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Missing Numbers

by HackerRank

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Numeros the Artist had two lists that were permutations of one another. He was very proud. Unfortunately, while transporting them from one exhibition to another, some numbers were lost out of the first list. Can you find the missing numbers?

Notes

- If a number occurs multiple times in the lists, you must ensure that the frequency of that number in both lists is the same. If that is not the case, then it is also a missing number.
- You have to print all the missing numbers in ascending order.
- Print each missing number once, even if it is missing multiple times.
- The difference between maximum and minimum number in the second list is less than or equal to 100.

Input Format

There will be four lines of input:

n - the size of the first list, arr
The next line contains n space-separated integers arr_i
m - the size of the second list, brr
The next line contains m space-separated integers brr_i

Constraints

- $1 \leq n, m \leq 2 \times 10^5$
- $n \leq m$
- $1 \leq x \leq 10^4, x \in B$
- $Xmax - Xmin < 101$

Output Format

Output the missing numbers in ascending order.

Sample Input

```
10
203 204 205 206 207 208 203 204 205 206
13
203 204 204 205 206 207 205 208 203 206 205 206 204
```

Sample Output

```
204 205 206
```

Explanation

204 is present in both arrays. Its frequency in arr is 2, while its frequency in brr is 3. Similarly, 205 and 206 occur twice in arr, but three times in brr. The rest of the numbers have the same frequencies in both lists.

Easy Submitted 41007 times
Max Score **45**

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Resources

Caching

Download problem statement

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Suggest Edits

Current Buffer (saved locally, editable) C++14

```
#include <iostream>
#include <vector>
#include<algorithm>

using namespace std;

int main()
{
    int n;
    cin>>n;
    vector<int>arr(n);
        for( int i=0;i<n;i++)
        {
            cin>>arr[i];

        }

     int m;
    cin>>m;
    vector<int>brr(m);
        for(int i=0;i<m;i++)
        {
            cin>>brr[i];

        }


    int min=*min_element(brr.begin(),brr.end());
    cout<<min<<endl;


    vector<int>a2(101);
    for(int i=0;i<m;i++)
    {
```

```
35          a2[brr[i]-min]++;
36
37      }
38
39       vector<int> a1(101);
40      for(int i=0;i<n;i++)
41      {
42          a1[arr[i]-min]++;
43
44      }
45
46      for(int i=0;i<101;i++)
47      {
48
49          if(a2[i]!=a1[i])
50          {
51
52              cout<<i+min<<" ";
53          }
54      }
55
56
57      return 0;
58  }
```

Line: 51 Col: 13

Test against custom input

Run Code | Submit Code

Upload Code as File

```
10
203 204 205 206
207 208 203 204
205 206
13
```

Congrats, you solved this challenge!

Challenge your friends:

✔ Test Case #0 ✔ Test Case #1 ✔ Test Case #2

✔ Test Case #3

You've earned 45.00 points. Next Challenge