Question 1
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Sunny and Johnny like to pool their money and go to the ice cream parior. 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

## Input Format

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

- 1. The integer m, the amount of money they have pooled.
- 2. The integer a, 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.

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## Constraints

## Constraints . 1 st = 50 . 2 s m s 104 . 2 s n s 104 . 1 s cost[i] s 104, "if[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 purchased, in ascending order. Sample Input 2 14532 2243 Sample Output

Act

Go 1

14

12

#### Explanation

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

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

## Answer: (penalty regime: 0 %)



	Input	Expected	Got	
~	2	1 4	1 4	~
	4	1 2	1 2	
	5			
	14532			
	4			
	4			
	2243			

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 arr = [7, 2, 5, 4, 6, 3, 5, 3]. The numbers missing are [4, 6]. P Rag question 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 brn 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 in space-separated integers orr[i] m - the size of the second list, ber

**Activate Windows** The next line contains an space-separated integers brr[i] Go to Settings to activate Windo

# Constraints

1 s n, m s 2 x 105

1 s brr[l] s 2 x 104  $X_{max} - X_{min} < 101$ 

**Output Format** 

Output the missing numbers in ascending order.

## Sample Input

10

203 204 205 206 207 208 203 204 205 206 13

have the same frequencies in both lists.

Sample Output

Explanation

204 205 206

203 204 204 205 206 207 205 208 203 206 205 206 204

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

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```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
       int main()
   2
   3 .
           int n,m,c,c1=0,c0;
    4
   5
           scanf("%d",&n);
    6
           int arr[n];
   7
           for(int a=0;a<n;a++)
   8
               scanf("%d",&arr[a]);
   9
  18
  11
           scanf("%d",&m);
           int brr[m], ans[m];
  12
  13
           for(int b=0;b<m;b++)
  14 .
  15
               scanf("%d",&brr[b]);
  16
  17
           for(int j=0;j<m;j++)
  18 .
  19
               C=0;
   28
               for(int i=0;i<n;i++)
  21 .
  22
                   if(arr[i]==brr[j])
   23 .
   24
                        C=1;
   25
                        arr[i]=-1;
   26
                        break;
  27
  28
   29
           if(c==0)
   30 .
               ans[c1]=brr[j];
  31
  32
               C1++;
  33
  34
  35
           for(int a=0;a<c1;a++)
   36 .
  37
               CO=0;
  38
               for(int b=0;b<c1;b++)
  39 .
   48
                   if(ans[b]<ans[a])
  41 .
   42
                        CO++;
```

43

}

```
22
                if(arr[i]==brr[j])
23 +
24
                    C=1;
25
                    arr[i]=-1;
26
                    break;
27
28
            }
29
        if(c==0)
30 .
31
            ans[c1]=brr[j];
32
            C1++;
33
34
        }
35
        for(int a=0;a<c1;a++)
36 +
37
            CO=0;
            for(int b=0;b<c1;b++)
38
39 .
                if(ans[b]<ans[a])
40
41 .
42
                    CO++;
43
44
45
            int temp =ans[a];
46
            ans[a]=ans[co];
47
            ans[co]=temp;
```

for(int i=0;i<c1;i++)

printf("%d ",ans[i]);

48

49 50

51 }

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	Input	Expected	Got	
~	18 283 284 285 286 287 288 283 284 285 286 13 283 284 284 285 286 287 285 288 283 286 285 286 284	284 205 206	284 285 286	~

Correct Marked out of 5.00 F Rag question

Question 3 Watson gives Sheriock 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 [1], 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 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 arrfl where 0 ≤ l < n.</li>

#### Constraints

- 1 . T . 10
  - 1 s n s 105
- 1 s arr[i] s 2 x 10"
- Osisn

## **Output Format**

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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 eq. NO.	ual to the sum of the elements on its right; otherwise prin
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 conditions.	
Sample Input 1	
3	
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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 %)

## Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
   int main()
 2
 3 . {
 4
        int T,n,i,left_sum,right_sum;
 5
        scanf("%d",&T);
 6
        while(T--)
 7
        {
            scanf("%d",&n);
 8
 9
            int arr[n];
10
            for(i=0:i<n:i++)
11 .
                scanf("%d",&arr[i]);
12
13
14
            left_sum=0;
15
            right_sum=0;
16
            for(i=0;i<n;i++)
17
18
                right_sum+=arr[i];
19
20
            for(i=0;i<n;i++)
21
22
                right_sum-=arr[i];
23
                if(left_sum==right_sum)
24 .
25
                    printf("YES\n");
26
                    break;
27
28
                left_sum+=arr[i];
29
            if(left_sum!=right_sum)
30
31 .
32
                printf("NO\n");
33
34
35
        return 0;
36
```