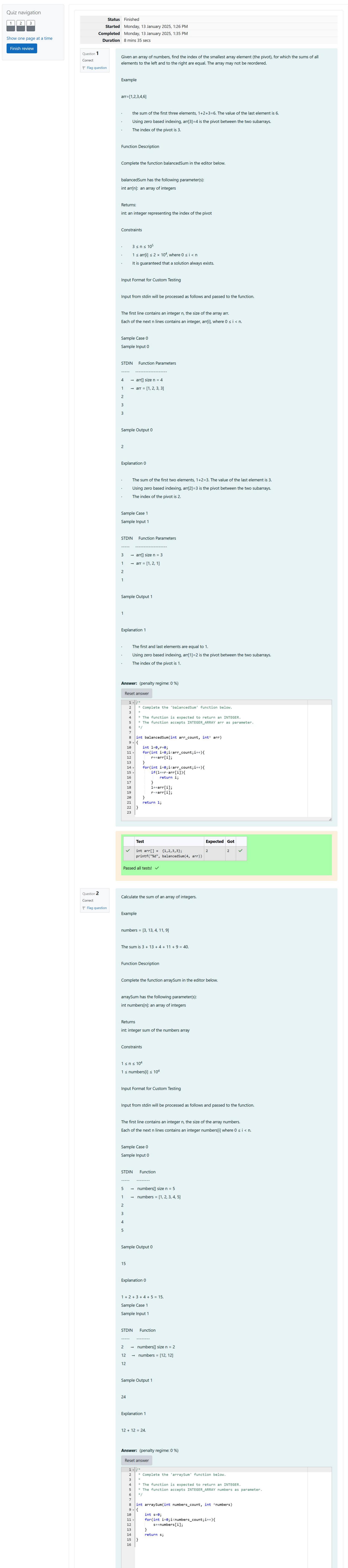
REC-CIS

## GE23131-Programming Using C-2024



```
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 Sample Input For Custom Testing STDIN Function ----- 5
\rightarrow arr[] size n = 5 5 \rightarrow 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
   1 | /*
         * Complete the 'minDiff' function below.
    2
    3
         ^{st} The function is expected to return an INTEGER.
         * The function accepts INTEGER_ARRAY arr as parameter.
    6
    7
       int minDiff(int arr_count, int* arr)
    9
            for(int i=0;i<arr_count;i++){</pre>
   10
                 for(int j=i;j<arr_count;j++){</pre>
   11 *
   12 *
                      if(i!=j){
                          if(arr[i]>arr[j]){
   13
                               int temp=arr[j];
   14
                               arr[j]=arr[i];
   15
                               arr[i]=temp;
   16
   17
   18
   19
   20
             int m=0;
   21
            for(int i=0;i<arr_count-1;i++){</pre>
   22 1
                 m+=arr[i+1]-arr[i];
   23
   24
   25
             return m;
   26
   27
   28
   29
   30
   31
   32
   33
   34
   35
   36
   37
                                         Expected Got
        Test
```

**Expected Got** 

15

Given an array of n integers, rearrange them so that the sum of the absolute differences of all adjacent elements 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

minimized. Then, compute the sum of those absolute differences. Example n = 5 arr = [1, 3, 3, 2, 4] If the list is

Test

Passed all tests! <

Question 3

Flag question

Correct

int arr[] = {1,2,3,4,5};

int arr[] = {5, 1, 3, 7, 3};

Passed all tests! <

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

printf("%d", arraySum(5, arr))