Problem Statement: Sum of First N Integers

Description:

Write a program that reads a single integer N from standard input and calculates the sum of the first N integers, where N can be any integer (positive, negative, or zero). The sequence of the first N integers starts from 1 and goes up to N if N is positive, or starts from -1 and goes down to N if N is negative. If N is 0, the sum is considered 0.

Input:

The input consists of a single line containing a single integer N $(-1000 \le N \le 1000)$.

Output:

Explanation 2:

The output should be a single line containing a single integer, the sum of the first N integers.

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Example Input 1:
5

Example Output 1:
15

Explanation 1:
The sum of the first 5 integers (1 + 2 + 3 + 4 + 5) is 15.

Example Input 2:
-3

Example Output 2:
-6
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The sum of the first -3 integers (-1 + -2 + -3) is -6.