In-Class Activity #5

Name #1: _____   Section Leader: _____

Name #2: _____   Section Leader: _____

Name #3: _____   Section Leader: _____

Directions: In groups of 2 or 3, <u>without using electronics</u>, answer the following questions to the best of your combined abilities. When appropriate, show your work, to help us understand your thought process. ICAs (In-Class Activities) count toward your grade; please take them seriously.   Week 8 (2015/10/14)

1. `ArrayList` has a method `indexOf(Object)` that returns the index of the first occurrence of the given Object's content. What is an error situation that the programmer who wrote `indexOf(Object)` should have thought about before s/he wrote this method?

2. In section this week you wrote code for some sequence classes. Write an additional public instance method for the `ArithmeticSequence` class named `reverse()` that reverses the sequence and changes the common difference to match. For example, if the current object is holding the sequence $[1, 3, 5, 7, 9]$ with a common difference of 2, `reverse()` will change the sequence to $[9, 7, 5, 3, 1]$ with a common difference of -2. Remember that the array is named `sequence`, `numTerms` holds the number of terms in the sequence, and `capacity` is `sequence`'s size.

When your group is satisfied with your answers, or time is up, hand this to one of the class staff. We'll review the correct answers after time is up.