

Problem 1

Given three Integers A, B, and N. Find how many integers between A and B (inclusive) are divisible by N. $0 \leq A \leq B \leq 10^{18}$, $1 \leq N \leq 10^{18}$.

Input

First line contains T the number of test cases. Each of next T lines contains 3 integer A, B, N.

Output

For each test case print the answer in a new line.

Example

Input:

2

1 4 3

10 20 6

Output:

1

2