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

Self Assessment: 3/8

Feedback:

I wanted to know if could lower the amount code of code I have in the semantic checker file.

Revision:

The fact that the error messages are not sufficiently descriptive and that the entire program is contained in a header file has been considered in my revised self-evaluation score. I acknowledge that these are major issues, but they should be easy to fix because the errors are identified in the correct locations and adding better messages will improve readability. Splitting the header file and moving the implementation into a separate c file will fix the one definition rule violation.

Evidence:

The underling ast structure matches the ast generated using the reference compiler. But I need to format my printing function to display all the new information added.

1. Code qualities.
    o Each code block has a comment explaining what it does. To make it simpler to read, the code is also divided into sections.
    o Depending on its intended use, the output is correctly sent to either stderr or stdout.
    o I have verified that the code passes the provided tests as well as my own tests to show that it is compliant and error-free. The results mostly line up with the reference parser.
    o To make the implementation simpler, I am using flex and bison.
    o In order to make the code modular and easily extendable, it is divided into functions and objects.
    o Compilation output:
        1. kaumil.patel@csx2:~/cpsc 411$ make
        2. flex --c++ -o scanner.cc scanner.l
        3. bison parser.yy -o parser.cc -Wall
        4. g++ scanner.cc parser.cc main.cpp -o golf -Wall -Wextra
        5. kaumil.patel@csx2:~/cpsc 411$