A. You may fire when ready, Gridley

Commodore George Dewey has an odd strategy to win the Spanish American war. He lines his ships in rows, with the 1st row having 1 ship, the 2nd row having 2 ships, the 3rd row having 3... and the kth row having k ships. After he lines up all k rows, he orders Gridley to "Fire when ready", but Gridley responds that he must know the total number of ships in all the rows.

Input Format

The first line will contain the number of test cases (n<500). The next n lines will contain a positive integer, k, representing the number of rows Commodore Dewey is using.

Output Format

For each test case, output one line saying the total number of ships in all of the rows.

Sample Input

```
3
1
7
100
```

Sample Output

```
6
1
28
5050
```