```
::= ProgramHead DeclarePart
                                               ProgramBody
1)
   Program
2)
   ProgramHead
                   ::= PROGRAM ProgramName
   ProgramName
                   ::= ID
                   ::= TypeDec VarDec ProcDec
4)
   DeclarePart
                   ::= $ | TypeDeclaration
5)
   TypeDec
   TypeDeclaration ::= TYPE TypeDecList
6)
                   ::= TypeId = TypeName ; TypeDecMore
TypeDecList
8)
                   ::= $ | TypeDecList
   TypeDecMore
9)
   TypeId
                   ::= ID
                                   StructureType
10) TypeName
                                                    ID
                   ::= BaseType
11) BaseType
                   ::= INTEGER | CHAR
                   ::= ArrayType | RecType
12) StructureType
                   ::= ARRAY [low..top ] OF BaseType
13) ArrayType
14) Low
                   ::= INTC
15) Top
                   ::= INTC
16) RecType
                   ::= RECORD
                              FieldDecList
                                               END
                  ::= BaseType IdList; FieldDecMore
                                                         ArrayType IdList
17) FieldDecList
FieldDecMore
                            FieldDecList
18) FieldDecMore
                   ::= $
19) IdList
                   ::= ID IdMore
20) IdMore
                  ::= $
                           ,IdList
21) VarDec
                           VarDeclaration
                   ::= $
22) VarDeclaration ::= VAR VarDecList
23) VarDecList ::= TypeName VarIdList ; VarDecMore
24) VarDecMore
                  ::= $ | VarDecList
25) VarIdList
                   ::= id
                           VarIdMore
                  ::= $
26) VarIdMore
                          , VarIdList
                          ProcDeclaration
27) ProcDec
                  ::= $
28) ProcDeclaration ::= PROCEDURE
                       ProcName ( ParamList ) ;
                       ProcDecPart
                       ProcBody
                       ProcDecMore
29) ProcDecMore
                   ::= $ | ProcDeclaration
30) ProcName
                   ::= ID
31) ParamList
                   ::= $
                            ParamDecList
32) ParamDecList
                   ::= Param ParamMore
                   ::= $ | ; ParamDecList
33) ParamMore
34) Param
                   ::= TypeName FormList | VAR TypeName
                                                        FormList
35) FormList
                   ::= ID FidMore
                ::= $ | , FormList
36) FidMore
37) ProcDecPart
                  ::= DeclarePart
38) ProcBody
                   ::= ProgramBody
39) ProgramBody
                  ::= BEGIN StmList END
40) StmList
                  ::= Stm
                              StmMore
                   ::= $ | ;
41) StmMore
                             StmList
                   ::= ConditionalStm | LoopStm | InputStm | OutputStm | ReturnStm
42) Stm
|ID AssCall
43) AssCall
                   ::= AssignmentRest | CallStmRest
44) AssignmentRest ::= VariMore
                                      := Exp
45) ConditionalStm ::= IF RelExp THEN StmList ELSE StmList FI
                  ::= WHILE RelExp_DO StmList ENDWH
46) LoopStm
                   ::= READ ( Invar)
47) InputStm
48) Invar
                   ::= ID
```

