Problem B. Between a and b ...

Time limit 2000 ms
Mem limit 262144 kB

Problem Statement

You are given nonnegative integers a and b ($a \le b$), and a positive integer x. Among the integers between a and b, inclusive, how many are divisible by x?

Constraints

- $0 \le a \le b \le 10^{18}$
- $1 \le x \le 10^{18}$

Input

The input is given from Standard Input in the following format:

```
a b x
```

Output

Print the number of the integers between a and b, inclusive, that are divisible by x.

Sample 1

Input	Output
4 8 2	3

There are three integers between 4 and 8, inclusive, that are divisible by 2: 4, 6 and 8.

Sample 2

Input	Output
0 5 1	6

There are six integers between 0 and 5, inclusive, that are divisible by 1: 0, 1, 2, 3, 4 and 5.

Sample 3

Input	Output
9 9 2	0

There are no integer between 9 and 9, inclusive, that is divisible by 2.

Sample 4

Input	Output
1 1000000000000000000 3	333333333333333333

Watch out for integer overflows.