Lab Report 11

# Problem

The program we need to make is one that will allow the user to enter any number for the height of a triangle, then the program should create a horizontal triangle with that height.

# Proposed Solution

Start

Have the user enter the height of the triangle

**for**(**int** i = 1; i <= height; i++)

i++

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

j++

Print “\*”

Move to the next line

**for**(**int** i = height - 1; i != 0; i--)

**for**(**int** j = i; j != 0; j--)

i--

j--

Print “\*”

Move to a new line

End

# Tests and Results

I tested it with several values, plus the values in the example.

# Problems Encountered

The main problem that I encountered was that the spacing would be off for the triangle. This was fixed by forcing the program to move to the next line.

# Conclusions and Discussion

Sum up the lab and the results. Also discuss other ways to have solved the problem in a better way with supporting evidence.

There are certainly other ways to create the for loops for this lab. However, I found that create two separate nesting for loops was easier for this program.

# Additional Questions

1. In the proposed solution section, draw a flowchart to represent your solution.

2. What is the output of the code snippet below:

for(int n = 1; n <= 5; n++)

{

if(n == 3)

{

System.exit(0);

}

System.out.println(“Hello”);

}

System.out.println(“After the loop”);

Outcome:

Hello

Hello