```
program ::=
              | function program
function ::= FUNCTION identifier SEMICOLON BEGIN_PARAMS decline END_PARAMS BEGIN_LOCALS
decline END LOCALS BEGIN BODY statline END BODY
declaration ::= identifier COMMA declaration | identifier COLON INTEGER | identifier COLON ARRAY
L SQUARE BRACKET number R SQUARE BRACKET OF INTEGER
number ::= NUMBER
decline ::= | declaration SEMICOLON decline
identifier ::= IDENT
statement ::= var ASSIGN expression | IF boolexp THEN statline stathelp ENDIF| WHILE boolexp
BEGINLOOP statline ENDLOOP | DO BEGINLOOP statline ENDLOOP WHILE boolexp | FOR var ASSIGN
number SEMICOLON boolexp SEMICOLON var ASSIGN expression BEGINLOOP statline ENDLOOP | READ
varline | WRITE varline | CONTINUE | RETURN expression
stathelp ::= | ELSE statline
varline ::= var | var COMMA varline
statline ::= | statement SEMICOLON statline
boolexp ::= relationandexpr | relationandexpr OR boolexp
relationandexpr ::= relationexpr | relationexpr AND relationandexpr
relationexpr ::= NOT relationhelper | relationhelper
relationhelper ::= expression comp expression | TRUE | FALSE | L_PAREN boolexp R_PAREN
           EQ | NEQ | LT | GT | LTE | GTE
expression ::=
               multiplicativeexp | multiplicativeexp ADD expression | multiplicativeexp SUB
expression
multiplicativeexp ::= term | term MULT multiplicativeexp | term DIV multiplicativeexp | term MOD
multiplicativeexp
term ::=
          term1 | SUB term1 | identifier L_PAREN expresscomm R_PAREN
term1 ::= var | number | L PAREN expression R PAREN
         identifier | identifier L SQUARE BRACKET expression R SQUARE BRACKET
var ::=
expresscomm ::= expression | expression COMMA expresscomm
```