# 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 (x, y)  $(1 \le x \le n, 1 \le y \le n)$  such that  $a \cdot x = b \cdot y$ .

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

### Input

First line contains only one integer q (  $1 \leq q \leq 10^5$  ) — 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 .