29m left

1. Between Two Sets

There will be two arrays of integers. Determine all integers that satisfy the following two conditions:

ALL

1. The elements of the first array are all factors of the integer being considered

2. The integer being considered is a factor of all elements of the second array

These numbers are referred to as being *between* the two arrays. Determine how many such numbers exist.

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Example

$a = [2, 6]$

$b = [24, 36]$

There are two numbers between the arrays: 6 and 12.

$6\%2 = 0, 6\%6 = 0, 24\%6 = 0$ and $36\%6 = 0$ for the first value.

$12\%2 = 0, 12\%6 = 0$ and $24\%12 = 0, 36\%12 = 0$ for the second value. Return 2.

Function Description

Complete the *getTotalX* function in the editor below. It should return the number of integers that are betwen the sets.

getTotalX has the following parameter(s):

- *int a[n]*: an array of integers

- *int b[m]*: an array of integers

Returns

- *int:* the number of integers that are between the sets

Input Format

The first line contains two space-separated integers, n and m, the number of elements in arrays a and b.

The second line contains n distinct space-separated integers $a[i]$ where $0 \le i < n$.

The third line contains m distinct space-separated integers $b[j]$ where $0 \le j < m$.

Constraints

- $1 \le n, m \le 10$

- $1 \le a[i] \le 100$

- $1 \le b[j] \le 100$

Sample Input