Question 1 Correct	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.
₹ Flag question	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 ≤ 10 ⁵ 1 ≤ arr[i] ≤ 2 × 10 ⁴ , 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, $arr[0]$, where $0 \le i < n$.
	Sample Case 0

```
Sample Case 0
Sample Input 0
STDIN Function Parameters
       ......
4 → arr[] size n = 4
    → arr = [1, 2, 3, 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
    → arr[] size n = 3
    → arr = [1, 2, 1]
Sample Output 1
```

Explanation 1

- The first and last elements are equal to 1.
- Using zero based indexing, arr[1]=2 is the pivot between the two subarrays.
- The index of the pivot is 1.

Answer: (penalty regime: 0 %)

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Reset answer
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```
* Complete the 'balancedSum' function below.
     * The function is expected to return an INTEGER.
     * The function accepts INTEGER_ARRAY arr as parameter.
    int balancedSum(int n, int* a)
 9 * {int 1=0,t=0;
10 + for(int i=0;i<n;i++){
11
        t+=a[i];
12
13
14
    for(int i=0;i<n;i++){
15
        t-=a[i];
16
        if(1==t)
17
        return i;
18
        1+=a[i];
19
20
    return 1;
21
22
```

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

Questian 2	Calculate the sum of an array of integers.
Correct F Flag question	
and the same of th	Example
	numbers = [3, 13, 4, 11, 9]
	The sum is 3 + 13 + 4 + 11 + 9 = 40.
	THE SUIT IS S T 15 T 4 T 11 T 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
	inchanocashi), an anay of meegers
	Returns
	int: integer sum of the numbers array
	Constraints
	$1 \le n \le 10^4$
	$1 \le \text{numbers}[i] \le 10^4$
	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

```
STDIN Function
      -----
5 → numbers[] size n = 5
1 → numbers = [1, 2, 3, 4, 5]
5
Sample Output 0
15
Explanation 0
1+2+3+4+5=15.
Sample Case 1
Sample Input 1
STDIN Function
2 → numbers[] size n = 2
12 → numbers = [12, 12]
12
Sample Output 1
24
Explanation 1
12 + 12 = 24.
```

Answer: (penalty regime: 0 %)

Answer: (penalty regime: 0 %)

for(int i=0;i<n;i++){

s+=a[i];

}return s;

Reset answer

12

14

15 16

```
1 * /*
2 * Complete the 'arraySum' function below.
3 *
4 * The function is expected to return an INTEGER.
5 * The function accepts INTEGER_ARRAY numbers as parameter.
7 */
8 int arraySum(int n, int *a)
9 {
1 int s=0;
```

Passed all tests! 🗸

Question 3 Correct

F Flag question

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 differences. Example n = 5 arr = [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 $2 \le n \le 105$ $0 \le arr[i] \le 109$, 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 $n \ge n$ lines contains an integer that describes $n \ge n$ arr[$n \ge n$] (where $n \ge n$ arr $n \ge n$] is zero $n \ge n$. Sample Case 0 Sample Input For Custom Testing STDIN Function $n \ge n$ arr $n \ge n$ arr n

Answer: (penalty regime: 0 %)

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Reset answer
```

```
1 + /*
      * Complete the 'minDiff' function below.
      * The function is expected to return an INTEGER.
      * The function accepts INTEGER_ARRAY arr as parameter.
  8 | int minDiff(int n, int* a)
 9 + 1
10 int s=0;
11 + for(int i=1;i<n;i++){
        for(int j=0;j<n;j++){
13 .
            if(a[i]<a[j]){
14
                int temp=a[i];
15
                a[i]=a[j];
16
                a[j]=temp;
17
18
19
    for(int i=0;i<n-1;i++){
21
        s+=abs(a[i]-a[i+1]);
22
23
      return s;
24
25
```

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

Passed all tests! <