## Pyramid

Input File: pyramid.txt

You can build a very basic pyramid, by putting layers of 1 unit thickness squares on top of each other. For example, a pyramid of 3 levels, can be made by putting a $1 \times 1$ square on top of a 2 x 2 square on top of $3 \times 3$ square. Your job is to determine the volume of the pyramid of a given level. The example pyramid's volume is 14 .

## Input:

The first line contains an integer N . There are N following line, each consisting of an integer, defining the levels of the pyramid.

## Output:

Output the volume of the pyramid of the given levels. Your output should be an integer.

## Example Input:

3
1

4
100

Example Output:

1
30
338350

