

## Grammar

### Implemented:

$$\begin{aligned}[prog] &\rightarrow [stmt]^* \\ [stmt] &\rightarrow \{ ret \ [expr]; \\ [expr] &\rightarrow [term] \\ [term] &\rightarrow int\_lit\end{aligned}$$

### Todo:

$$\begin{aligned}[prog] &\rightarrow [stmt]^* \\ [stmt] &\rightarrow \begin{cases} ret \ [expr]; \\ [type] \ ident = [expr]; \\ if([expr])[stmt] \\ [scope] \end{cases} \\ [scope] &\rightarrow \{ [stmt]^* \} \\ [expr] &\rightarrow \begin{cases} [binexpr] \\ [term] \end{cases} \\ [binexpr] &\rightarrow \begin{cases} [expr] * [expr] & prec = 1 \\ [expr] / [expr] & prec = 1 \\ [expr] + [expr] & prec = 0 \\ [expr] - [expr] & prec = 0 \end{cases} \\ [term] &\rightarrow \begin{cases} int\_lit \\ ident \\ ([Expr]) \\ TRUE \\ FALSE \\ 'c' \end{cases} \\ [type] &\rightarrow \begin{cases} int \\ bool \\ char \\ float \end{cases}\end{aligned}$$