Name: ARAVIND RAJESH Reg No: 240701046 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

WEEK-07

Note: The index within the cost array represents the flavor of the ice cream purchased. **Constraints** $1 \le t \le 50$ $2 \le m \le 10^4$ $2 \le n \le 10^4$ $1 \le \cos[i] \le 10^4$, " $i \hat{l} [1, n]$ There will always be a unique solution. **Output Format**

flavors purchased, in ascending order. **Sample Input** 2 4

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

flavors 1 and 4 have a total cost of 1 + 3 = 4.

Answer: (penalty regime: 0 %)

int main(){

{

#include<stdio.h>

int t,m,n,c=0;

scanf("%d",&t);

for(int i=0;i<t;i++)</pre>

int arr[n];

scanf("%d\n%d",&m,&n);

for(int a=0;a<n-1;a++){</pre>

if(c==1)break;

Expected Got

lost out of the first list. Can you find the missing numbers?

1 4

1 2

/

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

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

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

The difference between maximum and minimum number in the second list is less than

that number in both lists is the same. If that is not the case, then it is also a missing number.

array of numbers **brr** = [7, 2, 5, 4, 6, 3, 5, 3]. The numbers missing are [4, 6].

You have to print all the missing numbers in ascending order.

Print each missing number once, even if it is missing multiple times.

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

1 4

1 2

scanf("%d",&arr[j]);

for(int b=a+1;b<n;b++){</pre>

break;

if(arr[a]+arr[b]==m){

printf("%d %d\n",a+1,b+1);

for(int j=0;j<n;j++)</pre>

day, flavors 1 and 2 have a total cost of 2 + 2 = 4.

The first time, they pool together m = 4 dollars. Of the five flavors available that day,

The second time, they pool together m = 4 dollars. TOf the four flavors available that

14532

2243

Sample Output

Explanation

4

4

14

12

1.

2.

2 🔻

3

4 5

6 ▼

7

8

9

10 11 ▼

12 13 14

15 ▼

16 ▼

17 •

18 19 20

30 31 32

return 0;

Input

1 4 5 3 2

2 2 4 3

Passed all tests! <

Question 2

Marked out of 5.00

Flag question

Notes

or equal to **100**.

It has the following:

Input Format

Constraints

 $n \leq m$

Output Format

Sample Input

Sample Output

204 205 206

Explanation

1

3

4 5

6 ▼

7 8

9

10 11 🔻

15

16 •

17 ▼ 18

19 20

21 22

23 🔻

24 25

26 27

28 🔻 29

30 ▼ 31

32

33 34

35

36

37 38

39

40 41

42 43

10

13

arr: the array with missing numbers

The next line contains *n* space-separated integers *arr[i]*

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

brr: the original array of numbers

There will be four lines of input:

n - the size of the first list, **arr**

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

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

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

Output the missing numbers in ascending order.

203 204 205 206 207 208 203 204 205 206

have the same frequencies in both lists.

Answer: (penalty regime: 0 %)

2 √ int main(){

#include<stdio.h>

int n,m,c,c1=0,co;

for(int a=0;a<n;a++){</pre>

scanf("%d",&arr[a]);

scanf("%d",&brr[b]);

for(int i=0;i<n;i++){</pre>

c=1;

break;

ans[c1]=brr[j];

for(int b=0;b<c1;b++){</pre>

co++;

int temp=ans[a];

ans[a]=ans[co];

ans[co]=temp;

for(int i=0;i<c1;i++)</pre>

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

203 204 205 206 207 208 203 204 205 206

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

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.

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

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

your starting array is [1], that element satisfies the rule as left and right sum to 0.

For instance, given the array arr = [5, 6, 8, 11], 8 is between two subarrays that sum to 11. If

return 0;

}

Input

10

13

Question **3**

Marked out of 5.00

meets the criterion.

It has the following:

Input Format

Constraints

 $1 \le T \le 10$

 $1 \le n \le 10^5$

 $0 \le i \le n$

Output Format

Sample Input 0

2

3

4

NO

YES

123

1233

Sample Output 0

Explanation 0

conditions.

3

5

4

4

11411

2000

0020

YES

YES

YES

Explanation 1

1

3

4

7

8 9

10 ▼

11

12 13

14 ▼

15 16

17 18

19

20

21 22

23 24 25

26

}

Input

1 1 4 1 1

2 0 0 0

0 0 2 0

3

2

3

1 2 3

1 2 3 3

Passed all tests! <

Quiz navigation

Finish review

Show one page at a time

5 ▼ 6

2 🔻

Answer: (penalty regime: 0 %)

int main(){

#include<stdio.h>

int t,n,is,rs,m;

for(int i=0;i<t;i++){</pre>

scanf("%d",&n);

if(arr[m]==**0**){

is=is+arr[j];

rs=rs+arr[j];

Expected Got

YES YES

YES

N0

YES

YES

YES YES

N0

YES

✓

Finish review

for(int j=0;j<n;j++){</pre>

for(int j=0;j<=m;j++)</pre>

for(int j=m;j<n;j++)</pre>

scanf("%d",&arr[j]);

for(m=0;arr[m]==0&&m<n;m++);</pre>

printf("%s\n",(is==rs)?"YES":"N0");

int arr[n];

scanf("%d",&t);

is=**0**;

rs=0;

}

return 0;

m=n/2;

Sample Output 1

Sample Input 1

For the first test case, no such index exists.

 $1 \le arr[i] \le 2 \times 10^4$

element meeting the criterion or NO otherwise.

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 $0 \le i < n$.

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.

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

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.

arr: an array of integers

Flag question

Correct

Passed all tests! <

if(ans[b]<ans[a])</pre>

Expected

204 205 206

Got

204 205

if(arr[i]==brr[j]){

arr[i]=**-1**;

scanf("%d",&n);

scanf("%d",&m);

C=0;

int brr[m],ans[m];

for(int b=0;b<m;b++){</pre>

for(int j=0;j<m;j++){</pre>

if(c==0){

co=0;

c1++;

for(int a=0;a<c1;a++){</pre>

int arr[n];

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

m - the size of the second list, brr

Correct

2

4 5

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

The integer m, the amount of money they have pooled. 1. The integer n, the number of flavors offered at the time. 2. 3. ., cost[n]].

Input Format next t sets of lines each describe a visit. Each trip is described as follows: n space-separated integers denoting the cost of each flavor: cost[cost[1], cost[2], ...

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 The first line contains an integer, t, denoting the number of trips to the ice cream parlor. The

prices of the two flavors they buy.