BACK depositProfit

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DESCRIPTION SOLUTIONS 9584 COMMENTS 41 > CODEWRITING SCORE: 300/300

You have deposited a specific amount of dollars into your bank account. Each year your balance increases at the same growth <code>rate</code> . Find out how long it would take for your balance to pass a specific <code>threshold</code> with the assumption that you don't make any additional deposits.

Example

```
For deposit = 100, rate = 20 and threshold = 170, the output should be depositProfit(deposit, rate, threshold) = 3.
```

Each year the amount of money on your account increases by 20%. It means that throughout the years your balance would be:

```
year 0: 100;year 1: 120;year 2: 144;year 3: 172,8.
```

Thus, it will take 3 years for your balance to pass the threshold, which is the answer.

Input/Output

- [execution time limit] 4 seconds (js)
- [input] integer deposit

The initial deposit as a positive integer.

Guaranteed constraints:

```
1 ≤ deposit ≤ 100.
```

• [input] integer rate

The rate of increase. Each year the balance increases by the <code>rate percent</code> of the current sum.

Guaranteed constraints:

```
1 ≤ rate ≤ 100 .
```

[input] integer threshold

