Homework 02

1 General Instructions

Homework should be submitted to Desire2Learn, as either a plain-text file or a PDF file. For parts of homework that are writing code you may wish to type your answers into an Eclipse projects so that you can test them, then copy and paste them into the document you are submitting.

Homework will be graded for completion – whether or not it looks like you have tried to answer all of the questions to the best of your ability – rather than correctness. In fact, you won't get much feedback about your homework submissions at all. Instead, I will be posting a solution after the due date. You are strongly encouraged to compare that solution to your own work, and ask questions on Piazza or in person if you do not understand any parts of the solution.

The purpose of homework is to help you figure out how well you understand the concepts that you can expect to see on the exams.

2 Assignment

1. Explain the purpose and structure of accessor methods, as well as the purpose and structure of modifier (also known as mutator) methods.

2. What is information hiding? Why is it useful?

3. Assume that there is a class named `Student` with two fields: a `String` called `name` and an `int` named `idNumber`. Write an `equals` method that could go in this class. Use the `Location` class's `equals` method as a guide.

4. Explain why, and when, you would prefer to use an `ArrayList` to store data rather than an array. Are there any situations in which you would prefer the array?

3 Submitting Your Work

If your document is not already plain-text or PDF, convert it to one of those formats. Then upload it to D2L under this assignment.