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>

void findPair(int arr[], int left, int right, int x) {
    if (left >= right) {
        printf("No\n");
        return;
    }
    int sum = arr[left] + arr[right];
    if (sum == x) {
        printf("%d\n%d\n", arr[left], arr[right]);
        return;
    }
    else if (sum < x) {
        findPair(arr, left + 1, right, x);
    }
    else {
        findPair(arr, left, right - 1, x);
    }
}

int main() {
    int n, x;
    scanf("%d", &n);

    int arr[n];
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    scanf("%d", &x);
    findPair(arr, 0, n - 1, x);
    return 0;
}

```

	Input	Expected	Got	
✔	4 2 4 8 10 14	4 10	4 10	✔
✔	5 2 4 6 8 10 100	No	No	✔