**Sum Problem**

**Time Limit: 1000/500 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others)  
Total Submission(s): 312704    Accepted Submission(s): 78685**

**Problem Description**

Hey, welcome to HDOJ(Hangzhou Dianzi University Online Judge).  
  
In this problem, your task is to calculate SUM(n) = 1 + 2 + 3 + ... + 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**

We have carefully selected several similar problems for you:  [1094](http://acm.hdu.edu.cn/showproblem.php?pid=1094) [1095](http://acm.hdu.edu.cn/showproblem.php?pid=1095) [1170](http://acm.hdu.edu.cn/showproblem.php?pid=1170) [1161](http://acm.hdu.edu.cn/showproblem.php?pid=1161) [1106](http://acm.hdu.edu.cn/showproblem.php?pid=1106)