```
Gramática LL(1) SPL
S = 'func' LDeclFunc 'end' 'int' 'main' '(' LDeclArgs ')' '{' FuncBody '}'
LDeclFunc = DeclFunc LDeclFunc
LDeclFunc = &
DeclFunc = Decl '(' LDeclArgs ')' '{' FuncBody '}'
LDeclArgs = Decl LDeclArgsT
LDeclArgs = &
LDeclArgsT = ',' Decl LDeclArgsT
LDeclArgsT = &
FuncBody = 'decl' LDecl 'end' LInstruc
LDecl = Decl ';' LDecl
LDecl = &
Decl = Type tkId
Decl = 'array' Type '[' ArrDeclNum ']' tkId
ArrDeclNum = 'int'
ArrDeclNum = &
LInstruc = Instruc LInstruc
LInstruc = &
Instruc = tkId Arr AtrbFun ';'
Instruc = 'while' '(' Es ')' '{' LInstruc '}'
Instruc = 'for' '(' tkId ':' Es ',' Es ')' '{' LInstruc '}'
Instruc = 'return' Value ';'
Instruc = 'if' '(' Es ')' '{' LInstruc '}' CondElse
Arr = '[' Es ']'
AtrbFun = '=' Es
AtrbFun = '(' LArgs ')'
CondElse = 'else' '{' LInstruc }
CondElse = &
Es = Eb Esr
Esr = '#' Eb Esr
Esr = &
Eb = Tb Ebr
Ebr = '|' Tb Ebr
Ebr = &
Tb = Fb Tbr
Tbr = '&' Fb Tbr
Tbr = &
Fb = '!' Fb
Fb = Ei
Ei = Ec Eir
Eir = Opi Ec
Eir = &
Ec = Ea Ecr
Ecr = Opc Ea
Ecr = &
```

```
Ea = Er Ear
Ear = Opa Er Ear
Ear = \&
Er = Ta Err
Err = '%' Ta Err
Err = &
Ta = Fa Tar
Tar = Opm Fa Tar
Tar = &
Fa = '~' Fa
Fa = '(' Es ')'
Fa = Value
LArgs = Es LArgsT
LArgs = &
LArgsT = ',' Es LArgsT
LArgsT = &
Value = tkId Valuer
Value = cInt
Value = cFloat
Value = cChar
Value = cString
Value = cBool
Valuer = '[' Es ']'
Valuer = '(' LArgs ')'
Type = 'int'
Type = 'float'
Type = 'string'
Type = 'char'
Type = 'bool'
```