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Repo: https://gitlab.cpsc.ucalgary.ca/zhijie.xia/zhijie_cpsc411_final_project

Remarks:

1. The compiler can validate the syntax of input language, and produce a correct AST for the input and perform semantic analysis on the AST.
2. Adapted the feedback of Milestone 2, the modularity has been improved, main.cpp now only contains main(). Semantic analysis is done in semantic.h/.cpp, scanner in scanner.l, and parser is in parser.y.
3. A handful of test are performed, test files can be find in the Milestone3/TEST.
4. The adjusted AST now prints the identifier's type (or return type and parameter types if it is function), and the address of the corresponding entry in the symbol table.

Self Grading:

I would give myself 8 out of 8.

1. The front end of the compiler is complete.
2. All mentioned semantic checks are implmeneted and fully functional.
3. The front end went through detailed testing, test files can be find in Milestone3/TEST.
4. The code has been constantly refactored(evidence in the git log), macros are added to improve readability.