

[Dashboard](#) [My courses](#)

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

4-Two Elements sum to x

Started on	Tuesday, 30 September 2025, 10:10 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 10:32 PM
Time taken	21 mins 50 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 %)

```

1 #include <stdio.h>
2
3 void findPair(int arr[], int low, int high, int x, int *found) {
4     if (low >= high) {
5         if (!(*found))
6             printf("No\n");
7         return;
8     }
9     int sum = arr[low] + arr[high];
10    if (sum == x) {
11        printf("%d\n%d\n", arr[low], arr[high]);
12        *found = 1;
13        return;
14    }
15    else if (sum < x)
16        findPair(arr, low + 1, high, x, found);
17    else
18        findPair(arr, low, high - 1, x, found);
19    }
20
21 int main() {
22     int n;
23     scanf("%d", &n);
24     int arr[n];
25     for(int i = 0; i < n; i++)
26         scanf("%d", &arr[i]);
27     int x;
28     scanf("%d", &x);
29     int found = 0;
30     findPair(arr, 0, n - 1, x, &found);
31     return 0;
32 }
```

	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](#)

[Back to Course](#)

Data retention summary