1 to N

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	256 megabytes

IT committee members were asked to make problems.

There are N members in the *IT committee* and they were asked about making problems.

But there is a rule: **"The fastest at creating problems creates fewer problems."**

In other words, the first one makes 1, the second one makes 2,$\cdots$, and the N-th one makes N.

Can you calculate the total number of problems the committee will make?

Input

The first line contains t -($1 \leq t \leq 10^5$)- number of test cases.

For each test case, you will be given n -($1 \leq n \leq 10^9$)- number of members in the committee.

Output

For each test case output the total number of problems.

Example

standard input	standard output
2 1 5	1 15