## Counting Triangles II

We define the LEVEL of a triangle as in the following illustrative image:


LEVEL 1


LEVEL 2


LEVEL 4

And we continue defining the LEVEL of a hexagon. It's called level $N$ hexagon if it's joined by 6 triangles, each one is a level N triangle.


Each triangle has level $N$

Example

"LEVEL 2" HEXAGON

Task: All you have to do is to count all triangles in the "level N" hexagon.

## Input

The first line of the input contains an integer T - the number of test cases and T lines follow. Each line contains an integer N which is the level of the hexagon in that test case.

## Output

For each test case, you should write a seperate line: the number of triangles in the "level N" hexagon. (All answers will fit within the range of a 64-bit positive integer)

## Example

## Input:

1
1

Output:
6

## Be careful with certain languages

