Name - Yash Lakhtariya Enrollment number - 21162101012 Branch - CBA Batch - 51 AAD Practical 1

Institute of Computer Technology B. Tech Computer Science and Engineering

Sub: Algorithm Analysis and Design

Practical 1

There are 2 chefs, namely chef 1 and chef 2 in the MasterChef competition. The judge is going to judge on the basis of 3 categories: presentation, taste and hygiene to prepare the dishes. The marking is scaling from 1 to 100. The rating for chef 1 challenge is the triplet a = (a[0], a[1], a[2]), and the rating for Chef 2 challenge is the triplet b = (b[0], b[1], b[2]), where 0 index is presentation, 1 index is taste and 2 index is hygiene. The task is to find their comparison points by comparing a[0] with b[0], a[1] with a[2] with a[2] with a[3] and a[3] with a[3] with a[3] and a[3] with a[3] with a[3] with a[3] with a[3] and a[3] with a[3] with a[3] and a[3] with a[3] with a[3] and a[3] with a[

Sample Input 1 27 48 70 89 26 7

Sample Output 1 2 1

Explanation 1

Comparing the 0th elements, 27<89 so Chef 2 receives a point. Comparing the 1st and 2nd elements, 48>26 and 70>7 so Chef 1 receives two points. The return array is [2,1].

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Code:

```
from YSL_io import *
from array import *
def compare(a, b):
p1 = 0
p2 = 0
for one in range(len(a)):
for two in range(len(b)):
if one = two:
if a[one] > b[two]:
p1 = p1 + 1
elif a[one] < b[two]:
p2 = p2 + 1
else:
pass
return p1, p2
# a1 = int(inputGRN('\nEnter presentation score of Chef-1 : '))
# a2 = int(inputGRN('Enter taste score of Chef-1 : '))
# a3 = int(inputGRN('Enter hygiene score of Chef-1 : '))
```

```
# b2 = int(inputMGNTA('Enter taste score of Chef-2 : '))
# b3 = int(inputMGNTA('Enter hygiene score of Chef-2 : '))
# a = array('I', [a1, a2, a3])
# b = array('I', [b1, b2, b3])
n = int(inputORNG('\nEnter number of categories to compare : '))
a = array('I', range(n))
b = array('I', range(n))
print()
for i in range(n):
a[i] = int(inputGRN(f'Enter category-{i + 1} score of Chef-1 : '))
print()
for i in range(n):
b[i] = int(inputMGNTA(f'Enter category-{i + 1} score of Chef-2 : '))
p1, p2 = compare(a, b)
print('\nTotal score of Chef-1 : ', end='')
printORNG(p1)
print('Total score of Chef-2 : ', end='')
printORNG(p2)
```

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Output:

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