CS231 Data Structures

Homework 07 Generic Template Stack

C++ Plus Data Structures 6/e

[Homework Section on Moodle](#)

> ## Homework 07 - Stack Template Class
>
> - Download, read, and **carefully** follow the instructions attached to this assignment.
> - The test driver and some other scaffolding are provided in the attached .zip file.
>
> Submit your program as a single .py file named:
>
> **CS231-HW07-StackTemplate-Yourlastname.zip**

Assignment

Deliver a working Template Class for the Stack Data Structure.

You must give proper acknowledgement of your sources and demonstrate an understanding of any code that you reuse by adding appropriate comments.

Requirements

Your implementation must successfully pass all the automated tests in the test-main.cpp file provided as part of the scaffolding. You may not change any of the test cases themselves.

You may temporarily comment out, or #if #endif out, some automated tests as you begin your implementation. Then put the tests back in as you build out your solution to be more and more complete.

Your implementation must compile, run, and pass all the automated regression tests, and terminate normally.

Grading Rubric

Grade	Criteria
Zero	no work submitted
D-	work does not demonstrate sufficient effort
B	Test program compiles, runs, passes most of the test cases, and terminates normally.
A	Code is well commented and demonstrates an understanding of the implementation.

Submitting Your Work

Submit a well structured project folder that is structured and organized exactly as shown below. This should match what we have done for previous project homework.

```
StackTemplateClass
    appl
        main-test.cpp
    lib
        Stack.hpp
    Makefile
```

- Compress the content of this folder into a single .zip file.
- You must "make clean" the project before you compress it.
- Your zip file must be named:

```
CS231-HW07-StackTemplate-Yourlastname.zip
```