```
\langle Program \rangle
                                ::= \langle Declarations \rangle \langle Body \rangle
                                 ::= 'BEGIN' (InstructionList) 'END'
\langle Body \rangle
\langle Declaration \rangle
                                 ::=\langle id \rangle
                                   |\langle id\rangle '['\langle num\rangle']'
                                   |\langle id\rangle '[' \langle num\rangle ']' '[' \langle num\rangle ']'
                                 ::= 'VAR' \(\langle DeclarationsList\rangle \';'
⟨Declarations⟩
\langle DeclarationsList \rangle ::= \langle Declaration \rangle
                                   | \langle DeclarationsList \rangle ', ' \langle Declaration \rangle
\langle Term \rangle
                                 ::=\langle id\rangle
                                   | \langle num \rangle
                                   |\langle id\rangle '[' \langle ExpAdditiv\rangle ']'
                                   |\langle id \rangle '[' \langle ExpAdditiv \rangle ']' '[' \langle ExpAdditiv \rangle ']'
                                   ('\langle Exp\rangle')'
                                   I 'NOT' \langle Exp \rangle
⟨Variable⟩
                                 ::=\langle id \rangle
                                   |\langle id\rangle '[' \langle ExpAdditiv\rangle ']'
                                   |\langle id \rangle '[' \langle ExpAdditiv \rangle ']' '[' \langle ExpAdditiv \rangle ']'
\langle ExMultipl \rangle
                                 ::= \langle Term \rangle
                                  | \langle ExMultipl\rangle '*' \langle Term\rangle
                                   \mid \langle ExMultipl \rangle '/' \langle Term \rangle
                                   | ⟨ExMultipl⟩ '%' ⟨Term⟩
                                   \mid \langle ExMultipl \rangle 'AND' \langle Term \rangle
\langle ExpAdditiv \rangle
                                 ::= \langle ExMultipl \rangle
                                   \mid \langle ExpAdditiv \rangle '+' \langle ExMultipl \rangle
                                  | \langle ExpAdditiv \rangle '-' \langle ExMultipl \rangle
                                   \langle Exp \rangle
                                 ::= \langle ExpAdditiv \rangle
                                   | ('\langle ExpAdditiv\rangle '>'\langle ExpAdditiv\rangle ')'
                                   | ('\langle ExpAdditiv\rangle '<'\langle ExpAdditiv\rangle ')'
                                   ('(ExpAdditiv)')='(ExpAdditiv)')'
                                   | '('\langle ExpAdditiv\rangle '<='\langle ExpAdditiv\rangle ')'
                                   | (`\langle ExpAdditiv \rangle '=='\langle ExpAdditiv \rangle ')'
                                   | ('\langle ExpAdditiv\rangle '! = '\langle ExpAdditiv\rangle ')'
⟨Atribution⟩
                                 ::= \langle Variable \rangle '=' \langle ExpAdditiv \rangle
```

```
\langle Instruction \rangle \qquad ::= \langle Atribution \rangle \ '; \\ | \ `READ' \langle Variable \rangle \ '; \\ | \ `WRITE' \langle ExpAdditiv \rangle \ '; \\ | \ `WRITE' \langle string \rangle \ '; \\ | \ `IF' \ (' \langle Exp \rangle \ ') \ ` \{' \langle InstructionsList \rangle \ ` \}' \ `ELSE' \ ` \{' \langle InstructionsList \rangle \ ` \}' \\ | \ `WHILE \ ` (' \langle Exp \rangle \ ') \ ` \{' \langle InstructionsList \rangle \ ` \}' \\ | \ `DO'' \{' \langle InstructionsList \rangle \ ` \}' \ `WHILE \ ` (' \langle Exp \rangle \ ') \ ` ; ' \\ | \ `InstructionList \rangle \qquad ::= \langle Instruction \rangle \\ | \ \langle InstructionList \rangle \ \langle Instruction \rangle
```