```
program ->
        function-block
function-block ->
        function function-block
function ->
        FUNCTION identifier SEMICOLON BEGIN PARAMS declaration-block-
optional END_PARAMS BEGIN_LOCALS declaration-block-optional END_LOCALS
BEGIN BODY statement-block-optional END BODY
declaration-block-optional ->
        epsilon | declaration-block
declaration-block ->
        declaration SEMICOLON | declaration SEMICOLON declaration-
block
statement-block-optional ->
        epsilon | statement-block
statement-block ->
        statement SEMICOLON | statement SEMICOLON statement-block
declaration ->
        identifier-block COLON declaration-type
declaration-type ->
        INTEGER | ARRAY L_SQUARE_BRACKET NUMBER R_SQUARE_BRACKET OF
INTEGER
identifier-block ->
        identifier | identifier COMMA identifier-block
identifier ->
        IDENT
statement ->
        var ASSIGN expression
      | IF bool-expr THEN statement-block ENDIF
      | IF bool-expr THEN statement-block ELSE statement-block ENDIF
      WHILE bool-expr BEGINLOOP statement-block ENDLOOP
      DO BEGINLOOP statement-block ENDLOOP WHILE bool-expr
      | READ var-block
      | WRITE var-block
      BREAK
```

```
RETURN expression
bool-expr ->
        relation-and-expr
      | relation-and-expr OR bool-expr
relation-and-expr ->
        relation-expr
      relation-expr AND relation-and-expr
relation-expr ->
        relation-expr-body
      | NOT relation-expr-body
relation-expr-body ->
        expression comp expression
      TRUE
      FALSE
      | L PAREN bool-expr R PAREN
comp ->
        ΕQ
       NEQ
       LT
       GT
      l LTE
      GTE
expression ->
        multiplicative-expr
      | multiplicative-expr ADD expression
      multiplicative-expr SUB expression
multiplicative-expr ->
      term MULT multiplicative-expr
      | term DIV multiplicative-expr
      | term MOD multiplicative-expr
term ->
       term-body
      | MINUS term-body
      | IDENT L_PAREN expression-block R_PAREN
term-body ->
        NUMBER
```