```
program ::= "VAR" decllist ";" cmpdstmt "."

decllist ::= declaration | declaration ";" decllist

declaration ::= IDENTIFIER ":" type

type1 ::= "BOOLEAN" | "CHAR" | "INTEGER" | "String" | "List" | "Array"

listdecl ::= "list" "["*,*,..."]" "OF" type1

arraydecl ::= "ARRAY" "[" nr "]" "OF" type1

type  ::= type1|arraydecl

cmpdstmt ::= "BEGIN" stmtlist "END"

stmtlist ::= stmt | stmt ";" stmtlist

stmt ::= simplstmt | structstmt

simplstmt ::= assignstmt | iostmt

assignstmt ::= IDENTIFIER ":=" expression

expression ::= expression "+" term | term

term ::= term "*" factor | factor

factor ::= "(" expression ")" | IDENTIFIER

iostmt ::= "READ" | "WRITE" "(" IDENTIFIER ")"

structstmt ::= cmpdstmt | ifstmt | whilestmt

ifstmt ::= "IF" condition "THEN" stmt ["ELSE" stmt]

whilestmt ::= "WHILE" condition "DO" stmt

condition ::= expression RELATION expression

RELATION ::= "<" | "<=" | "="  | ">=" | ">"
```