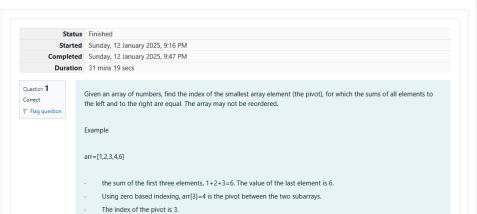
## GE23131-Programming Using C-2024

Function Description

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





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  $3 \le n \le 10^5$   $1 \le arr[i] \le 2 \times 10^4$ , where  $0 \le i < n$ 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.

```
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
1
Explanation 1
The first and last elements are equal to 1.
```

```
int rightsum = totalsum - leftsum - arr[i];
if(leftsum==rightsum)
{
    return i;
}
leftsum+=arr[i];
}
return 1;
}
return 1;
}
```

```
Test Expected Got

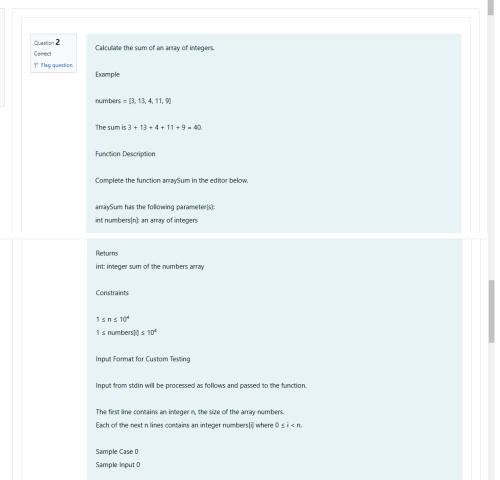
vint arr[] = {1,2,3,3};
printf("%d", balancedSum(4, arr))

Passed all tests! v
```

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## GE23131-Programming Using C-2024





STDIN Function

```
12 → numbers = [12, 12]
12
Sample Output 1
24
Explanation 1
12 + 12 = 24.
Answer: (penalty regime: 0 %)
Reset answer
Test
                 Expected Got
 Passed all tests! 🗸
                                               Next page ►
```

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## GE23131-Programming Using C-2024





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, 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 lines contains an integer that describes arr[i] (where  $0 \le i < n$ ). Sample Case  $0 \le n$  Sample Input For Custom Testing STDIN Function  $n \ge n$  arr  $n \ge n$  arr n

Answer: (penalty regime: 0 %)

Reset answer

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