Grammar for Mini_L

```
prog_start      →  function prog_start
                   |  ϵ

function        →  FUNCTION ident SEMICOLON BEGIN_PARAMS declarations END_PARAMS
                   BEGIN_LOCALS declarations END_LOCALS BEGIN_BODY stmtloop END_BODY

declarations    →  decbranch1 declarations
                   |  ϵ
decbranch1      →  ident COMMA decbranch1
                   |  ident COLON decbranch2 INTEGER SEMICOLON
decbranch2      →  ARRAY L_SQUARE_BRACKET number R_SQUARE_BRACKET OF
                   |  ϵ

stmtloop        →  statements SEMICOLON stmtloop
                   |  statements SEMICOLON
statements      →  stmtbranch1
                   |  stmtbranch2
                   |  stmtbranch3
                   |  stmtbranch4
                   |  stmtbranch5
                   |  stmtbranch6
                   |  stmtbranch7
                   |  stmtbranch8
                   |  stmtbranch9
stmtbranch1     →  var ASSIGN expr
stmtbranch2     →  IF boolexpr THEN stmtloop stmtbranch21 ENDIF
stmtbranch21    →  ELSE stmtloop
                   |  ϵ
stmtbranch3     →  WHILE boolexpr BEGINLOOP stmtloop ENDLOOP
stmtbranch4     →  DO BEGINLOOP stmtloop ENDLOOP WHILE boolexpr
stmtbranch5     →  FOR var ASSIGN number SEMICOLON boolexpr SEMICOLON var ASSIGN
                   expr BEGINLOOP stmtloop ENDLOOP
stmtbranch6     →  READ stmtbranch61
stmtbranch61    →  var COMMA stmtbranch61
                   |  var
stmtbranch7     →  WRITE stmtbranch71
stmtbranch71    →  var COMMA stmtbranch71
                   |  var
stmtbranch8     →  CONTINUE
stmtbranch9     →  RETURN expr

boolexpr        →  relandexpr boolbranch
boolbranch      →  OR relandexpr boolbranch
                   |  ϵ
```

relandexpr	→	relexpr raebranch
raebranch	→	AND relexpr raebranch
		| ϵ
relexpr	→	NOT relexpr
		| expr comp expr
		| TRUE
		| FALSE
		| L_PAREN boolexpr R_PAREN
comp	→	EQ
		| NEQ
		| LT
		| GT
		| LTE
		| GTE
expr	→	multexpr exprbranch
exprbranch	→	exprop multexpr exprbranch
		| ϵ
exprop	→	ADD
		| SUB
multexpr	→	term multexprbraanch
multexprbranch	→	multexprop term multexprbranch
		| ϵ
multexprop	→	MULT
		| DIV
		| MOD
term	→	termbranch1
		| termbranch2
termbranch1	→	SUB termbranch1
		| var
		| number
		| L_PAREN expr R_PAREN
termbranch2	→	ident L_PAREN termbranch21 R_PAREN
termbranch21	→	termbranch22
		| ϵ
termbranch22	→	expr COMMA termbranch22
		| expr
var	→	ident varbranch
varbranch	→	L_SQUARE_BRACKET expr R_SQUARE_BRACKET
		| ϵ
ident	→	IDENT
number	→	NUMBER