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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.
   * Example error and warning messages output.
     1. Warning: illegal character '^' at line 11
     2. Error: bitwise AND not supported '& &' at line 2
   * 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
   * Example output - scan.t19
     1. Number: 12345 at line 2
     2. Operator: ; at line 2
2. Code qualities.
   * I have commented each block of code to identify its purpose. The code is also broken into sections to make it easier to read.
   * The output is correctly directed to stderr or stdout based on its purpose.
   * 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.
   * I am using flex to simplify the implementation and I have followed the pattern-matching functionality provided.
   * The code is broken into functions and objects to make it modular and easily extendible.
   * 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$