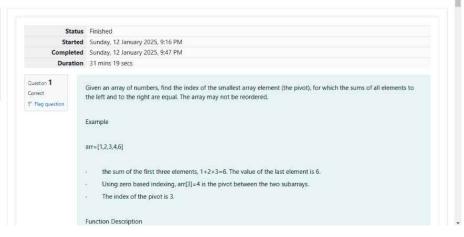
GE23131-Programming Using C-2024





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[n] ≤ 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.

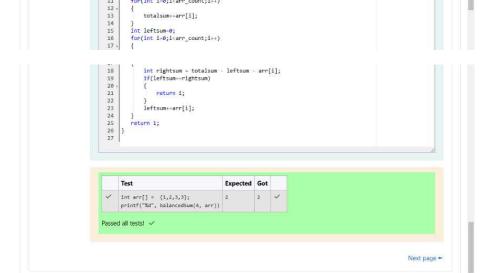
The first line contains an integer n, the size of the array arr.

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

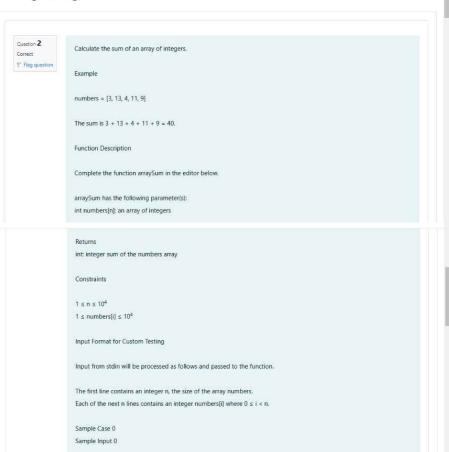
    Using zero based indexing, arr[1]=2 is the pivot between the two subarrays.

The index of the pivot is 1.
 Answer: (penalty regime: 0 %)
  Reset answer
```



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STDIN Function

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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 $2 \le n \le 105 = 3$ arri[3 ≤ 109 , where $0 \le i < n \le 1050 = 3$ arri[3 ≤ 109 , where $0 \le i < n \le 10$ in Input Format For Custom Testing The first line of input contains an integer, $n \le 100 = 10$

Answer: (penalty regime: 0 %)

Reset answer



```
Test Expected Got

vint arr[] = (5, 1, 3, 7, 3); 6 6 6 v

printf("%d", minDiff(5, arr))
```