# double product

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

While mahdi was studying math as always, he found a math problem and he solved it very fast.

The statements of the problem are as follow : You are given three integers a , b and n and you need to find the number of pairs  $(1 \le x \le n \ , \ 1 \le y \le n)$  such that a . x = b . y .

Let's see if you can beat mahdi and answer the question faster than him .

#### Input

First line contains only one integer q (  $1 \le q \le 10^5$  ) — the number of the queries .

The next q lines each contains 3 space-seperated integers a , b , n (  $1 \le a$  , b , n  $\le 10^9$  ) — the numbers described in the problem statements .

## Output

Print q lines , the ith line contains one integer — the answer of the ith query .

## Example

| standard input | standard output |
|----------------|-----------------|
| 5              | 3               |
| 2 3 9          | 9               |
| 3 3 9          | 2               |
| 1 5 10         | 0               |
| 5 4 2          | 20              |
| 1 1 20         |                 |

#### Note

In the first example the possible pairs are (3,2), (6,4) and (9,6).

It is preferred to use %I64d specifier to read the integers in the queries .