CD Project Abstract

Scanner

We aim to achieve the following:
1. Implement char, int and float data types.
2. Implement loop constructs.
3. Implement if...else conditional construct.
4. Implement structures.
5. Implement comments and removed them.
6. Generate symbol table.
7. Implemented checks for lexical errors, with error messages.

Parser

We aim to achieve the following:
1. Implement for loop constructs.
2. Implement declaration statements.
3. Show syntactical errors.
4. Minimize shift-reduce conflicts, and eliminate reduce-reduce conflicts.
5. Implement if...else conditional construct.

Semantic Checker

We aim to achieve the following:
1. Implement checks as listed in class.
2. Build symbol table for checking and in-code generation.
3. Implement semantic error checking with inclusion of line(s) with error.

Intermediate Code Generator

We aim to achieve the following:
1. Generate three address code for C programs.
2. Verify generated code for desired outputs.