

# Deposit interest rates

An deposits an amount of money  $N$  into the bank with an interest rate  $L$  (%). Each year, interest is added into the deposit. In How many years An will gain  $M$ .

## Input

The first line is the number of test cases.

Each test set consists of three integers  $N$   $L$   $M$ .

Note: all numbers are in real number and  $N < M$ .

## Output

For each test case, print the result on one line

## Example

**Input:**

```
2
200.00 6.5 300
500 4 1000.00
```

**Output:**

```
7
18
```