

CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

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Quiz navigation



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Started on	Thursday, 19 September 2024, 6:53 PM
State	Finished
Completed on	Thursday, 19 September 2024, 6:58 PM
Time taken	4 mins 52 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

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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 main(){
3     int n,x;
4     scanf("%d",&n);
5     int arr[n];
6     for(int i=0;i<n;i++){
7         scanf("%d",&arr[i]);
8     }
9     scanf("%d",&x);
10    int count=0;
11    for(int i=0;i<n;i++){
12        for(int j=i+1;j<n;j++){
13            if(arr[i]+arr[j]==x){
14                printf("%d\n%d",arr[i],arr[j]);
15                count++;
16            }
17        }
18    }
19    if(count==0){
20        printf("No");
21    }
22 }
```

	Input	Expected	Got	
✓	4 2 4 8 10 14	4 10	4 10	✓
✓	5 2 4 6 8 10 100	No	No	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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