

MiniC grammer

program	→ decl_list
decl_list	→ decl_list decl decl
decl	→ var_decl fun_decl
var_decl	→ type_spec IDENT ; type_spec IDENT [] ;
type_spec	→ VOID BOOL INT FLOAT
fun_decl	→ type_spec IDENT (params) compound_stmt
params	→ param_list VOID
param_list	→ param_list , param param
param	→ type_spec IDENT type_spec IDENT []
stmt_list	→ stmt_list stmt ε
stmt	→ expr_stmt compound_stmt if_stmt while_stmt return_stmt break_stmt
expr_stmt	→ expr ; ;
while_stmt	→ WHILE (expr) stmt
compound_stmt	→ { local_decls stmt_list }
local_decls	→ local_decls local_decl ε
local_decl	→ type_spec IDENT ; type_spec IDENT [] ;
if_stmt	→ IF (expr) stmt IF (expr) stmt ELSE stmt
return_stmt	→ RETURN ; RETURN expr ;

expr	→ IDENT = expr IDENT [expr] = expr → expr OR expr → expr EQ expr expr NE expr → expr LE expr expr < expr expr GE expr expr > expr → expr AND expr → expr + expr expr - expr → expr * expr expr / expr expr % expr → ! expr - expr + expr → (expr) → IDENT IDENT [expr] IDENT (args) IDENT . size → BOOL_LIT INT_LIT FLOAT_LIT NEW type_spec [expr]
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arg_list	→ arg_list , expr expr
args	→ arg_list ε