CSE 220 Spring 2014, Sec 1	ID :
Quiz 1, Feb 16, 2014	Name :
Marks: out of 10	

1. Suppose you have a Linear Array of size elements. Write down the shiftLeft() method which shifts all the elements of the array to left by k positions. Again, note that "size" is the number of elements in the array, which may be less than the capacity. [5 marks]

```
/**
 * Shifts all the elements of the array left by k positions.
 * @param a the linear array.
 * @param size the number of elements in the array (size <= a.length)
 * @param k the number of positions to shift left by
 * @throws IllegalShiftException if k < 0 or k > size
 */
public static void shiftLeft(Object[] a, int size, int k) {
      // TO DO
}
```

2. Suppose you have a Circular Array of size elements which starts at index start. Write the search() method which returns the <u>offset of given element relative to start</u> if it exists in the array. Return -1 otherwise. Again, note that "size" is the number of elements in the array, which may be less than the capacity. [5 marks]