Status Finished

Started Monday, 13 January 2025, 2:25 PM

Completed Monday, 13 January 2025, 2:35 PM

Duration 10 mins 4 secs

Question 1 Correct ₹ Flag question

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.

Function Description

Complete the function balancedSum in the editor below.

balancedSum has the following parameter(s):

int arr[n]: an array of integers

```
* Complete the 'balancedSum' function below.
 2
 3
 4
     * The function is expected to return an INTEGER.
     * The function accepts INTEGER_ARRAY arr as parameter.
 5
 6
 7
 8 int balancedSum(int arr_count, int* arr)
9 - {
int l=0,r=0;
11 - for(int i=0;i<arr_count;i++){
r+=arr[i];
13 }
14 - for(int i=0;i<arr_count;i++)[
15 - if(1=-r-arr[i]){</pre>
16 return i;
17
    l:=arr[i];
r-=arr[i];
18
19
20 )
21 return 1;
22
23
```

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

Passed all tests! <

Question 2
Correct

Y 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

Constraints

 $1 \le n \le 10^4$

```
* Complete the 'arraySum' function below.
2
3
     \mbox{\scriptsize {\tt +}} The function is expected to return an INTEGER.
4
     * The function accepts INTEGER_ARRAY numbers as parameter.
6
7
8 int arraySum(int n, int *numbers)
9 . {
     int totalsum=0;
for(int i=0;i<n;i++){
   totalsum+=numbers[i];</pre>
10
11 .
12
13
14
            return totalsum;
15
    }
16
```

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

Passed all tests! <

Ouestion **3**Correct
P Flag question

Answer: (penalty regime: 0 %)

Reset answer

```
* Complete the 'minDiff' function below.
 2
 3
        * The function is expected to return an INTEGER.

* The function accepts INTEGER_ARRAY are as parameter.
 4
 5
 6
 7
      int minDiff(int n, int* arr)
 8
            int sum=0;
for(int i=0;i<n-1;i++){
    for(int j=0;j<n-i-1;j++){
        int flag=1;
        if(arr[j]>arr[j+1]){
            int temp=arr[j+1];
            arr[j+1]=arr[j];
 9 . {
10
11 .
12 .
13
14 .
15
                                  arr[j+1]=arr[j];
arr[j]=temp;
16
17
                           )
if(flag==0)
18
19
                           break;
20
21
22
              for(int i=0;i<n-1;i++){
    sum+=abs(arr[i]-arr[i+1]);</pre>
23 .
24
25
              return sum;
26
27
```

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