Grammar Rules

```
STATEMENT_LIST :=
    STATEMENT_LIST STATEMENT
  | STATEMENT
;


ENDIF_STATEMENT_LIST :=
    STATEMENT_LIST END_IF
;


ELSE_STATEMENT_LIST :=
    STATEMENT_LIST ELSE
;


ENDWHILE_STATEMENT_LIST :=
    STATEMENT_LIST END_WHILE
;


STATEMENT :=
    WHILE   EXPRESSION ENDWHILE_STATEMENT_LIST
  | IF      EXPRESSION ENDIF_STATEMENT_LIST
  | IF      EXPRESSION ELSE_STATEMENT_LIST ENDIF_STATEMENT_LIST
  | VAR     EXPRESSION
  | SAY     EXPRESSION
  | OUTPUT  EXPRESSION EXPRESSION
  | VAR     AS_PLUS   EXPRESSION
  | VAR     AS_MINUS  EXPRESSION
  | VAR     AS_MULT   EXPRESSION
  | VAR     AS_DIV    EXPRESSION
  | VAR     AS_POW    EXPRESSION
  | VAR     AS_MOD    EXPRESSION
;


EXPRESSION :=
    NUM
  | VAR
  | EXPRESSION EX_PLUS EXPRESSION
  | EXPRESSION EX_MINUS EXPRESSION
  | EXPRESSION EX_MULT EXPRESSION
  | EXPRESSION EX_DIV EXPRESSION
  | EX_MINUS EXPRESSION
  | EXPRESSION EX_POW EXPRESSION
  | EXPRESSION EX_MOD EXPRESSION
  | EXPRESSION EX_EQ EXPRESSION
  | EXPRESSION EX_GT EXPRESSION
  | EXPRESSION EX_LT EXPRESSION
  | EXPRESSION EX_LE EXPRESSION
  | EXPRESSION EX_GE EXPRESSION
  | EXPRESSION EX_NE EXPRESSION
  | EX_CLAIMATION EXPRESSION
  | LPAREN EXPRESSION RPAREN
;
```