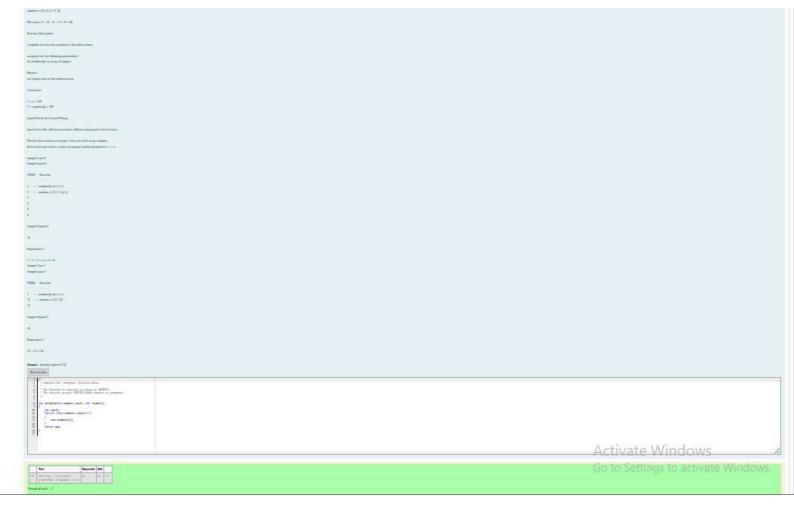
## **Programming Using C**

week 13 practice session coding

Name:K.Kamaleshwaran Department:AIML-'B' Roll No.:242501079

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Question 3
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question

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  $2 \le n \le 105$   $0 \le arr[i] \le 109$ , 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 = 10 integer that describes n = 10 in the parameter n = 10 in

Answer: (penalty regime: 0 %)

## Reset answer

```
1 * /* 2 * Complete the 'minD1ff' function below.
      * The function is expected to return an INTEGER.
* The function accepts INTEGER_ARRAY arr as parameter.
     int compare(const void* a,const void* b)
          return (*(int*)a-*(int*)b);
10
     int minDiff(int arr_count, int* arr)
11
12
13
          qsort(arr,arr_count,sizeof(int),compare);
          int sum=0;
for(int i=1;i<arr_count;++i)</pre>
14
15
16
17
             sum+=abs(arr[i]-arr[i-1]);
18
19
          return sum;
20
21
```

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

Passed all tests! 🗸

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