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

Self Assessment: 8/8

Feedback:

I have tried to adhere to the recommended practises listed in the bison documentation. But I was curious if I should further subdivide my ast into sub classes. Please advise me if I need to add more nodes to my AST.h file.

Evidence:

1. Tool (milestone) properties.

- Example error and warning messages output.
 - 1. Error: Unexpected token {=} at line 7
- Example output - parse.t5
 - 1. Program
 - 2. func at line 3
 - 3. new id [main] at line 3
 - 4. sig
 - 5. formals
 - 6. id type [void]
 - 7. Block
 - 8. if at line 5
 - 9. == at line 5
 - 10. + at line 5
 - 11. number [2] at line 5
 - 12. number [3] at line 6
 - 13. number [5] at line 7
 - 14. Block
 - 15. empty stmt

2. Code qualities.

- Each code block has a comment explaining what it does. To make it simpler to read, the code is also divided into sections.
- Depending on its intended use, the output is correctly sent to either stderr or stdout.

- 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 line up with the reference parser.
- To make the implementation simpler, I am using flex and bison.
- In order to make the code modular and easily extendable, it is divided into functions and objects. 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$`