4-Two Elements sum to x

Started on	Tuesday, 9 September 2025, 12:31 PM
State	Finished
Completed on	Tuesday, 9 September 2025, 12:56 PM
Time taken	24 mins 51 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question 1 | Correct Mark 1.00 out of 1.00 Flag question

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>
int main(){
    int m;
    scanf("%d",&m);
    int n[m];
    int x;
    int c=0;

    for(int i=0;i<m;i++){
        scanf("%d",&n[i]);
    }
    scanf("%d",&x);
    for(int i=0;i<m;i++){
        for(int j=i+1;j<m;j++){
            if(n[i]>n[j]){
                int temp=n[i];
                n[i]=n[j];
                n[j]=temp;
            }
        }
    }

    int l=0,r=m-1;
    while(l<r){
        int sum=n[l]+n[r];
        if(sum==x){
            printf("%d\n%d\n",n[l],n[r]);
            c=1;
            break;
        }
        else if(sum<x){
            l++;
        }
        else{
            r--;
        }
    }
    if(!c){
        printf("No");
    }
}
```

	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.

Finish review

Back to Course