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**Started on** Wednesday, 17 September 2025, 11:30 AM

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**State** Finished

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**Completed on** Wednesday, 22 October 2025, 10:25 AM

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**Time taken** 34 days 22 hours

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**Marks** 1.00/1.00

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**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 void findPairRecursive(int arr[], int left, int right, int x) {
3     if (left >= right) {
4         printf("No\n");
5         return;
6     }
7     int sum = arr[left] + arr[right];
8     if (sum == x) {
9         printf("%d\n%d\n", arr[left], arr[right]);
10        return;
11    } else if (sum < x) {
12        findPairRecursive(arr, left + 1, right, x);
13    } else {
14        findPairRecursive(arr, left, right - 1, x);
15    }
16}
17
18 int main() {
19     int n = ..
```

```

17     int n, x;
18     scanf("%d", &n);
19
20     int arr[n];
21     for (int i = 0; i < n; i++) {
22         scanf("%d", &arr[i]);
23     }
24
25     scanf("%d", &x);
26
27     findPairRecursive(arr, 0, n - 1, x);
28
29     return 0;
30
31 }
32
33

```

	<b>Input</b>	<b>Expected</b>	<b>Got</b>	
✓	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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