```
STATEMENT -> (SIMPLE_STMT | SELECTION_STMT | STATEMENT) ENDCOMMAND
SIMPLE_STMT -> ASSIGN | DECLARE | PRINT STMT | INPUT STMT
SELECTION_STMT -> IF_STMT | ELIF_STMT | ELSE_STMT | WHILE_STMT
COMPOUND_STMT -> OPEN_SCOPE CLOSE_SCOPE
                  OPEN_SCOPE STATEMENT CLOSE_SCOPE
/// OPERATORS
ARITHMETIC_OP -> PLUS | MINUS | DIVISION | MULTIPLY
COMPARISON_OP -> DIFFERENT | EQUALS | GREATER | GREATER_EQUALS | LESS | LESS_EQUALS
LOGICAL_OP -> AND | OR
/// EXPRESSIONS
ARITHMETIC_EXPR -> ARITHMETIC _TERM
                | ARITHMETIC_TERM PLUS ARITHMETIC _EXPR
                ARITHMETIC TERM MINUS ARITHMETIC EXPR
ARITHMETIC_TERM -> ARITHMETIC _FACTOR
                 ARITHMETIC FACTOR MULT ARITHMETIC TERM
                 | ARITHMETIC FACTOR DIVIDE ARITHMETIC TERM
ARITHMETIC_FACTOR -> NUMBER_LITERAL
                   | IDENTIFIER
                   L PAREN ARITHMETIC EXPR R PAREN
COMPARISON EXPR -> COMPARISON TERM COMPARISON OP COMPARISON TERM
COMPARISON_TERM -> LITERAL
                   | IDENTIFIER
                   | ARITHMETIC EXPR
                   | L_PAREN COMPARISON_TERM R_PAREN
LOGICAL_EXPR -> LOGICAL TERM
               | LOGICAL_EXPR OR LOGICAL_TERM
LOGICAL_TERM -> LOGICAL_FACTOR
               | LOGICAL_TERM AND LOGICAL_TERM
LOGICAL_FACTOR -> IDENTIFIER
                 | LITERAL
                 | EXPR
                 | L_PAREN LOGICAL_EXPR R_PAREN
CONDITIONAL_EXPR -> EXPR | LITERAL | IDENTIFIER
EXPR -> ARITHMETIC_EXPR | LOGICAL_EXPR | COMPARISON_EXPR
```

// STATEMENTS

```
/// GENERAL
LITERAL -> BOOLEAN_LITERAL | NUMBER_LITERAL | STRING_LITERAL
VAR_TYPE -> TYPE_BOOLEAN | TYPE_NUMBER | TYPE_STRING
ASSIGN -> VAR_TYPE IDENTIFIER VAR_ASSIGN_OPERATOR (LITERAL | IDENTIFIER | EXPR)
         | IDENTIFIER VAR_ASSIGN_OPERATOR (LITERAL | IDENTIFIER | EXPR)
DECLARE -> VAR_TYPE IDENTIFIER
/// CONDITIONALS
IF_STMT -> IF CONDITIONAL_EXPR COMPOUND_STMT
ELIF_STMT -> ELIF CONDITIONAL_EXPR COMPOUND_STMT
ELSE_STMT -> ELSE COMPOUND_STMT
/// LOOPS
WHILE_STMT -> WHILE CONDITIONAL_EXPR COMPOUND_STMT
// OUTPUT
PRINT_STMT -> PRINT L_PAREN (IDENTIFIER | LITERAL) R_PAREN
// INPUT
INPUT_STMT -> INPUT L_PAREN R_PAREN
```