CPE 202

Last Name:_____   **First Name:** _____

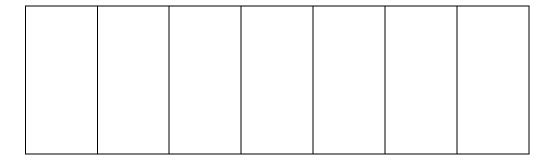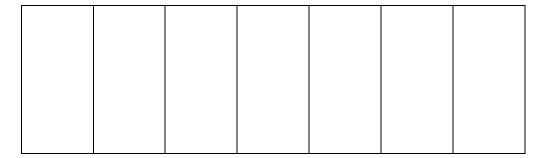Lab Expression Evaluation

1. Show the state of the stack used by postfixEval after each operator is read for the expression
    7 2 3 * 4 – + 6 5 – 8 * +

2. Show the state of the stack used by infixToPostfix after each operator is read for the expression
    7 + (2 * 3 – 4) + (6 – 5) * 8

Recall the Design Recipe
1. What are the inputs and outputs. That is, what is it that the function is supposed to compute or do (return) using what inputs.
2. Write the function signature. What sets of values (data types) specify the input parameters and what data type(s) specify the output Python – use annotations
3. Write a purpose statement explaining what the function is compute. Python this would be a docstring.
4. Write some examples of calling the function, including the results you expect in each case. Test cases.
5. Write the body of the function in pseudo code

3. Apply steps 1-4 of the Design Recipe for the function postfixEval. Clearly label each step by its number.

4. Apply steps 1-4 of the Design Recipe for the function infixToPostfix.   Clearly label each step by its number.