# DMOPC '14 Contest 8 P4 - Sand Triangle

Bored out of his mind from being stranded on an island, Tusk has taken to writing down sequences of numbers in the sand. Today, he decided to write down a triangle of numbers, with each row $r$ containing $r$ numbers. When read from top to bottom, left to right, the triangle is made up of consecutive natural numbers starting from $1$.

```
       1
      2 3
     4 5 6
    7 8 9 10
 11 12 13 14 15
16 17 18 19 20 21
      ...
```

Being curious and having nothing better to do, Tusk wonders what the sum of all the numbers on the row that contains the number $N$ is.

Unfortunately, his beach is too small for him to write down such a massive triangle!

## Constraints

### Subtask 1 [40%]

For $40\%$ of the points, it will hold that $N \leq 10^3$.

### Subtask 2 [60%]

For the remaining $60\%$ of the points, it will hold that $N \leq 10^9$.

## Input Specification

A single integer, $N$.

## Output Specification

The sum of all the numbers on the row of the triangle containing $N$.

## Sample Input

```
5
```

## Sample Output

```
15
```

## Explanation

Considering the example triangle, $5$ is contained in row $3$, which contains the numbers $4 + 5 + 6 = 15$.