**Homework 3**

**ITEC 2150**

**Summer 2018**

This program will read a text file. Each line in this text file must be stored in a Queue. You will then create an iterator to walk through Queue. For each String, you will use a recursive method to reverse the String. After reversing the String, store it in a Stack. Pop the lines from the Stack and write them to a file as well as the console.

Create a new exception that will be thrown if the user enters an invalid file name.

Sample Output:

Sets - store a group of nonduplicate elements

Lists - store an ordered collection of elements

Stacks - store objects that are processed in a last-in, first-out fashion

Queues - store objects that are processed in a first-in first-out fashion

Priority Queues - store objects that are processed in the order of their priorities