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Sum Problem

Time Limit: 1000/500 MS (Java/Others)

Memory Limit: 65536/32768 K (Java/Others)

Total Submission(s): 385971

Accepted Submission(s): 96596

Problem Description

Hey, welcome to HDOJ(Hangzhou Dianzi University Online Judge).

In this problem, your task is to calculate $SUM(n) = 1 + 2 + 3 + \dots + n$.

Input

The input will consist of a series of integers n, one integer per line.

Output

For each case, output SUM(n) in one line, followed by a blank line. You may assume the result will be in the range of 32-bit signed integer.

Sample Input

1
100

Sample Output

1

5050

Author

DOOM III

Recommend

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