Lab 05: Bookshelf and JUnit

Instructions: In this assignment we will finish up our discussion on composing classed and begin work with JUnit–a very important tool for testing. For this assignment, first design/implement a class called Book. The book class shall contain:

1) data for the title, author, publisher, and copyright date

2) a constructor that takes title, author, publisher, and copyright date and sets the respective internals

3) getters and setters for title, author, publisher, and copyright

4) write a JUnit test for the Book object

Then create another object, bookshelf, that contains 5 books. The object shall have

1) internal data for 5 books

2) a empty constructor that leave the 5 book slots empty (null)

3) getters and setters for the 5 books

4) a numBooks() function that returns the number of books in the shelf

Finally write a JUnit tester called BookShelfTester that tests your BookShelf object. Make sure it tests:

1) an empty BookShelf

2) a full BookShelf

3) the getters and setters of BookShelf and Book

4) the numBooks() function

Write some test cases:

Create some test cases that you believe would cover all aspects of your code.

How to turn in:

Turn in via GitHub. Ensure the file(s) are in your lab05 directory and push via IntelliJ (VCS ↑) OR use the command line:

- $ git add <files>

- $ git commit

- $ git push

Due Date: September 22, 2015 2359

Teamwork: No teamwork, your work must be your own.