Started on	Wednesday, 2 October 2024, 7:43 PM
State	Finished
Completed on	Wednesday, 2 October 2024, 7:51 PM
Time taken	8 mins 24 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 %)

```c
#include<stdio.h>
#include<stdbool.h>
bool Sum(int arr[],int left,int right,int x){
    while(left<right){
        int sum = arr[left]+arr[right];
        if(sum==x)
        {
            printf("%d\n",arr[left]);
            printf("%d\n",arr[right]);
            return true;
        }
        else if(sum<x)
        {
            left++;

        }
        else{
            right--;
        }

    }
    return false;
}
int main()
{
    int n,x;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    {
        scanf("%d",&arr[i]);
    }
    scanf("%d",&x);
    if(!Sum(arr,0,n-1,x))
   {
       printf("No\n");
   }
    return 0;
}
```

	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.

◄ 3-Finding Floor Value

Jump to...

5-Implementation of Quick Sort ►