

DESIGN DECISIONS

We chose to use Ocaml because its syntax allows us to write “switch” statements easily and clearly. It has great lexer and parser tool that makes writing a compiler very convenient.

- int, float literals are stored as a string in the parsing phase so we don't need to deal with different types of int literals in the parser.
- all identifiers can be types for now to allow user defined types, and the illegal type identifiers will be caught in the type checking phase.
- allow all statements in the function body in the parser, and remove the statements are non-terminal in the weeding phase, since the conditions for terminal statements are very complex.

To note:

Due to lack of time, parser is not working properly and many cases are untested.
The semicolon insertion has problems.
PrettyPrinter is implemented but not compiling, so it's not linked in the main.ml.