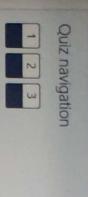
GE23131-Programming Using C-2024



Question 1 Marked out of Correct

5.00 Y Flag question

Status Finished

Saturday, 28 December 2024, 12:03 PM

Saturday, 28 December 2024, 1:14 PM

Completed

Show one page at a time

Finish review

Duration 1 hour 11 mins

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

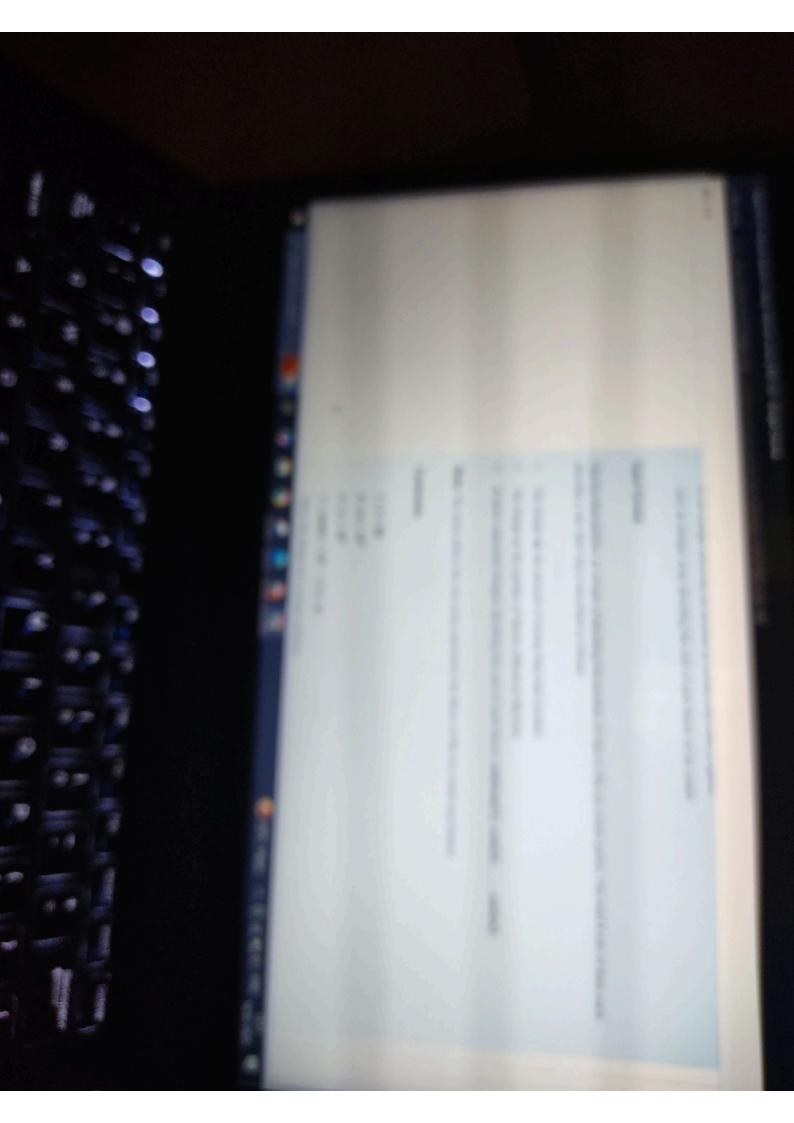
Given a list of prices for the flavors of ice cream, select the two that will cost all of the money they have

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

Function Description

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



in, 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

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

- 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], ..., cost[n]].

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 i [1, n]

There will always be a unique solution.

28°C Haze

Sample Output

14

12

Explanation

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

- cost of 1 + 3 = 4. 1. The first time, they pool together m = 4 dollars. Of the five flavors available that day, flavors 1 and 4 have a total
- total cost of 2 + 2 = 4. 2. The second time, they pool together m = 4 dollars. Tof the four flavors available that day, flavors 1 and 2 have a

Answer: (penalty regime: 0 %)

```
1 # include<stdio.h>
2 int main()
int t,m,n,c=0;
scanf("%d",&t);
for(int 1=0;1<t;1++){</pre>
```

W

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

Answer: (penalty regime: 0 %)

```
110
111
112
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23
                                                                                                                                                                                                                                                                           1 # include<stdio.h>
                                                                                                                                                                                                                                                           int main()
          return 0;
                                                                                                                                                                                                             for(int i=0;i<t;i++){
                                                                                                                                                                                                                         scanf("%d", &t);
                                                                                                                                                                                                                                     int t,m,n,c=0;
                                                                                                                                                                                                 ( =0;
                                                                                                                                              for(int j=0;j<n;j++){
    scanf("%d",&arr[j]);</pre>
                                                                                                                                                                        int arr[n];
                                                                                                                                                                                   scanf("%d\n%d",&m,&n);
                                                                                                                       for(int a=0;a<n-1;a++){
                                                                                                           for(int b=a+1;b<n;b++){
                                               } if(c==1)break;
                                                                                                if(arr[a]+arr[b]==m){
                                                                       c=1; break;
                                                                                   printf("%d %d\n",a+1,b+1);
```

EV

Passed all tests! V

87

Question 2

Correct

Marked out of 5.00

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

5, 4, 6, 3, 5, 3]. The numbers missing are [4, 6]. 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, 3, 5, 3].

Notes

- the same. If that is not the case, then it is also a missing number. If a number occurs multiple times in the lists, you must ensure that the frequency of that number in both lists is
- 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

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

V

It has the following:

are the arranuith micrine number

the same. If that is not the case, then it is also a missing number. If a number occurs multiple times in the lists, you must ensure that the frequency of that number in both lists is

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.

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

It has the following:

- 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]

m - the size of the second list, brr

V

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

Constraints

 $1 \le n, m \le 2 \times 10^5$

n ≤ m

 $1 \leq brr[i] \leq 2 \times 10^4$

 $X_{max} - X_{min} < 101$

Output Format

Output the missing numbers in ascending order.

Sample Input

10

13

W

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.

Answer: (penalty regime: 0 %)

```
10
                                                                                                                                                                                                                                1 # include<stdio.h>
                                                                                                                                                                                                                int main()
                              int brr[m],ans[m];
for(int b=0;b<m;b++){</pre>
                                                                                                             for(int a=0;a<n;a++){
    scanf("%d",&arr[a]);</pre>
                                                                                                                                                scanf("%d",&n);
int arr[n];
                                                                                                                                                                                int n,m,c,c1=0,c0;
                                                               scanf("%d",&m);
scanff" a" Sher[hll:
```

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```
2
10
                                                                                                                                                                           for(int a=0;a<n;a++){
    scanf("%d",&arr[a]);</pre>
                                                                                                                                                                                             scanf("%d",&n);
                                                                                                                                             int brr[m],ans[m];
for(int b=0;b<m;b++){</pre>
                                                                                                                                                                                       int arr[n];
                                                                                                                                                         scanf("%d",&m);
                                                                                                               for(int j=0; j<m; j++)
                                                                                                                                scanf("%d",&brr[b]);
                                                                                      for(int i=0;i<n;i++){
                      1f(c==0) {
         ans[c1]-brr[j];
                                                                          if(arr[i]==brr[j]){
                                                   arr[i]=-1;
break;
                                                               C=1;
```

```
1,00++;
        ans[a]=ans[co];
ans[co]=temp;
                                    for(int b=0 ;b<c1;b++){
if(ans[b]<ans[a])</pre>
                  int temp=ans[a];
                                                   for(int a=0; a<c1;a++){
for(int i=0;i<c1;i++)
                                                                                         if(c==0) {
                                                                          ans[c1]=brr[j];
c1++;
                                                                                                                 arr[i]=-1;
break;
```

ST

<

10

Expected

Got

Input

```
43
44
44
45
45
46
47
48
48
                                                         (0++;
                ans[co]=temp;
                        ans[a]=ans[co];
                                                                          for(int b=0; b<c1; b++){
                                int temp=ans[a];
                                                                 if(ans[b]<ans[a])
for(int i=0;i<c1;i++)
```

			<	
203	ш	203	10	Input
204		204		ut
204		205		
205		206		
206		207		
207		208		
205		203		
208		204		
203		205		
206		206		
205				
206				
204				
			204 205 206	Expected
			204	Got
			205	
			206	
			<	

Passed all tests! ~

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> between two subarrays that sum to 11. If your starting array is [1], that element satisfies the rule as left and right sum to elements to the left is equal to the sum of all elements to the right. For instance, given the array arr = [5, 6, 8, 11], 8 is Watson gives Sherlock an array of integers. His challenge is to find an element of the array such that the sum of all

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between two subarrays that sum to 11. If your starting array is [1], that element satisfies the rule as left and right sum to

You will be given arrays of integers and must determine whether there is an element that meets the criterion.

Complete the code in the editor below. It should return a string, either YES if there is an element meeting the criterion or 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

57

Output Format Output Format

For each test idase print YES in there exists briefen ent 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: array, such that the sum of the elements on its left is equal

Sample input 0 Sample input 0

4 4 4 4 W W W W W W

Sample Output 0 Sample Output 0

商高

Explanation 0

D

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

11411

2000

0020

Sample Output 1

YES

YES

YES

V

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 %)

```
50
                                                                           17
                                                                                                                14
                                                                                                                             12 11
                                                                                                                                                                                                                                                                                      1 # include<stdio.h>
                                                                                                                                                                                                                                                                     int main()
Lecmun e?
                                                                                                                                                                                                                                  scanf("%d",&t);
                                                                                                                                                                                                                     for(int i-0; i<t;i++){
                                                                                                                                                                                                                                             int t,n, IS, rs, m;
                                                                                                                                                                                                        15-0;
                     printf("%%\n",(IS--rs)?"YES":"NO");
                                   rs-rs-arr[j];
                                              for(int j-m; j:n; j++)
                                                                                                                                                                              scanf("%d",&n);
                                                                                                                                                                                            rs-0;
                                                            for(int j=0;j<=m;j++)
IS=IS+arr[j];</pre>
                                                                                                                             m-n/2;
                                                                                                                                        scanf("%d", &arr[j]);
                                                                                                               1f(arr[m]--0)(
                                                                                                                                                     for(int j-0;j<n;j++)
                                                                                                                                                                 int arr[n];
                                                                                                  for(m=0;arr[m]==088 m<n; m++);
```

27

Answer: (penalty regime: 0 %)

```
2 int main()
                                                                                                                                                                                                                                                                                                                                                1 # include<stdio.h>
                                                                                                                                                                                                                                                                             int t,n,IS,rs,m;
scanf("%d",&t);
                                                                                                                                                                                                                                                           for(int i=0; i<t;i++){
                                                                                                                                                     for(int j=0;j<n;j++)
scanf("%d",&arr[j]);</pre>
printf("%s\n",(IS==rs)?"YES":"NO");
                 rs-rs+arr[j];
                                for(int j-m;j<n;j++)
                                                                                                                                        m-n/2;
                                                                                                                                                                                                         scanf("%d",&n);
                                                                                                                                                                                                                             rs=0;
                                                                                                                                                                                                                                          15-0;
                                                  for(int j=0;j<=m;j++)
IS=IS+arr[j];</pre>
                                                                                                                    if(arr[m]==0){
                                                                                                                                                                                        int arr[n];
                                                                                                    for(m=0;arr[m]==088 m<n; m++);
```

```
18
19
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25
                 return 0;
                                           IS=IS+arr[j];
for(int j=m;j<n;j++)
rs=rs+arr[j];</pre>
                                   printf("%s\n",(IS==rs)?"YES":"NO");
```

	,											
	-							(
Input	w	UT	-	4	2	4	0	2	w	100	4	-
P			-		0		0			N		N
7			4		0 0		N			w		w
			100		0		0					w
			14									
Expected Got	YES	YES	YES					NO	YES			
Got	YES	YES	YES					NO	YES			
	<							<				

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Passed all tests! <