NAME: Ben Puryear FILE: hw2-writeup.pdf DATE: Spring 2023

DESC: This pdf will provide a short description of any challenges and/or issues I faced and how I addressed them in this assignment.

Challenges faced:

The only challenge I faced was how to make sure new line, EOF, and space characters would be used to determine where to end the token. The solution was figuring out a way to use peek() to break loops while keeping curr_char the same value.

Testing:

<u>Passing all Tests</u>

```
[-----] Global test environment tear-down
[=======] 32 tests from 1 test suite ran. (0 ms total)
[ PASSED ] 32 tests.
```

Valgrind of all Tests

```
==1004918==
==1004918== HEAP SUMMARY:
==1004918== in use at exit: 0 bytes in 0 blocks
==1004918== total heap usage: 3,145 allocs, 3,145 frees, 274,563 bytes allocated
==1004918==
==1004918== All heap blocks were freed — no leaks are possible
==1004918==
==1004918== For lists of detected and suppressed errors, rerun with: —s
==1004918== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

Tokens.mypl

[1848] Monographitani-Rechool-Pro-2 had-desilida N./mypl —Jen manufar/tokens.mypl
6, 12 comes.
6, 12 comes.
6, 12 comes.
6, 13 comes.
6, 13 comes.
6, 14 comes.
7, 15 comes.
7

Additional Test Text

```
1  # Comment!
2
3  void main(){
4     # Comment 2?
5     int hello = 1
6     hello = hello + 1
7     for(int i = 0; i < 10; i = i + 1){
8         print(hello+i)
9     }
10 }</pre>
```

Additional Test Output

Valgrind Additional Test

```
==1004918==
==1004918== HEAP SUMMARY:
==1004918== in use at exit: 0 bytes in 0 blocks
==1004918== total heap usage: 3,145 allocs, 3,145 frees, 274,563 bytes allocated
==1004918==
==1004918== All heap blocks were freed -- no leaks are possible
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==1004918== For lists of detected and suppressed errors, rerun with: -s
==1004918== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

Additional Test Text

```
# Comment!

void main(){
    # Comment 2?
    int hello = 1
    hello = hello + 1
    for(int i = 0; i < 10; i = i + 1){
        print(hello+i)
    }
}</pre>
```