CSE 311
Lab 5: Stacks and Queues

Postfix Evaluator

A postfix expression is an expression that has only one way of evaluating it. Instead of having mathematical operators between operands and following order of operations such as infix expressions, postfix expressions are read in from left to right, and evaluated in the order that you read in. Numbers are put on the stack, and when you encounter an operator, the last two numbers are popped off and evaluated using the operator and placed back onto the stack. Continue until the end is reached.
Given a postfix expression, such as "A B + C D + * ", finish PostfixEvaluator.py so that it reads numbers and expressions into a stack to evaluate it.

"More" Unix Program

The "More" Unix program is a utility to view parts of a text-based file at a time. In contrast to the "cat" program, which prints out the entire contents of the file, users are given more control in the form of the space bar to scroll and the "u" button to scroll up. Finish More.py using a Queue structure so that it prints out twenty lines at a time. Optionally, to complete the functionality, implement an "up" function that utilizes both the Queue and Stack structure to allow to go both up and down the text file. The challenge here is to read the file only once. You may use multiple Queue and Stack structures.

Happy coding!