CS23331-DAA-2024-CSE / 4-Two Elements sum to x

## 4-Two Elements sum to x

Started on Saturday, 20 September 2025, 9:04 PM Completed on Saturday, 20 September 2025, 9:21 PM Time taken 16 mins 56 secs Marks 1.00/1.00 Grade 10.00 out of 10.00 (100%)

## 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 %)

```
if(high<low) return 0;
      int sum=arr[low]+arr[high];
     if(sum==x){
    *a=arr[low];
    *b=arr[high];
     else if(sum<x){
    return dac(arr,low+1,high,x,a,b);</pre>
int main()
     }
int x,a,b;
scanf("%d",&x);
if(dac(arr,0,n-1,x,&a,&b)){
    printf("%d\n%d",a,b);
}
```

	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.

Finish review

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