CSC301 Assignment #8

Due Thursday 11/12 in Sakai.

The following exercise refers to the JavaCalc.zip code downloadable from the course website.

**Exercise 3** Modify the CalcParser class from the previous exercise. Instead of evaluating the expression, make it produce a string containing commands to evaluate the expression on a stack machine. You should be able to test it with the same main method as before. For example, if you give the command `java CalcParser 1+2*3`, the output should be a sequence of stack commands such as this:

push 1.0  
push 2.0  
push 3.0  
multiply  
add

For the command `java CalcParser (1+2)*3`, on the other hand, it should print a sequence like this:

push 1.0  
push 2.0  
add  
push 3.0  
multiply

You may start from either the original CalcParser and CalcLexer or your modified version from the previous exercise, whichever you prefer.

10% extra credit if you use parse trees to generate the output code.  
10% extra credit if you use exception to deal with errors.

Show that your code works with some telling examples.