**Problem Statement : Triangular Number Sequence**

**Description :** This Triangular Number Sequence is generated from a pattern of dots that form a triangle. The first 5 numbers of the sequence, or dots, are:

1, 3, 6, 10, 15

This means that the first triangle has just one dot, the second one has three dots, the third one has 6 dots and so on.

Write a function that returns the number of dots when given its corresponding triangle number of the sequence.

### **Examples**

### triangle(1) ➞ 1

### triangle(6) ➞ 21

### triangle(215) ➞ 23220

**Solution :**

public class Challenge {

public static int triangle(int n) {

return n \* (n + 1) / 2;

}

public static void main(String[] args) {

System.out.println(triangle(1));

System.out.println(triangle(6));

System.out.println(triangle(215));

}

}