Program → Program Function | ε

Functions → "function" identifier ";" "beginparams" Declarations "endparams" "beginlocals"
                          Declarations "endlocals" "beginbody" Statements "endbody"

Declarations → Declaration ";" Declarations | ε

Statements → Statement ";" Statements | Statement ";"

Declaration → Identifiers ":" "integer" | "array" "[" number "]" "of" "integer"

Identifiers → identifier "," Identifiers | identifier

Statement → Var ":=" Expression
                    | "if" Bool-Exp "then" Statements "endif"
                    | "if" Bool-Exp "then" Statements "else" Statements "endif"
                    | "do" "beginloop" Statements "endloop" "while" Bool-Expr
                    | "read" Vars
                    | "write" Vars
                    | "continue"
                    | "return" Expression

Vars → Var "," Vars | Var

Bool-Expr → Relation-And-Expr "or" Bool-Expr | Relation-And-Expr

Relation-And-Expr → Relation-Expr "and" Relation-And-Expr | Relation-Expr

Relation-Expr → Nots Expression Comp Expression
                    | Nots "true"
                    | Nots "false"
                    | Nots "(" Bool-Expr ")"

Nots → not Nots | ε

Comp → "==" | "<>" | "<" | ">" | "<=" | ">="

Expression → Multiplicative-Expr "+" Expression
                    | Multiplicative-Expr "-" Expression
                    | Multiplicative-Expr

Multiplicative-Expr → Term "*" Multiplicative-Expr
                | Term "/" Multiplicative-Expr
                | Term "%" Multiplicative-Expr
                | Term

Term → Mins Var
    | Mins number
    | Mins "(" Expression ")"
    | identifier "(" Expressions ")"

Mins → "-" Mins | ε

Expressions → Expression "," Expressions | Expression | ε

Var → identifier
    | identifier "[" Expression "]"