Rules

- Variable *shadowing* is **not** allowed. Having a variable with the same name in an inner scope is invalid, unless the variable is first declared in the inner scope.
- You must terminate a statement with a semicolon, unless that statement ends with a scope.
- Single line comments are denoted by '//' and Multi-line comments are denoted with '/* */'

Producers

$$[Prog] \rightarrow [Statement]^*$$

$$\begin{cases} exit([Expr]); \\ set ID = [Expr]; \\ reset ID = [textExpr]; \\ if([Expr])[Scope][AfterIf] \\ [Scope] \end{cases}$$

$$[Scope] \rightarrow \{[Stmt]^*\}$$

$$[AfterIf] \rightarrow \begin{cases} elsif([Expr])[Scope][AfterIf] \\ else([Expr])[Scope] \end{cases}$$

$$[Expr] \rightarrow \begin{cases} [Term] \\ [BinaryExpr] \end{cases}$$

$$\begin{cases} [Expr] \times [Expr] & precedence = 1 \\ [Expr] \div [Expr] & precedence = 1 \\ [Expr] + [Expr] & precedence = 0 \\ [Expr] - [Expr] & precedence = 0 \end{cases}$$

$$[Term] \rightarrow \begin{cases} int_lit \\ ID \\ ([Expr]) \end{cases}$$