Final Exam – A Shelf and Books

DUE: December 10 by 11:59:59 PM   **Assigned**: December 2

Background
You will write two classes, one to represent a book, and another to represent a shelf that will hold books.

Assignment Requirements
- Download all the source files and the file booklist.txt
- You will only submit `Shelf.hpp` (Fill out the comment block)
- The program takes no input
- Class definitions are provided, you must implement the class functions
  - An enumeration and a couple functions (already implemented) are also provided
- You may declare any extra class member data or functions that you want/need
- REMINDER: Discussion of the problem is always acceptable; sharing code is considered academic dishonesty

Sample Run
```
❯ ./a.out -nc
[doctest] doctest version is "2.4.1"
[doctest] run with "--help" for options
===============================================================================
=========
[doctest] test cases:  4 |  4 passed | 0 failed | 0 skipped
[doctest] assertions: 36 | 36 passed | 0 failed |
[doctest] Status: SUCCESS!
```

Hints
- There's nothing new in this exam
- You may be able to repurpose some code you've previously written

Reminders
- Be sure to include a comment block at the top of every file with the required information
  - Refer to the General Homework Requirements handout on Blackboard
- Provide meaningful comments
  - If you think a comment is redundant, it probably is
  - If you think a comment is helpful, it probably is
  - Remember that you are writing comments for other programmers, not people who know nothing (obligatory Jon Snow) about coding
  - Comments are more helpful when they explain why, not what or how

- There will be no extensions

Preparing and Submitting

- Your code must be able to compile and run on the EECS lab machines
  - You are responsible for testing your code
  - "But it runs fine on my machine!" will **not** earn you any points
- Submit **ONLY** your source code file
- Homework submission will be handled exclusively through Blackboard