REC-CIS

# GE23131-Programming Using C-2024



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

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

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

m: an integer denoting the amount of money the have to spend

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

The integer *m*, the amount of money why year.

The integer *n*, the number of flavors offered at the time.

\*\*Telephone denoting the cost of earth of earth of the cost of earth of e

n space-separated integers denoting the cost of each flavor: cost[cost[1], cost[2],..., cost[n]].

1 s t s 50  $2 \le m \le 10^4$  $2 \le n \le 10^4$ 

 $1 \leq \operatorname{cost}[i] \leq 10^4, \text{``} i \, \tilde{I} \, [1, n]$ 

**Output Format** 

14532

2243

Sunny and John

The first time, they pool together m = 4 doilars. Of five flavors available that day, flavors 1 and 4 have a total cost of 1 + 3 = 4.

2. The second time, they pool together m=4 dollars. TOf the four flavors available that day, flavors 1 and 2 have a total cost of 2+2=4.

4 2 2 4 3 Passed all tests! ✓ Numeros the Artist had two lists that were permutation one another. He was very proud. Unfortunately, while transporting them from one exhibition to another, som numbers were lost out of the first list. Can you find the missing numbers? Marked out of 5.00 As an example, the array with some numbers missing, arr = [7, 2, 5, 3, 5, 3]. The original array of numbers brr = [7, 2, 5, 4, 6, 3, 5, 3]. The numbers missing are [4, 6]. 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 Print each missing number once, e-iple times. The difference between maximum and minimum number in the second list is less than or equal to 100. Complete the code in the editor belowarray of missing numbers. arr: the array with missing numbers brr: the original array of Input Format ere 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[l]  $1 \leq n, \, m \leq 2 \times 10^5$ n s m  $1 \leq brr[i] \leq 2 \times 10^4$  $X_{max} - X_{min} < 101$ Output Format Output the missing numbers in ascending or Sample Input 203 204 205 206 207 208 203 204 205 206 203 204 204 205 206 207 205 208 203 206 205 206 2 Sample Output 204 205 206 204 is present in both arrays. Its frequency in arr is 2, while its frequency in br 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. \$Can. } scanf("%d",&m); int br[m]; for(int i=0;icm;i++){ scanf("%d",&brr[i]); ... vAL+1]=[0]; int freq[Mx\_VAL+1]=(0); //initialize f
for(int i=0;icn;i++){
 freq[arr[i]]--; 16 + 17 18 19 + 20 21 22 + 23 24 25 26 27 } } for(int i=0;i<m;i++){ freq[brr[i]]++; } for(int i=1;i<=MAX\_VAL;i++){ if(freq[i]>0) printf("%d ",i); printf("\n");
return 0; 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 Watson gives Sherlock an array of integers. His challenge to find an element of the array such that the sum of all elements to right For instance, given the array or = 5.5.68, 111.8 is

array arr.

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

#### Constraints

- Constrain
- · 1 ≤ T ≤ 10
  - 1 ≤ n ≤ 10<sup>5</sup> 1 ≤ arr[i] ≤ 2 x 10<sup>4</sup>
  - 0 s i s n

#### **Output Format**

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

#### Sample Input 0

- 2
- 3
  - 123
  - 4

### 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 conditions.

# Sample Input 1

5

11411

4

2000

40

0020

### Sample Output 1

YES

YES

#### planation i

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

In the third case, arr[2] = 2 is between two subarrays summing to 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	ND YES	~