BRAC University (Department of Computer Science and Engineering)

CSE 220 (Data Structure) for Summer 2023 Semester

Quiz 1
Set A

Student ID:
Section: **Full Marks: 20**
Name: **Duration: 25 minutes**

[CO3] 1. (a) Imagine you have a 3D array with dimensions 4x4x8. What are the multidimensional indexes of the element stored at location 96? **(5 + 2)**

(b) Imagine you have a 4D array with dimensions 4x3x5x6. What is the linear Index of Index [2][2][4][5]?

Ans:

[CO1] 2. Construct a method/function which takes a linear array and size as input and removes the odd elements of that array. **6**

Ans:
```
def removeOdd(LinArr,size):
    #write code
```

[CO5] 3. Take a 2D matrix A of size N X M as an input and print M integers denoting the column-wise sum of each of the M columns. **7**

Ans:

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CSE 220 (Data Structure) for Summer 2023 Semester

Quiz 1
Set B

Student ID:
Section: **Full Marks: 20**
Name: **Duration: 25 minutes**

[CO3] 1. (a) Imagine you have a 3D array with dimensions 4x4x8. What are the multidimensional indexes of the element stored at location 107? **(5 + 2)**

(b) Imagine you have a 4D array with dimensions 4x3x5x6. What is the linear Index of Index [3][1][2][4]?

Ans:

[CO1] 2. Construct a method/function which takes a linear array and size as input and removes the even elements of that array. **6**

Ans:
```
def removeEven(LinArr,size):
    #write code
```

[CO5] 3. Take a 2D matrix A of size N X M as an input and print N integers denoting the row-wise sum of each of the N rows. **7**

Ans: