# CSE 219 - Fall 2017 Computer Science III

#### **Recitation 8 - Java Object Model**

Notify your Recitation TA once you have completed this recitation so that they may verify your work.

**Recitation Goal:** in this recitation you will implement appropriate **hashCode** and **equals** methods to make a simple board game application function correctly.

### **Recitation Setup**

To start, download the **Recitation8.zip** ZIP file. Open NetBeans and using **File>Import Project>From ZIP**, import the project contained in the ZIP file. You should end up with a **Recitation8** project, containing a package **boardgame**, which is a framework for implementing simple board games, a package **tictactoe**, which is an implementation of the game of Tic-Tac-Toe using the framework, and a package **tictactoe.textui** which is a textual user interface for the Tic-Tac-Toe game.

#### Introduction

- Look over the classes in the **boardgame** framework, to get an idea of what is provided there.
- Look over the classes in the tictactoe package, including the tictactoe.textui package, to get an idea of how they relate to the classes in the boardgame framework.
- Launch the TicTacToe game by running the
  TextualTicTacToeGame class. Enter "X" or "O" in response to the
  initial prompt. When prompted for a move, the game is expecting
  you to enter a move in the form "(r,c)" (no spaces), where r is the
  row number and c is the column number, starting from 0. You will
  notice that the game does not work: moves that you type are
  never accepted as legal.

## **Recitation Requirements**

 The reason the TicTacToe game fails to function properly is because there are some classes that have neglected to properly override equals and hashCode. Identify these classes and provide proper implementations of these methods. A good place to start is to use the debugger to step through the chooseMove method in the InteractiveMover class.

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When you are done demonstrate your working game to one of the TAs