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AIDS-A

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GE23131-Programming Using C-2024



- 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]
```

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 %)

```
Complete the 'balancedSum' function below.
The function is expected to return an INTEGER.
The function accepts INTEGER ARRAY arr as parameter.
3
4
5
6
7
8
9
10
11
12 *
13
14
15
16
         nt balancedSum(int arr_count, int* arr)
           int totalsum=e;
for(int i=0;i<arr_count;i++)
{</pre>
                totalsum+=arr[i];
           int leftsum=e; for(int
           i=0;i<arr_count;i++)
                 int rightsum = totalsum leftsum arr[i];
18
19
20 +
21
22
23
24
25
26
27
                 if(leftsum==rightsum)
                      return i;
                }
leftsum+=arr[i];
          return 1;
```

Test	Expected	Got	
int arr[] balancedSum(4,		2	
arr))			

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Next page -

Calculate the sum of an Question 2 Correct Show all questions on one pageExample

Flag question

array of integers.

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2 → numbers size n = 2

Quiz navigation

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 \, s \, n \, s \, 10^4
     1 numbers[i] s 10<sup>4</sup>
     Input Format for Custom Testing
    Input from stdin will be processed as follows and passed to the function. \label{eq:final_policy}
    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 i < n.
   Sample Case 0
   Sample Input 0
    STDIN Function
   5 numbers0 size n = 5
   1 → numbers = [1, 2, 3, 4, 5]
  Sample Output 0
   15
    Explanation 0
1+2+3+4+5=15.
   Sample Case 1
  Sample Input 1
   STDIN Function
```

```
12 numbers - - [12, 121
Sample Output 1
24
Explanation 1
12+ 12=24.
Answer: (penalty regime: 0
%)
 Resetanswer
11
  12 •
13
         for(int
                         sum
         sum+numbers[il; return
  14
         sum;
  1;
  16
17
    Test
                            Expected Got

v int arr[] = {1,2,3,4,5};
printf("%d", arraySum(5, arr))

15

15

V

 Passed all tests! ✓
                                                                              Next page -
Passed all tests! v'
```

Question 3 Correct Flag question AMBRISH KUMAR A

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Show all questions on one page

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 |1-21=1,12-31=1,13-31=0,13-41=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 s n s105 0 arr[i] 109, where 0 s 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 s i < n). Sample Case 0 Sample Input For Custom Testing The Tour For Custom Testing STDIN Function

- 5 arro size n = 5 5 = [5, 1, 3, 7, 3] 1 3 7 3 Sample Output 6

Explanati on n = 5 arr = [5, 1, 3, 7, 3] If arr is rearrange

3, 7, 3] If arr is rearrange d as arr' -[1, 3, 3, 5, 7], the difference

s are minimize d. The final

answer is II - 31 + 13 - 31 + 13 -51 + 15 -71 = 6.

71 = 6. Sample Case 1 Sample Input For

Custom Testing STDIN Function

arro sizen
= 2 3 arro
[3, 2] 2
Sample
Output 1
Explanati
on n = 2
arr = [3, 2]
There is
no need to
rearrange

only two

Answer: (penalty regime: 0 %)
Reset answer

```
/* Complete the 'minDiff' function below.

* The function is expected to Feturn an INTEGER.

* The function accepts INTEGER_ARRAY arr as parameter.

* The function accepts INTEGER_ARRAY arr as parameter.

* Introcompare(const void *a,const void * (compare(const void *a,const void * (compare(const void *a,const void * (compare(const void * (compare(const void * (compare(const void * (const vo
```

Test	Expected	Got	
int arr[] mi nDiff(5, arr))			