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.

 $balanced Sum\ has\ the\ following\ parameter (s):$ 

int arr[n]: an array of integers

Returns

int: an integer representing the index of the pivot

## Constraints

- $\cdot$  3  $\leq$  n  $\leq$  10<sup>5</sup>
- 1  $\leq$  arr[i]  $\leq$  2  $\times$  10<sup>4</sup>, where 0  $\leq$  i < n
- It is guaranteed that a solution always exists.

## Answer: (penalty regime: 0 %)

```
Reset answer
         * Complete the 'balancedSum' function below.
        * The function is expected to return an INTEGER.
* The function accepts INTEGER_ARRAY arr as parameter.
  5
  6
        int balancedSum(int arr_count, int* arr)
  9
       int left=0,right=0;
for(int i=0;i<arr_count;i++){</pre>
 10
 11 -
            right+=arr[i];
 13 }
      for(int i=0;i<arr_count;i++){
    if(left==(right-arr[i])){
        return i;
 14
 15
 16
17
18
           left+=arr[i];
right-=arr[i];
  19
 20
21
        return 1;
  22
  23
```

```
Question 2
Correct
F Flag question
```

```
Calculate the sum of an array of integers.
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
int: integer sum of the numbers array
Constraints
1 ≤ n ≤ 10<sup>4</sup>
1 \le numbers[i] \le 10^4
```

## Answer: (penalty regime: 0 %)

```
Reset answer
```

```
* Complete the 'arraySum' function below.

* The function is expected to return an INTEGER.

* The function accepts INTEGER_ARRAY numbers as parameter.

*/
5
6
7
      int arraySum(int numbers_count, int *numbers)
9 + {
int sum=0;
for(int i=0;i<numbers_count;i++){
         sum+=numbers[i];
}
12
13
          return sum;
14
15
```

```
Expected Got
 int arr[] = {1,2,3,4,5};
printf("%d", arraySum(5, arr))
                                                          15
Passed all tests! 🗸
```

Question **3**Correct

Find Flag question

23

24 25 return sum;

```
Answer: (penalty regime: 0 %)
  Reset answer
          * Complete the 'minDiff' function below.
          * The function is expected to return an INTEGER.
          * The function accepts INTEGER_ARRAY arr as parameter.
         int minDiff(int arr_count, int* arr)
              for(int i=0;i<arr_count-1;i++){
  for(int j=0;j<arr_count-i-1;j++){</pre>
   10 ,
   11 ,
   12
                      if(arr[j]>arr[j+1]){
                          int temp=arr[j];
arr[j]=arr[j+1];
arr[j+1]=temp;
   13
   14
   15
   16
                  }
   17
   18
   19
              for(int i=0;i<arr_count-1;i++){
    sum+=abs(arr[i]-arr[i+1]);</pre>
   20
   21
   22
```

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