

Experiment 01 - Exercise 10: Sum of First n Natural Numbers

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Objective

Find the sum of the first n natural numbers.

Input

A non-negative integer n .

Output

Sum $1 + 2 + \dots + n$.

Approach

Use the formula:

$$\text{Sum} = \frac{n(n + 1)}{2}$$

In Python, use integer division // to keep the result as an integer.

Time Complexity

$\Theta(1)$.