1. Implement a program to print the first 50 triangular numbers using a combination of loops. Break the loop if a triangular number exceeds 1000.

public class TriangularNumbers {

public static void main(String[] args) {

int count = 0; // Counter for the number of triangular numbers printed

for (int i = 1; i <= 50; i++) { // Iterate from 1 to 50 to find the first 50 triangular numbers

int triangularNumber = (i \* (i + 1)) / 2; // Calculate the ith triangular number

if (triangularNumber > 1000) { // Check if the triangular number exceeds 1000

break; // Break the loop if it exceeds 1000

}

System.out.println(triangularNumber); // Print the triangular number

count++; // Increment the count of printed triangular numbers

}

System.out.println("Total triangular numbers printed: " + count); // Print the total count of printed triangular numbers

}

}