

# How Many Games?

A player has played unknown number of games. We know the average score of the player (sum of scores in all the games / number of games). Find the minimum number of games the player should have played to achieve that average.

The player can score any non-negative integer score in a game.

## Input

The first line consists of an integer  $t$ , the number of test cases. Each test case consists of a single [rational number](#) which represents the average score of the player.

## Output

For each test case, find the minimum number of matches the player should have played to achieve that average.

## Constraints

$1 \leq t \leq 1000$

$1 \leq \text{average} \leq 1000000$  (maximum 4 digits after the decimal place)

## Example

**Input:**

3  
5  
5.5  
30.25

**Output:**

1  
2  
4