You have got an array of integers. Each element in the array is a non-negative integer. You have also got two other non-negative integers L and R such that (L<=R). Your task is to find the number of integers between L and R by which each number in the given array is divisible.

For example, if the given array is [2,4,6,2,10], L=2 and R=5. The only integer situated inclusively between 2 and 5 and dividing each element in the array is 2. So, in this case the answer is 1 since there is only one integer satisfying the required property.

## **Input format and constraints:**

- An integer n inclusively between 1 and 2x10<sup>5</sup>, representing the size of the array
- n non-negative integers representing the elements in the array, each not exceeding 10^12
- L and R such that 0<L<=R and R<=10^18

*Output:* a single integer representing the required answer.

Sample input 1: 5

12345

1 1000

Sample output 1: 1

Sample input 2: 6

6 90 12 18 30 18

3 10000000000000000000

Sample output 2: 2