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CPSC Gitlab: https://gitlab.cpsc.ucalgary.ca/kaumil.patel/cpsc-411

Self Assessment: 8/8

Feedback:

I have tried to follow the best practices outlines by the flex documentation. But I wanted to know if my use of the pattern-matching functionality is correct. If you could let me know about my patterns in scanner.l.

Evidence:

1. Tool (milestone) properties.
   o Example error and warning messages output.
      1. Warning: illegal character '^' at line 11
      2. Error: bitwise AND not supported '& &' at line 2
   o Example output - scan.t14
      1. Warning: illegal character '\' at line 3
      2. Warning: illegal character '^' at line 3
      3. Warning: illegal character '#' at line 3
   o Example output - scan.t19
      1. Number: 12345 at line 2
      2. Operator: ; at line 2
2. Code qualities.
   o I have commented each block of code to identify its purpose. The code is also broken into sections to make it easier to read.
   o The output is correctly directed to stderr or stdout based on its purpose.
   o The code complies and runs without errors, and I have tested this using the tests provided and my own tests. The output matches the reference scanner.
   o I am using flex to simplify the implementation and I have followed the pattern-matching functionality provided.
   o The code is broken into functions and objects to make it modular and easily extendible.
   o Compilation output:
      1. kaumil.patel@csx2:~/cpsc 411$ make
      2. flex++ scanner.l
      3. g++ lex.yy.cc main.cpp -o golf -Wall
      4. rm -f lex.yy.cc
      5. kaumil.patel@csx2:~/cpsc 411$