

## Homework 05

### 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 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. Suppose that the only thing you knew about the `Mystery<Integer>` class was that it implements the `Iterable<Integer>` interface. Fill in the body of this method to print each element of `collection`.

```
1 public static void printAllElements(Mystery<Integer> collection) {
```

2. If you wanted to store a large list of sequenced objects (order matters) and you frequently need to add elements to the beginning of the sequence, would you choose a linked list implementation or an array implementation? Why? (5)

3. Consider the following code:

```
1 int x = 3;  
2 float f = x;
```

Is the assignment of the value of `x` to `f` a narrowing conversion or a widening one? Is this an example of coercion?

### 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.