

Week 7

Mahathi.b

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Csd

Week-07-01-Practice Session-Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

GE23131-Programming Using C-2024

Quiz navigation

1 2 3

Show one page at a time

Finish review

Status: Finished

Started: Tuesday, 14 January 2025, 9:23 PM

Completed: Tuesday, 14 January 2025, 10:28 PM

Duration: 1 hour 5 mins

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

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```
1 #include<stdio.h>
2 int main()
3 {
4     int t,m,n,c=0;
5     scanf("%d",&t);
6     for(int i=0;i<t;i++)
7     {
8         c=0;
9         scanf("%d",&m,&n);
10        int arr[n];
11        for(int j=0;j<n;j++)
12        {
13            scanf("%d",&arr[j]);
14        }
15        for(int a=0;a<n-1;a++)
16        {
17            for(int b=a+1;b<n;b++)
18            {
19                if (arr[a]+arr[b]==m)
20                {
21                    printf("%d %d\n",a+1,b+1);
22                    c=1;break;
23                }
24            } if (c==1) break;
25        }
26    }
27    return 0;
28 }
29
30
```

	Input	Expected	Got	
✓	2	1 4	1 4	✓
✓	4	1 2	1 2	✓

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Question 2  
Correct

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].

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

**Input Format**

There will be four lines of input:

#

Productivity

3D Viewer

A

Adobe Acrobat

C

Calculator

Calendar

Camera

Clock

Copilot

Cortana

F

Firefox

Firefox Private Browsing

G

Game Bar

System

Microsoft 365...

Microsoft Edge

Photos

Microsoft To...

Microsoft Store

Solitaire & Ca...

See all your mail in one place

Mail

Type here to search

25°C Partly cloudy

02:24

16-01-2025

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Question 2  
Correct  
Marked out of 5.00  
Flag 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

**Input Format**

There will be four lines of input:

Type here to search

25°C Partly cloudy

02:24

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Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,m,c,c1=0,co;
5     scanf("%d",&n);
6     int arr[n];
7
8     for (int a=0 ; a<n ;a++)
9     {
10         scanf("%d",&arr[a]);
11     }
12     scanf("%d",&m);
13     int brr[m],ans[m];
14     for(int b=0 ; b<m ; b++ )
15     {
16         scanf("%d",&brr[b]);
17     }
18
19     for(int j=0;j<m;j++)
20     {
21         c=0;
22         for(int i=0;i<n;i++)
23         {
24             if (arr[i]==brr[j])
25             {
26                 c++;
27                 arr[i]=-1;
28                 break;
29             }
30         }
31         if(c==0)
32         {
33             ans[c1]=brr[j];
34             c1++;
35         }
36     }
37     for(int a=0;a<c1;a++)
```

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```
28         break;
29     }
30 }
31 if(c==0)
32 {
33     ans[c1]=brr[j];
34     c1++;
35 }
36 }
37 for(int a=0;a<c1;a++)
38 {
39     co=0;
40     for(int b=0;b<c1;b++)
41     {
42         if (ans[b]<ans[a])
43             co++;
44     }
45     int temp=ans[a];
46     ans[a]=ans[co];
47     ans[co]=temp;
48 }
49 for(int i=0;i<c1;i++)
50 printf("%d ",ans[i]);
51
52
```

Input	Expected	Got	
✓ 10	204 205 206	204 205 206	✓
203 204 205 206 207 208 203 204 205 206			
13			
203 204 204 205 206 207 205 208 203 206 205 206 204			

Passed all tests! ✓

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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  $T$  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  $0 \leq i < n$ .

**Constraints**

- $1 \leq T \leq 10$
- $1 \leq n \leq 10^5$
- $1 \leq arr[i] \leq 2 \times 10^4$

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Answer: (penalty regime: 0 %)

```

1 #include<stdio.h>
2 int main()
3 {
4     int i,t,n,ls,rs,m;
5     scanf("%d",&t);
6     for (i=0; i<t; i++)
7     {
8         ls=0;
9         rs=0;
10        scanf("%d",&n);
11        int arr[n];
12        for(int j=0;j<n;j++)
13            scanf("%d",&arr[j]);
14        m=n/2;
15        if(arr[m]==0){
16            for(m=0;arr[m]==0 &&m<n;m++);
17        }
18        for(int j=0;j<m;j++)
19            ls=ls+arr[j];
20        for(int j=m;j<n;j++)
21            rs=rs+arr[j];
22        printf("%s\n",(ls==rs)?"YES":"NO");
23    }
24    return 0;
25 }

```

	Input	Expected	Got	
✓	3	YES	YES	✓
	5	YES	YES	
	1 1 4 1 1	YES	YES	
	4			
	2 0 0 0			