https://course.acciojob.com/idle?question=9db0ea18-9cfe-4a2f-99d0-4915af8890d5

- EASY
- Max Score: 30 Points

Triangle Block Count

We have a triangle made of blocks. The topmost row has 1 block, the next row down has 2 blocks, the next row has 3 blocks, and so on until `n` rows which has `n` blocks.

Compute the total number of blocks in such a triangle with the given number of rows.

Note: Compute the answer recursively without using loops or multiplication.

Input Format

The only line of input contains `n`, denoting the number of rows.

Output Format:

Return the total number of blocks in the triangle.

Example 1

Input

```
2
```

Output

```
3
```

Explanation

```
*
**
```

This is the triangle given in the question. There are three blocks where each block has been represented by *.

Example 2

Input

```
4
```

Output

```
10
```

Explanation

```
*
**
***
****
```

This is the triangle given in the question. There are ten blocks where each block has been represented by *.

Constraints

1 <= n <= 1000

Topic Tags

- Recursion

My code

// in java

```
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    static int fun(int n)
    {
        if(n==1)
            return 1;
        return fun(n-1)+n;
    }
        public static void main (String[] args) throws java.lang.Exception
        {
                //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        System.out.print(fun(n));
        }
}
```