

CS 4501/6501: Assignment 3

Due 19-Sep-2017

Purpose: Practicing the process of TDD: Test, Code, Refactor

Towards this end, (re)build a small chunk of Java functionality with TDD. You can use code of your own, or you can pull down code from the textbook. Or you can use code from another source, as long as you properly document/cite that source. You are not restricted to the API of the code you choose. In fact, it is highly likely that the API developed through TDD will be different (and better). I'm more interested in where the tests lead you than I am in the specific product.

The deliverable for this assignment is a *story*, with tests and snippets of code as illustrations. Each snippet of code should do **only** as much as is needed by the tests considered so far. Your story should start with a single "*happy path*" test case, and should take you through a sequence of further test cases.

Turn in a brief write-up of your story (**no handwriting**) along with all your .java files (your code and JUnit tests).

Grading is all about following TDD and documenting the process. Write each test, build **only** the code that passes the test, and document the progress (e.g., with screen shots). Refactor as necessary, and document them. Compelling stories will receive full credit.

This assignment works *far* better as a collaborative exercise than as a solo exercise. That is, collaborative stories are more likely to be compelling.

Grading Rubric

[Total: 20 points]

Submit a **brief** report in two parts:

- (18 points) — Write-up
 - (16 points) Following TDD and documenting the process
 - Adequate documentation of the process and the progress
 - (2 points) Evidence that your JUnit runs
- (2 points) — Your code and JUnit tests

Submission

Zip all of your files into a single .zip file. Your file should have the name *yourfirstname-initial* followed by *yourlastname-hw3* (for instance, *UPraphamontripong-hw3*). Submit your .zip file to **Collab**. If you work in group, be sure to include all names in the report. Each team submits only **one** copy.

Making your report available to me and the TAs is **your** responsibility; if we cannot access your file then you will not get credit. Be sure to test access to your file before the due date.
