

2000-2001 ACM Northeastern European Regional Programming Contest
Practice Session – Problem Z
"Sum"

Input file SUM . IN

Output file SUM . OUT

Time limit 15 seconds per test

Your task is to find the sum of all integer numbers lying between 1 and N inclusive.

Input

The input file consists of a single integer N that is not greater than 10000 by it's absolute value.

Output

Write to the output file a single integer number that is the sum of all integer numbers lying between 1 and N inclusive.

Sample input

-3

Output for the sample input

-5