Parser

- *This homework is a programming assignment.
- *You need to submit Python files on the GitHub classroom.
- *You need to include your name as a comment in Python files.
- *You also need to submit a screenshot of your GitHub repository on Blackboard.
- *While working on the assignment, read this document THOROUGHLY.

Homework Description

In this homework, you need to complete parserr.py (and modify other files if necessary) so that our parser builds a tree from the below three cases.

- 1. Grouped Expression (ex. 1 * (2 + 5))
- 2. Single Number Expression (ex. 25)
- 3. Expression with Negative Sign (ex. -25 * 3)

Homework Guideline

To get information about how to implement the above cases in a parser, look at 'HW6 resources.pptx' on

Blackboard.

Test Cases

This section provides several test cases to check whether you wrote a parser correctly. In the main.py,

you will change srcCode with the below test cases and see whether your output results are matched

with the ones given in the table.

```
import lexer
```

import parserr

```
srcCode = "1 * (2 + 5)"
```

tokSeq = lexer.tokenize(srcCode)

rootNode = parserr.parse(tokSeq)

parserr.printTree(rootNode)

print()

main.py

Test Case (srcCode) Output Result

$$1*(2+5)(1*(2+5))$$

$$(1+2)*5+4(((1+2)*5)+4)$$

24 24

125 125