Missing Numbers ★

Problem	Submissions	Leaderboard	Discussions	Editorial 🔒

Given two arrays of integers, find which elements in the second array are missing from the first array.

Example

$arr = [7, 2, 5, 3, 5, 3]$

$brr = [7, 2, 5, 4, 6, 3, 5, 3]$

The brr array is the orginal list. The numbers missing are $[4, 6]$.

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.
- Return the missing numbers sorted ascending.
- Only include a missing number once, even if it is missing multiple times.
- The difference between the maximum and minimum numbers in the original list is less than or equal to **100**.

Function Description

Complete the missingNumbers function in the editor below. It should return a sorted array of missing numbers.

missingNumbers has the following parameter(s):

- int arr[n]: the array with missing numbers
- int brr[m]: the original array of numbers

Returns

- int[]: an array of integers

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

- $1 \le n, m \le 2 \times 10^5$
- $n \le m$
- $1 \le brr[i] \le 10^4$
- $max(brr) - min(brr) \le 100$

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.

Author   HackerRank

Difficulty   Easy

Max Score   100

Submitted By   5143

NEED HELP?

📖 View discussions

📖 View editorial

🏆 View top submissions

RATE THIS CHALLENGE

★ ★ ★ ★ ★

MORE DETAILS

⬇ Download problem statement

⬇ Download sample test cases

✎ Suggest Edits

```c
1   #include <assert.h>
2   #include <ctype.h>
3   #include <limits.h>
4   #include <math.h>
5   #include <stdbool.h>
6   #include <stddef.h>
7   #include <stdint.h>
8   #include <stdio.h>
9   #include <stdlib.h>
10  #include <string.h>
11
12  char* readline();
13  char* ltrim(char*);
14  char* rtrim(char*);
15  char** split_string(char*);
16
17  int parse_int(char*);
18
19  /*
20   * Complete the 'missingNumbers' function below.
21   *
22   * The function is expected to return an INTEGER_ARRAY.
23   * The function accepts following parameters:
24   *  1. INTEGER_ARRAY arr
25   *  2. INTEGER_ARRAY brr
26   */
27
28  /*
```

Line: 224 Col: 1

Upload Code as File   ☐ Test against custom input   Run Code   Submit Code