

EECS 560 Lab 3: Stacks and Queues

Objective

Get familiar with the basic operations supported by stack and queue as well as their array-based implementations.

Specification

1. Complete the missing code in the template files
2. Your “MyStack” and “MyQueue” classes should inherit from your “MyVector” class

Testing and Grading

We will test your implementation using the tester main function posted online. The posted input and output examples should be used for a testing purpose, while we will use another set of inputs for grading. Your code will be compiled under Ubuntu 20.04 LTS using g++ version 9.3.0 (default) with C++11 standard.

Your final score will be determined by the success percentage of your program when fed with many random inputs. **Note that if your code does not compile (together with our tester main function), you will receive 0.** Therefore, it is very important that you ensure your implementation can be successfully compiled before submission.

Submission and Deadline

Please submit your implementation as three .h files, with names “MyStack_[YourKUID].h”, “MyQueue_[YourKUID].h”, and “MyVector_[YourKUID].h” (this file is expected to be the same as your Lab 01 submission). For example, if my KU ID is c123z456, my submission will be three files named “MyStack_c124z456.h”, “MyQueue_c124z456.h”, and “MyVector_c124z456.h”. Submissions that do not comply with the naming specification will not be graded. All submission will go through Blackboard. **The deadline is Friday September 30th, 2022, 11:59PM.**