

# n-divisors

We all know about prime numbers, prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself.

We can Classify the numbers by its number of divisors, as n-divisors-numbers, for example number 1 is 1-divisor number, number 4 is 3-divisors-number... etc.

**Note:** All prime numbers are 2-divisors numbers.

**Example:**

8 is a 4-divisors-number [1, 2, 4, 8].

## Input

Three integers a, b, n.

## Output

Print single line the number of n-divisors numbers between a and b inclusive.

## Example

**Input:**

1 7 2

**Output:**

4

## Constraints

$1 \leq a, b \leq 10^9$

$0 \leq b - a \leq 10^4$

$1 \leq n \leq 100$