



Dashboard

My courses



CS23331-DAA-2024-CSE / 4-Two Elements sum to x

4-Two Elements sum to x

Started on	Wednesday, 24 September 2025, 8:10 AM
State	Finished
Completed on	Wednesday, 24 September 2025, 8:39 AM
Time taken	28 mins 4 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00 

Problem Statement:

Given a sorted array of integers say arr[] and a number x. Write a recursive program using divide and conquer strategy to check if there exist two elements in the array whose sum = x. If there exist such two elements then return the numbers, otherwise print as "No".

Note: Write a Divide and Conquer Solution

Input Format

First Line Contains Integer n – Size of array

Next n lines Contains n numbers – Elements of an array

Last Line Contains Integer x – Sum Value

Output Format

First Line Contains Integer – Element1

Second Line Contains Integer – Element2 (Element 1 and Elements 2 together sums to value "x")

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int arr[100];
```

```

3 int s,n;
4
5 v int find_pair(int l, int r, int *a,int *b){
6 v     if(l >= r){
7         return 0;
8     }
9     int sum = arr[l]+arr[r];
10
11 v     if(sum == s){
12         *a = arr[l];
13         *b = arr[r];
14         return 1;
15     }
16 v     else if(sum > s){
17         return find_pair(l,r-1,a,b);
18     }
19 v     else {
20         return find_pair(l+1,r,a,b);
21     }
22 }
23 v int main(){
24
25     scanf("%d", &n);
26
27 v     for(int i=0;i<n;i++){
28         scanf("%d", &arr[i]);
29     }
30
31     scanf("%d", &s);
32
33     int a,b;
34 v     if(find_pair(0,n-1, &a, &b)){
35         printf("%d\n%d", a,b);
36     }
37 v     else{
38         printf("No");
39     }
40     return 0;
41 }
```

	Input	Expected	Got	
✓	4	4	4	✓
	2	10	10	
	4			
	8			
	10			
	14			
✓	5	No	No	✓
	2			

4
6
8
10
100

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Finish review

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Data retention summary