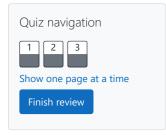
GE23131-Programming Using C-2024



Status Finished Started Monday, 23 December 2024, 5:33 PM Completed Monday, 16 December 2024, 5:14 PM **Duration** 7 days

Question 1 Correct Marked out of □ Flag

question

Sunny and Johnny like to pool their money and go to the ice cream parlor. Johnny never buy does. The only other rule they have is that they spend all of their money.

Given a list of prices for the flavors of ice cream, select the two that will cost all of the money

For example, they have m = 6 to spend and there are flavors costing cost = [1, 2, 3, 4, 5, 6]. costing 1 and 5 meet the criteria. Using 1-based indexing, they are at indices 1 and 4.

Function Description

Complete the code in the editor below. It should return an array containing the indices of the they buy.

It has the following:

- m: an integer denoting the amount of money they have to spend
- cost: an integer array denoting the cost of each flavor of ice cream

Input Format

The first line contains an integer, t, denoting the number of trips to the ice cream parlor. The describe a visit. Each trip is described as follows:

- The integer **m**, the amount of money they have pooled.
- The integer n, the number of flavors offered at the time.
- n space-separated integers denoting the cost of each flavor: cost[cost[1], cost[2], ...,

Note: The index within the cost array represents the flavor of the ice cream purchased.

Constraints

- $1 \le t \le 50$
- $2 \le m \le 10^4$
- $2 \le n \le 10^4$
- $1 \le cost[i] \le 10^4$, " i Î [1, n]
- There will always be a unique solution.

Output Format

For each test case, print two space-separated integers denoting the indices of the two flavors

Sample Input

2

4

5

14532

2243

Sample Output

14

12

Explanation

Sunny and Johnny make the following two trips to the parlor:

- 1. The first time, they pool together m = 4 dollars. Of the five flavors available that day, flacost of 1 + 3 = 4.
- 2. The second time, they pool together m = 4 dollars. TOf the four flavors available that dottal cost of 2 + 2 = 4.

Answer: (penalty regime: 0 %)

| Input | Expected | Got | | | |
|---|------------|---------|--|--|--|
| 2 4 5 1 4 5 3 2 4 4 2 2 4 3 | 1 4 1 2 | 1 4 1 2 | | | |

Passed all tests!

Question **2**Correct
Marked out of

□ Flag question Numeros the Artist had two lists that were permutations of one another. He was very proud. transporting them from one exhibition to another, some numbers were lost out of the first lis numbers?

As an example, the array with some numbers missing, arr = [7, 2, 5, 3, 5, 3]. The original arra 4, 6, 3, 5, 3]. The numbers missing are [4, 6].

Notes

- · If a number occurs multiple times in the lists, you must ensure that the frequency of th 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

Complete the code in the editor below. It should return an array of missing numbers.

- · arr: the array with missing numbers
- · brr: the original array of numbers

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]**

 \emph{m} - the size of the second list, \emph{brr}

The next line contains *m* space-separated integers *brr[i]*

Constraints

- $1 \le n, m \le 2 \times 10^5$
- . n ≤ m
- $1 \le brr[i] \le 2 \times 10^4$
- $X_{max} X_{min} < 101$

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 in *arr*, but three times in *brr*. The rest of the numbers have the same frequencies in both lists

Answer: (penalty regime: 0 %)

| | 13 | 204 204 | | | | | 205 | 206 | 204 | 204 | 205 | 206 | 204 | 205 | 206 |
|--|----|------------|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | |

Passed all tests!

Question **3**Correct
Marked out of 5.00

Flag question

Watson gives Sherlock an array of integers. His challenge is to find an element of the array su elements to the left is equal to the sum of all elements to the right. For instance, given the ar between two subarrays that sum to 11. If your starting array is [11], that element satisfies the to 0.

You will be given arrays of integers and must determine whether there is an element that me

Complete the code in the editor below. It should return a string, either YES if there is an elem NO otherwise.

It has the following:

· arr: an array of integers

Input Format

The first line contains *T*, the number of test cases.

The next **T** pairs of lines each represent a test case.

- The first line contains **n**, the number of elements in the array **arr**.
- The second line contains n space-separated integers arr[i] where $0 \le i < n$.

Constraints

- · 1 ≤ T ≤ 10
- $1 \le n \le 10^5$
- $1 \le arr[i] \le 2 \times 10^4$
- . 0 ≤ i ≤ n

Output Format

For each test case print YES if there exists an element in the array, such that the sum of the el the sum of the elements on its right; otherwise print NO.

Sample Input 0

2

3

123

4

1233

Sample Output 0

NO

YES

Explanation 0

For the first test case, no such index exists.

For the second test case, arr[0] + arr[1] = arr[3], therefore index 2 satisfies the given condition

3

5

11411

4

2000

4

0020

Sample Output 1

YES

YES

YES

Explanation 1

In the first test case, arr[2] = 4 is between two subarrays summing to 2. In the second case, arr[0] = 2 is between two subarrays summing to 0. In the third case, arr[2] = 2 is between two subarrays summing to 0.

Answer: (penalty regime: 0 %)

| Input | Expected | Got |
|---|-------------------|-------------------|
| 3 5 1 1 4 1 1 4 2 0 0 0 4 0 0 2 0 | YES YES YES | YES YES YES |
| 2 3 1 2 3 4 1 2 3 3 | NO YES | NO YES |

Passed all tests!

Save the state of the flags