





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, 12:16 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 12:16 PM
Time taken	22 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)

Question 1 | Correct Mark 1.00 out of 1.00 ♥ Flag question

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

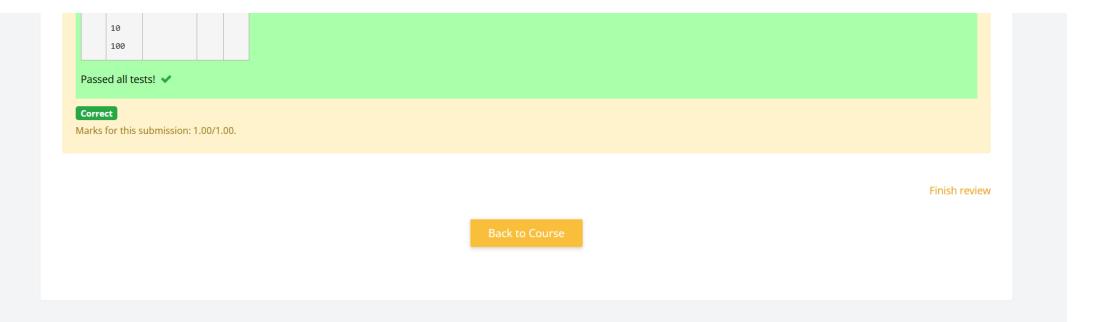
First Line Contains Integer – Element1

Second Line Contains Integer - Element 2 (Element 1 and Elements 2 together sums to value "x")

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
3 void findPair(int arr[], int low, int high, int x) {
      if (low >= high) {
           printf("No\n");
       int sum = arr[low] + arr[high];
       if (sum == x) {
         printf("%d\n%d\n", arr[low], arr[high]);
           return;
        } else if (sum < x) {</pre>
           findPair(arr, low + 1, high, x);
           findPair(arr, low, high - 1, x);
21 v int main() {
       scanf("%d", &n);
       int arr[n];
       for (int i = 0; i < n; i++) scanf("%d", &arr[i]);
       int x;
       scanf("%d", &x);
       findPair(arr, 0, n - 1, x);
34
```

		Input	Expected	Got	
	~	4	4	4	~
		2	10	10	
		8			
		10			
H		14			
	~		No	No	~
		2			
		6			
		8			



Data retention summary