Question 1 Correct P 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.
t ring 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

```
* Complete the 'balancedSum' function below.
2
3
    * The function is expected to return an INTEGER.
4
    * The function accepts INTEGER ARRAY arr as parameter.
5
    #/
6
7
    int balancedSum(int arr_count, int* arr)
8
9 + {
   int 1=0,r=0;
10
11 - for(int i=0;i<arr count;i++){
    r+=arr[i];
12
13
14 - for(int i=0;i<arr_count;i++){
15 - if(l=-r-arr[i]){
    return i;
16
17
    1+=arr[i];
18
    r-=arr[i];
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	Calculate the sum of an array of integers.
₹ Flag question	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.
     * The function is expected to return an INTEGER.
     * The function accepts INTEGER_ARRAY numbers as parameter.
    int arraySum(int n, int *numbers)
 9
        int totalsum=0;
10
11 +
      for(int i=0;i<n;i++){
          totalsum+=numbers[i];
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!

```
Question 3
                     Given an array of n integers, rearrange them so that the sum of the absolute differences of all adjacent elements is minimized. Then, compute
Correct
                     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
F. Flag question
                     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 ≤ n ≤105 0 ≤ arr[i] ≤ 109, where 0 ≤ 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 lines contains an integer that describes arr[i] (where 0 \le i < n). Sample Case 0 Sample Input
                     For Custom Testing STDIN Function ---- 5 → arr[] size n = 5 5 → arr[] = [5, 1, 3, 7, 3] 1 3 7 3 Sample Output 6 Explanation n = 5 arr =
                     [5, 1, 3, 7, 3] If arr is rearranged as arr' = [1, 3, 3, 5, 7], the differences are minimized. The final answer is |1 - 3| + |3 - 3| + |3 - 5| + |5 - 7| = 6.
                     Sample Case 1 Sample Input For Custom Testing STDIN Function ---- 2 → arr[] size n = 2 3 → arr[] = [3, 2] 2 Sample Output 1
                     Explanation n = 2 arr = [3, 2] There is no need to rearrange because there are only two elements. The final answer is |3 - 2| = 1.
                     Answer: (penalty regime: 0 %)
```

Reset answer

```
* Complete the 'minDiff' function below.
 2
 3
     * The function is expected to return an INTEGER.
 4
     * The function accepts INTEGER ARRAY arr as parameter.
     */
 6
 7
    int minDiff(int n, int* arr)
9 . (
        int sum 0;
10
        for(int i=0;i<n-1;i++){
11 .
            for(int j=0;j<n-i-1;j++){
12 +
                int flag=1;
13
                if(arr[j]>arr[j+1])(
14 -
                    int temp=arr[j+1];
15
                    arr[j+1]-arr[j];
16
                    arr[j]=temp;
17
18
                if(flag==0)
19
                break;
20
21
22
        for(int i=0;i<n-1;i++){
23 -
            sum+=abs(arr[i]-arr[i+1]);
24
25
26
        return sum;
27
28
```

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