GTU Department of Computer Engineering
CSE 321 - Fall 2020
Final Exam Test Results

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Next, you will see python code test results for each question.

Q1)

```
--------------------------------------------------------
Test Array:   noon
Length of SubArray: :   4
Subarray with maximum length having the property: noon
--------------------------------------------------------

Test Array:   racecaris
Length of SubArray: :   7
Subarray with maximum length having the property: racecar
--------------------------------------------------------

Test Array:   abbdcacb
Length of SubArray: :   5
Subarray with maximum length having the property: bcacb
--------------------------------------------------------

Test Array:   repapwhat
Length of SubArray: :   3
Subarray with maximum length having the property: aha
--------------------------------------------------------
```

Q2)

```
--------------------------------------------------------
Test List: [-1, 6, 4, 2, 3, -7, -5]
-------------- 1 ----------------
Interval : [1 , 4]
Minimum in this interval: -1
-------------- 2 ----------------
Interval : [4 , 5]
Minimum in this interval: 2
-------------- 3 ----------------
Interval : [2 , 5]
Minimum in this interval: 2
-------------- 4 ----------------
Interval : [7 , 7]
Minimum in this interval: -5
-------------- 5 ----------------
Interval : [5 , 7]
Minimum in this interval: -7
-------------- 6 ----------------
Interval : [5 , 7]
Minimum in this interval: -7
-------------- 7 ----------------
Interval : [6 , 6]
Minimum in this interval: -7
--------------------------------------------------------
```

*here array size is 7 thus, we have 7 interval.

Q3)

```
--------------------------------------------------------
Total Distance: 35
List of ads Locations: [3, 8, 10, 12, 15]
List of money from ads: [15, 10, 12, 6, 23]
number of ads location: 5
Your maximized total earned money: 50
--------------------------------------------------------
Total Distance: 15
List of ads Locations: [6, 8, 12, 14, 15]
List of money from ads: [3, 6, 5, 3, 5]
number of ads location: 5
Your maximized total earned money: 11
--------------------------------------------------------
```

Q4)

```
-------Cost Matrix------------
[50, 13, 42, 80]
[7, 3, 3, 17]
[22, 72, 2, 1]
[6, 66, 666, 27]
------------------------------
Person job Assignment
Person 0 has job 3
Person 1 has job 0
Person 2 has job 1
Person 3 has job 2
------------------------------
job Person Assignment
job 0 has Person 1
job 1 has Person 2
job 2 has Person 3
job 3 has Person 0
------------------------------
```

Q5)

```
--------------------------------------------------------
Test List: [92, 82, 21, 16, 18, 95, 26, 47]
Total number of inversions: 10
--------------------------------------------------------
Test List: [3, 11, 22, 33, 73, 64, 41, 11]
Total number of inversions: 4
--------------------------------------------------------
Test List: [41, 5, 15, 2, 7]
Total number of inversions: 7
--------------------------------------------------------
```