

```
Status
Started
Sunday, 12 January 2025, 9:29 PM
Completed
Duration
14 mins 58 secs

Given an array of numbers, find the index of the smallest array element (the pivot), for which the sums of all elements to the left and to the right are equal. The array may not be reordered.

Example

arr=[1,2,3,4,6]

the sum of the first three elements, 1+2+3=6. The value of the last element is 6.

Using zero based indexing, arr[3]=4 is the pivot between the two subarrays.

The index of the pivot is 3.
```

```
int balancedSum(int arr_count, int* arr)
 9 •
    {
10
         int tot=0;
11
         for(int i=0; i<arr count;i++)</pre>
12
13
            tot+=arr[i];
14
        int l=0;
15
        for(int i=0; i<arr_count; i++)</pre>
16
17 🔻
            int r= tot-l - arr[i];
18
19
            if(l==r) return i;
20
            l+= arr[i];
21
22
        return 1;
23
    }
24
```

	Test	Expected	Got	
~	<pre>int arr[] = {1,2,3,3}; printf("%d", balancedSum(4, arr))</pre>	2	2	~

Passed all tests! ✓

Question **2**Correct

▼ Flag question

Calculate the sum of an array of integers.

Example

numbers = [3, 13, 4, 11, 9]

The sum is 3 + 13 + 4 + 11 + 9 = 40.

Function Description

Complete the function arraySum in the editor below.

arraySum has the following parameter(s):

int numbers[n]: an array of integers

Returns

int integer sum of the numbers array

		Test	Expected	Got	
•	~	<pre>int arr[] = {1,2,3,4,5}; printf("%d", arraySum(5, arr))</pre>	15	15	~

Passed all tests! <

Question **3**Correct

Flag question

```
#include <math.h>
 8
    int compare(const void *a , const void *b)
9
10
        return (*(int*)a - *(int*)b);
11
    int minDiff(int arr_count, int* arr)
12
13
14
        qsort(arr, arr_count, sizeof(int), compare);
15
        int totaldiff=0;
        for(int i =1; i<arr_count; i++)</pre>
16
17
18
             totaldiff += abs((arr[i]-arr[i-1]));
19
20
21
        return totaldiff;
22
23
```

	Test	Expected	Got	
~	<pre>int arr[] = {5, 1, 3, 7, 3}; printf("%d", minDiff(5, arr))</pre>	6	6	~