Bank Loan 1

Mr. Huy wants to buy a new house worth **X** VND, so he decided to take out a bank loan with an interest rate of **r% per year**. He calculates that he could pay a maximum of **Y** VND per month (includes principal and interest). How long would he pay off his loan?

Input

The only line contains 2 integers **X**, **Y** and a real number **r** ($0 < X, Y < 10^{12}, 0 < r \leq 100$).

Output

A number indicating which month he pays off his loan.

Sample

Input	Output
1000000000 100000000 6	11
500000000 100000000 6.2	6