

CSC301 Assignment #8

Due Thursday 11/16 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. Hand in your code and proof that your examples work via Sakai.