Grammar

Implemented: (sort of)

$$[prog] \rightarrow [stmt]^*$$

$$[stmt] \rightarrow \begin{cases} \{[type]\} \ \langle ident \rangle = [expr]; \quad \text{variable (re)assignment} \\ ret \ [expr]; \quad \text{exit/return} \end{cases}$$

$$[expr] \rightarrow \begin{cases} [term] \\ [binexpr] \\ -[expr] \quad \text{negative expression (underscore)} \end{cases}$$

$$[binexpr] \rightarrow \begin{cases} [expr] + [expr] \quad prec = 0 \\ [expr] - [expr] \quad prec = 0 \\ [expr] * [expr] \quad prec = 1 \\ [expr] / [expr] \quad prec = 1 \end{cases}$$

$$[term] \rightarrow \begin{cases} \langle int_lit \rangle \\ \langle ident \rangle \end{cases}$$

$$[type] \rightarrow \{int]$$

Todo:

$$[prog] \rightarrow [stmt]^*$$

$$[stmt] \rightarrow \begin{cases} ret \ [expr]; \\ [type] \ ident = [expr]; \\ if([expr])[stmt] \\ [scope] \end{cases}$$

$$[scope] \rightarrow \{[stmt]^*\}$$

$$[expr] \rightarrow \begin{cases} [binexpr] \\ [term] \end{cases}$$

$$[expr] * [expr] \quad prec = 1$$

$$[expr] * [expr] \quad prec = 0$$

$$[expr] + [expr] \quad prec = 0$$

$$[expr] - [expr] \quad prec = 0$$

$$[int_lit \quad ident \quad ([Expr]) \\ TRUE \quad FALSE \quad 'c' \quad \end{cases}$$

$$[type] \rightarrow \begin{cases} int \quad bool \\ char \quad float \end{cases}$$