

# AlphaBit Coding Challenge

## Problem 1: Big sum

### Statement

Remember solving the Small Sum problem ? This is him now, but **way bigger** !

Calculate the summation of the first **N** numbers  $1 + 2 + 3 + \dots + (n-1) + n$ .

Pay attention to the huge size of **N** !

We guarantee that the sum is  $< 2^{63}$

### Input

A single line that contains a positive integer number **N**.

### Output

A single line that contains the summation of the first N numbers.

### Example

Input	Output
4	10