https://course.acciojob.com/idle?question=6724980a-4f60-46df-acc1 -7f0144f12959

EASY

Max Score: 30 Points

Count Pair Sum (2 Arrays)

Given two sorted arrays arr1[m] and arr2[n] of distinct elements, the task is to find all pairs from both arrays whose sum is equal to x. The pair has an element from each array.

Input Format

First line contains two space separated integers m and n denoting the size of the two arrays.

Second line contains m space separated integers denoting the elements of the first array.

Third line contains \mathbf{n} space separated integers denoting the elements of the second array.

Fourth line contains a single integer x denoting the sum.

Output Format

Print the count of all pairs from both arrays whose sum is equal to x.

Example 1

Input

4 4 1 2 4 5

3 5 7 8

9

Output

Explanation

The pairs are:

```
(1, 8), (2, 7) and (4, 5)
```

Example 2

```
Input
```

```
3 5
1 2 3
4 5 6 7 8
```

Output

3

Explanation

The pairs are:

```
(1, 7), (2, 6) and (3, 5)
```

Constraints

- 1 <= m, n <= 5*10^4
- 1 <= arr1[i], arr2[i] <= 10^5
- 1 <= x <= 2 * 10^5

Topic Tags

- Hashing
- 2-Pointers
- Binary Search

My code

```
// in java
import java.io.*;
import java.util.*;
class Main {
   public static void main(String args[]) {
      Scanner input = new Scanner(System.in);
      int m = input.nextInt();
      int n = input.nextInt();
      int arr1[] = new int[m];
      int arr2[] = new int[n];
     for (int i = 0; i < m; i++) {
         arr1[i] = input.nextInt();
     for (int i = 0; i < n; i++) {
         arr2[i] = input.nextInt();
      int x = input.nextInt();
      Solution obj = new Solution();
      System.out.println(obj.countElements(arr1, arr2, m, n, x));
}
class Solution {
```