

PROGRAM -> STATEMENT
PROGRAM -> FUNCLIST
PROGRAM -> ϵ

FUNCLIST -> FUNCDEF FUNCLIST
FUNCLIST -> FUNCDEF

FUNCDEF -> **def ident**(PARAMLIST){STATELIST}

PARAMLIST -> **int ident**, PARAMLIST
PARAMLIST -> **float ident**, PARAMLIST
PARAMLIST -> **string ident**, PARAMLIST
PARAMLIST -> **int ident**
PARAMLIST -> **float ident**
PARAMLIST -> **string ident**
PARAMLIST -> ϵ

STATEMENT -> VARDECL;
STATEMENT -> ATRIBSTAT;
STATEMENT -> PRINTSTAT;
STATEMENT -> READSTAT;
STATEMENT -> RETURNSTAT;
STATEMENT -> IFSTAT
STATEMENT -> FORSTAT
STATEMENT -> {STATELIST}
STATEMENT -> **break**;
STATEMENT -> ;

VARDECL -> **int ident** VARDECLAUX
VARDECL -> **float ident** VARDECLAUX
VARDECL -> **string ident** VARDECLAUX
VARDECLAUX -> [**int_constant**]VARDECLAUX
VARDECLAUX -> [**int_constant**]
VARDECLAUX -> ϵ

ATRIBSTAT -> LVALUE = EXPRESSION
ATRIBSTAT -> LVALUE = ALOC EXPRESSION
ATRIBSTAT -> LVALUE = FUNCCALL

FUNCCAL -> **ident**(PARAMLISTCALL)

PARAMLISTCALL -> **ident**, PARAMLISTCALL
PARAMLISTCALL -> **ident**
PARAMLISTCALL -> ϵ

PRINTSTAT -> **print** EXPRESSION

READSTAT -> **read** LVALUE

RETURNSTAT -> return

IFSTAT -> if(EXPRESSION) STATEMENT else STATEMENT

IFSTAT -> if(EXPRESSION) STATEMENT

FORSTAT -> for(ATRIBSTAT; EXPRESSION; ATRIBSTAT) STATEMENT

STATELIST -> STATEMENT STATELIST

STATELIST -> STATEMENT

ALLOCEXPRESSION -> new int [NUMEXPRESSION]ALLOCEXPRESSIONAUX

ALLOCEXPRESSION -> new float [NUMEXPRESSION]ALLOCEXPRESSIONAUX

ALLOCEXPRESSION -> new string [NUMEXPRESSION]ALLOCEXPRESSIONAUX

ALLOCEXPRESSIONAUX -> [NUMEXPRESSION]ALLOCEXPRESSIONAUX

ALLOCEXPRESSIONAUX -> ϵ

EXPRESSION -> NUMEXPRESSION

EXPRESSION -> NUMEXPRESSION < NUMEXPRESSION

EXPRESSION -> NUMEXPRESSION > NUMEXPRESSION

EXPRESSION -> NUMEXPRESSION <= NUMEXPRESSION

EXPRESSION -> NUMEXPRESSION >= NUMEXPRESSION

EXPRESSION -> NUMEXPRESSION == NUMEXPRESSION

EXPRESSION -> NUMEXPRESSION != NUMEXPRESSION

NUMEXPRESSION -> TERM NUMEXPRESSIONAUX

NUMEXPRESSIONAUX -> + TERM NUMEXPRESSIONAUX

NUMEXPRESSIONAUX -> - TERM NUMEXPRESSIONAUX

NUMEXPRESSIONAUX -> ϵ

TERM -> UNARYEXPR TERMAUX

TERMAUX -> * UNARYEXPR TERMAUX]

TERMAUX -> / UNARYEXPR TERMAUX

TERMAUX -> % UNARYEXPR TERMAUX

TERMAUX -> ϵ

UNARYEXPR -> FACTOR

UNARYEXPR -> + FACTOR

UNARYEXPR -> - FACTOR

FACTOR -> int_constant

FACTOR -> float_constant

FACTOR -> string_constant

FACTOR -> null

FACTOR -> LVALUE

FACTOR -> (NUMEXPRESSION)

LVALUE -> ident LVALUEAUX

LVALUEAUX \rightarrow [NUMEXPRESSION] LVALUEAUX

LVALUEAUX \rightarrow ϵ