

C. STUNNING GCD

Time limit: 1s

Memory limit: 1536 MB

Problem statement:

You are given three numbers N , a , b . You can build a number X by repeating N ' a ' times and the number Y by repeating N ' b ' times. Now that you have the numbers X and Y , determine the GCD of the two numbers X and Y .

Input format:

The first line contains an integer T , the number of test cases.

Then for each test case, there are three integers in each line: **N , a , b** .

Output format:

Print the required answer for each test case in a single line.

Constraints:

$$1 \leq T \leq 100$$

$$1 \leq N, a, b \leq 10^{18}$$

Sample input:

```
1
123 2 3
```

Output:

```
123
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