Closest Number

You are given 3 numbers a, b and x. You need to output the multiple of x which is closest to a^b. If more than one answer exists , display the smallest one.

Input Format

The first line contains T, the number of testcases.
T lines follow, each line contains 3 space separated integers (a, b and x respectively)

Constraints

$1 \le T \le 10^5$
$1 \le x \le 10^9$
$0 < a^b \le 10^9$
$1 \le a \le 10^9$
$-10^9 \le b \le 10^9$

Output Format

For each test case , output the multiple of x which is closest to a^b

Sample Input 0

```
3
349 1 4
395 1 7
4 -2 2
```

Sample Output 0

```
348
392
0
```

Explanation 0

The closest multiple of 4 to 349 is 348.
The closest multiple of 7 to 395 is 392.
The closest multiple of 2 to 1/16 is 0.