CSE 220 Spring 2014, Sec 3 ID : _____

Quiz 1, Feb 16, 2014 Name : _____

Marks: ____ out of 10

1. Suppose you have two Linear Arrays: A of sizeA elements and B of sizeB elements. Note that sizeA and sizeB are the number of elements in array A and B respectively (which may be less than the capacity). Write down the concatArrays() method which concatenates array A and B in a newly allocated one [5 marks]

```
/**
* Concatenates two different linear arrays of Objects
* @param A the first linear array.
* @param B the second linear array.
* @param sizeA the number of elements in array A (sizeA <= A.length)
* @param sizeB the number of elements in array B (sizeB <= B.length
* @returns the reference of the newly created concatenated array
*/
public static Object[] concatArrays(Object[] A, Object[] B, int sizeA, int sizeB){
        // TO DO
}
```

2. Suppose you have a Circular Array of n elements which starts at index start. Write the method removeLast() which removes the **last occurrence** of the given element from the **circular array**. Again, note that "n" is the number of elements in the array, which may be less than the capacity. [5 Marks]

```
/**
* Removes the last occurrence of the given element from the Array
* @param c the circular array.
* @param n the number of elements in the array (n <= c.length).
* @param elem the element that is to be removed
* @return true if it was successfully removed, or false
* otherwise
*/
  public boolean removeLast(Object[] c, int n, Object elem) {
      // TO DO
  }
```