## Move To Invert

A triangle made of coins of height $h$ is as follows
It has $h$ coins at the base and $\mathrm{h}-1$ coins one level above base and so on.(Coins are placed as shown in the figure below)
And at the top most level there will be only one coin
Now given $h$ the task is to invert this triangle by moving minimum number of coins. For example when $\mathrm{h}=4$ triangle is


For $h=4$ at least 3 coins must be moved to invert it.

## Input

In the first line N will be given and then N lines follow with each line having a integer which is the height of triangle in that test case $.00 \leq h<10^{10}$;

## Output

For each test case output in a seperate line the minimum number of moves required to invert the triangle. Output fits in long long data type

## Example

## Inputt:

1
3

## Output:

2

