RAJALAKSHMI ENGINEERING COLLEGE

VARSHINI S 2024-CSE

V2

Started on	Wednesday, 17 September 2025, 8:52 AM
State	Finished
Completed on	Friday, 3 October 2025, 12:12 PM
Time taken	16 days 3 hours
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>
int main(){
    int n,x,count=0;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++){
        scanf("%d",&arr[i]);
    }
    scanf("%d",&x);
    for(int i=0;i<n;i++){
        for(int j=i+1;j<n;j++){
            if(arr[i]+arr[j]==x){
                count++;
                printf("%d\n",arr[i]);
                printf("%d",arr[j]);
                break;
            }
        }
    }
    if(count==0){
        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.

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