public class SumCalculator {

public static int sumUpTo(int n) {

if (n < 1) {

throw new IllegalArgumentException("n must be a positive integer.");

}

return n \* (n + 1) / 2; // Using the formula for the sum of the first n natural numbers

}

public static void main(String[] args) {

System.out.println(sumUpTo(5)); // Output: 15 (1+2+3+4+5)

System.out.println(sumUpTo(10)); // Output: 55 (1+2+...+10)

System.out.println(sumUpTo(1)); // Output: 1

}

}