Question **1**Correct
Marked out of 5.00

Flag question

Sunny and Johnny like to pool their money and go to the ice 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.

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

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 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 prices of the two flavors 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

```
#include<stdio.h>
 2
     int main()
 3 🔻
         int t, n,m;
scanf("%d", &t);
while(t--)
 4
 5
 6
 7
              scanf("%d", &m);
scanf("%d", &n);
 8
 9
              int arr[n];
10
              for(int i=0; i<n;i++) scanf("%d", &arr[i]);</pre>
11
12
              for(int i=0; i<n; i++)</pre>
13
14 🔻
                   for(int j=i+1; j<n; j++)</pre>
15
16
                   {
                        if(arr[i]+arr[j]==m) printf("%d %d\n", i+1, j+1);
17
18
19
20
21
         return 0;
22 }
```

Question **2**Correct
Marked out of 5.00

Frag question

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?

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].

## 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.

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

```
#include <stdio.h>
     int main()
 2
 3 ,
         int n, m,c,c1=0,co;
scanf("%d", &n);
 4
 5
 6
          int arr[n];
         for(int i=0; i<n; i++) scanf("%d", &arr[i]);</pre>
 8
          scanf("%d", &m);
          int brr[m];
10
          for(int j=0; j<m;j++) scanf("%d", &brr[j]);</pre>
11
          int ans[m];
12
          for(int j=0; j<m;j++)</pre>
13
14
              for(int i =0; i<n;i++)</pre>
15
16
17
                   if(arr[i]==brr[j]){
                       c=1;
arr[i]=-1;
18
19
20
21
                   }
22
              if(c==0){
23
                  ans[c1]=brr[j];
24
25
                  c1++;
26
              }
27
         for(int a=0;a<c1;a++)</pre>
28
29
30
              co=0;
31
              for(int b=0; b<c1;b++)</pre>
32
                   if(ans[b]<ans[a]) co++;</pre>
33
34
35
              int temp=ans[a];
              ans[a]=ans[co];
36
37
              ans[co]=temp;
```

```
38 }
39 for(int i=0; i<c1; i++) printf("%d ", ans[i]);
40 return 0;
41 }
```

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 such that the sum of all 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 between two subarrays that sum to 11. If your starting array is [11], that element satisfies the rule as left and right sum to 0.

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  ${\it T}$  pairs of lines each represent a test case.

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

```
#include <stdio.h>
     int main()
 2
 3 ,
     {
         int t,n, lsum=0, rsim=0,k=0;;
scanf("%d", &t);
 4
 5
 6
         while(t--){
              scanf("%d", &n);
              int arr[n];
 8
 9
              for(int i=0; i<n; i++) {</pre>
                  scanf("%d", &arr[i]);
lsum+=arr[i];
10
11
12
              }
13
              for(int j=n-1; j>=0; j--)
14
15
                  lsum-=arr[j];
if(lsum==rsim) k++;
16
17
                   rsim+=arr[j];
18
19
              if(k!=0) printf("YES\n");
20
21
              else
22
              printf("NO\n");
23
24
         }
25
26
         return 0;
27 }
```