AlphaBit Coding Challenge

Practice Problem 2: Small sum

Statement

Given a positive number **N**, calculate the summation of the **N** first integer numbers.

1 + 2 + 3 + ... + (N-1) + N

Input

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

0 < N < 1024

Output

A single line that contains the sum of **N**.

Example

Input	Output
4	10