The execution terminal at the bottom shows the output of running the program with an input of 4, resulting in a centered triangle.

```
Project Explorer X RandomNumbers.java Visitors.java IsoTriangle.java X
1 package mastery;
2 import java.util.Scanner;
3
4 public class IsoTriangle
5 {
6
7     public static void drawBar(int stars)
8     {
9         for (int i = 1; i <= stars; i++)
10        {
11            System.out.print("*");
12        }
13        System.out.println();
14    }
15
16    public static void addSpace(int spaces)
17    {
18        for (int i = 1; i <= spaces; i++)
19        {
20            System.out.print(" ");
21        }
22    }
23
24 }
25
26 public static void main(String[] args)
27 {
28     Scanner input = new Scanner(System.in);
29
30     System.out.print("Enter size of triangle: ");
31     int lines = input.nextInt();
32
33     for (int i = 1; i <= lines; i++)
34     {
35         int stars = 2 * i - 1;
36         int spaces = lines - i;
37         addSpace(spaces);
38         drawBar(stars);
39     }
40
41     input.close();
42 }
43
44 }
```

Enter size of triangle: 4

History Synchronize Git Staging Git Reflog Properties Console Type Hierarchy
terminated: IsoTriangle [Java Application] C:\Program Files\Eclipse\plugins\org.eclipse.jdt.core\full\win32_86_64_21.0.7.v20200502-0916\jre\bin\javaw.exe (Nov 17, 2025, 10:43:44 AM – 10:43:47 AM elapsed: 0:00:03.651) {pid: 3220}