<u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Divide and Conquer</u> / <u>4-Two Elements sum to x</u>

Started on	Thursday, 19 September 2024, 10:23 AM
State	Finished
Completed on	Thursday, 19 September 2024, 11:29 AM
Time taken	1 hour 6 mins
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 %)

```
#include <stdio.h>
3 void fp(int a[],int s,int e,int x){
        int l=s, r=e;
4
5 ,
        while(1<r){
             int sum=a[1]+a[r];
6
7 ,
             if (sum==x){
                 printf("%d\n%d\n",a[1],a[r]);
8
9
                 return;
10
             }else if(sum<x) {</pre>
11
                 1++;
12
             }else{
13
14
15
16
        printf("No\n");
17
18 v int main(){
19
        int n,x;
        scanf("%d",&n);
20
21
        int a[n];
22
        for (int i=0;i<n;i++) {scanf("%d", &a[i]);}</pre>
        scanf("%d", &x);
23
24
        fp(a,0,n-1,x);
25
        return 0;
26
    }
27
28
```

	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.

◄ 3-Finding Floor Value

Jump to...

5-Implementation of Quick Sort ►