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August 27, 2025

Assignment 3.2

CSD402 Java for Programmers

Code:

// Joel Atkinson CSD402 Assignment 3.2  
// This assignment's purpose is to use nested loops to display numbers mirroring each other in a pyramid output  
  
public class NestedLoop {  
 public static void main(String[] args) {  
 int rows = 7;  
 int maxWidth = 33;  
 for (int row = 1; row <= rows; row++) {  
 StringBuilder line = new StringBuilder();  
 for (int j = 0; j < row; j++) {  
 int num = 1 << j;  
 if (line. length() > 0) {  
 line.append(" ");  
 }  
 line.append(num);  
 }  
 for (int j = row - 2; j >= 0; j--) {  
 int num = 1 << j;  
 line.append(" ");  
 line.append(num);  
 }  
 String numbersStr = line.toString();  
 int currentWidth = numbersStr.length() + 2;  
 int leadingSpaces = (maxWidth - currentWidth) / 2;  
 for (int s = 0; s < leadingSpaces; s++) {  
 System.*out*.print(" ");  
 }  
 System.*out*.print(numbersStr);  
  
 for (int s = currentWidth + leadingSpaces; s < maxWidth -1; s++) {  
 System.*out*.print(" ");  
 }  
 System.*out*.print("@");  
 System.*out*.println();  
 }  
 }  
}

Screenshot of coding running without errors:

A screenshot of a computer program

AI-generated content may be incorrect.