Question 1 incorrect \(\gamma\) Alag 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

Returns:

int: an integer representing the index of the pivot

Constraints

- 3 ≤ n ≤ 10⁵
- . 1 ≤ arr[i] ≤ 2 × 10⁴, where 0 ≤ i < n
- It is guaranteed that a solution always exists.

Returns:

int: an integer representing the index of the pivot

Constraints

- 3 ≤ n ≤ 10⁵
- . 1 ≤ arr[i] ≤ 2 × 10⁴, where 0 ≤ i < n
- It is guaranteed that a solution always exists.

Input Format for Custom Testing

Input from stdin will be processed as follows and passed to the function.

The first line contains an integer n, the size of the array arr.

Each of the next n lines contains an integer, arr[i], where $0 \le i < n$.

Sample Case 0

Sample Input 0

STDIN Function Parameters

4 → arr[] size n = 4

1 - arr = [1, 2, 3, 3]

2

3

```
Sample Output 0

Explanation 0

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

Using zero based indexing, arr[2]=3 is the pivot between the two subarrays.

The index of the pivot is 2.

Sample Case 1

Sample Input 1

STDIN Function Parameters

3  → arr[ size n = 3
1  → arr = [1, 2, 1]
2
1

Sample Output 1
```

```
Answer: (penalty regime: 0 %)
  Reset answer
             * Complete the 'balancedSum' function below.
           * The fun ction is expected to return an INTEGER.
* The function accepts INTE GER_ARRAY arr as parameter.
*/
    7 #include<stdio.h>
8 int balancedSum(int arr_count , int*arr )
9 {
   int totalSum=0,leftSum=0;
}
                 int totalSum=0,leftSum=0;
for(int i=0;i<arr_count;i++){
    totalSum+=*(arr+i);
    11 -
    12
    13
                 for(int i=0;i<arr_count;i++){
   totalSum=="(arr+i);
   if(leftSum==totalSum){
      return i;
   }
}</pre>
    14 -
    15
    16
    17
    18
                       leftSum+=*(arr+i);
    20
21
                  }
return -1;
    22 23
    24
```

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

Your code failed one or more hidden tests.

Your code must pass all tests to earn any marks. Try again.

Question 2 Correct

F 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

 $1 \le n \le 10^4$

 $1 \le numbers[i] \le 10^4$

Input Format for Custom Testing

Input from stdin will be processed as follows and passed to the function.

```
The first line contains an integer n, the size of the array numbers.
Each of the next n lines contains an integer numbers[i] where 0 \le i < n.
Sample Case 0
Sample Input 0
STDIN Function
-----
5 - numbers[] size n = 5
1 \rightarrow \text{numbers} = [1, 2, 3, 4, 5]
2
3
4
5
Sample Output 0
15
Explanation 0
1 + 2 + 3 + 4 + 5 = 15.
Sample Case 1
Sample Input 1
STDIN Function
```

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

Passed all tests! 🗸

Connect

T' Rag

Given an array of n integers, rearrange them so that the sum of the absolute differences of all adjacent elements is minimized. Then, compute the sum of those absolute universities example m=0 and m=1, 3,3,2,4, if the list is rearranged as arr'=[1,2,3,3,4], the absolute differences are [1-2]=1, [2-3]=1, [3-3]=0, [3-4]=1. The sum of those differences is 1+1+0+1=3. Function Description Complete the function minDiff in the editor below, minDiff has the following parameter, arr, an integer array Returns: int: the sum of the absolute differences of adjacent elements Constraints $2 \le n \le 105 \le arr[] \le 109$, where $0 \le i < n$ input Format For Custom Testing The first line of input contains an integer, n, the size of arr. Each of the following $n \le n \le n \le 100$. Sample Case $n \le n \le 100$. The first line of input contains an integer $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le n \le 100$. The first line of input for Custom Testing STDIN Function $n \le 100$. The first line of input for Custom Testing STDIN Function $n \le 100$. The first line of input for Custom Testing STDIN Function $n \le 100$. The first line of input for Custom Testing STDIN Function $n \le 100$. The first line of input for Custom Testing STDIN Function $n \le 100$ and $n \le 10$

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
* Complete the 'minDiff' function below
          * The function is expected to return an INTEGER.
* The function accepts INTEGER_ARRAY are as parameter.
         #includecstdlib.h>
         void bubbleSort(int arr_count,int* arr){
  for(int i=0;i:arr_count-1;i++){
    for(int j=0;j:arr_count-i-1;j++){
        if(arr[j]):arr[j+1]){
    }
}
11
                                     int temp:arr[]];
arr[]]=arr[]+1];
arr[]+1]=temp;
13
14
15
16
17
18
19
28
         int minDiff(int arr_count, int* arr)
21
22
                bubbleSort(arr_count,arr);
                int minsum=8;
for(int i=1;i<arr_count;i++){
    minsum=abs(arr[i]-arr[i-1]);
23
24
25
26
27
28
29
                return minsum;
```

```
* The function is expected to return an INTEGER.
* The function accepts INTEGER_ARRAY arr as parameter.
 5
 6 7
       #include<stdio.h>
       #include<stdlib.h>
      void bubbleSort(int arr_count,int* arr){
  for(int i=0;i.arr_count-1;i++){
    for(int j=0;j.arr_count-i-1;j++){
        if(arr[j]>arr[j+1]){
            int temp=arr[j];
        }
}
 9 .
10 .
11 .
12 .
13
                                   arr[j]=arr[j+1];
arr[j+1]=temp;
14
15
16
                           }
17
18
              }
20 int minDiff(int arr_count, int* arr)
21 - {
22
              bubbleSort(arr_count,arr);
              int minsum=0;
for(int i=1;i<arr_count;i++){
    minsum+=abs(arr[i]-arr[i-1]);
23
24 ·
25
26
27
              return minsum;
28
29 }
```

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

Passed all tests! 🗸

Finish review