Question Set 1

       Candidate Name: - _____

       Mobile: - _____

       Test Date: -_____

       Start Time: - _____   End Time: - _____

General (language independent)

Q1: There is an array of non-negative integers. A second array is formed by shuffling the elements of the first array and deleting a random element. Given these two arrays, find which element is missing in the second array. Here is an example input, the first array is shuffled and the number 5 is removed to construct the second array

First Array = [4,1,0,2,9,6,8,7,5,3]

Second array = [6,4,7,2,1,0,8,3,9]

Q2. Write a program which will find all occurrences of the pattern of length 'n' within a string of length 'l'

Example:

Pattern: adfgmnst

String: asnmnshtadfgmnstksjdkjhasdjkaasdsadgadfgmnstsdjadaklsjdlka

Java specific:

Q3. Modify this class' definition (by adding or changing code) to make it behave as a Singleton:

public class Counter {

private int num;

public Counter() {

}

}

this.num = 0;

Are there any issues while multi-threading? How would you solve it?