```
program ->
translation_unit
translation_unit ->
external_declaration
| translation_unit external_declaration
external_declaration ->
function_definition
| declaration
function_definition ->
type_specifier IDENTIFIER LP RP compound_statement (inside brankets)
| type_specifier IDENTIFIER LP para_list RP compound_statement
(变量声明语句)
declaration ->
para_list SEMI (int 有的函数声明不用声明变量名)
| ANNOTATION
para_list ->
| value
| IDENTIFIER
| declaration
| para_list COMMA para_list
(陈列变量,一个或多个)
init_declarator_list ->
init_declarator
```

```
declaration ->
type_specifier
| DEFINE IDENTIFIER value
| type_specifier init_declarator_list
| IDENTIFIER LP para_list RP
| IDENTIFIER LP RP
| IDENTIFIER LP init_declarator_list RP
init_declarator_list -> init_declarator | init_declarator_list COMMA init_declarator_list
 (陈列变量名,初始化或不)
init_declarator ->
declarator (变量名们)
| declarator ASSIGNOP(等号) value
declarator ->
IDENTIFIER
| declarator COMMA(逗号) declarator
| declarator LP RP(new对象或者函数 newNode())
compound_statement ->
LC RC
| LC block_item_list RC
block_item_list ->
block_item
| block_item_list block_item
```

```
block_item ->
declaration_list
statement
expression SEMI
statement ->
selection_statement | iteration_statement | jump_statement | compound_statement
selection_statement ->
IF LP expression RP statement
| IF LP expression RP statement ELSE statement
| SWITCH LP expression RP statement
| labeled_statement
iteration_statement ->
WHILE LP expression RP statement
| DO statement WHILE LP expression RP SEMI
| LP SEMI SEMI RP statement
| FOR LP init_declarator_list SEMI SEMI RP statement
FOR LP type_specifier init_declarator_list SEMI SEMI RP statement
FOR LP init_declarator_list SEMI expression SEMI RP statement
FOR LP type_specifier init_declarator_list SEMI expression SEMI RP statement
| FOR LP init_declarator_list SEMI SEMI expression RP statement
| FOR LP type_specifier init_declarator_list SEMI SEMI expression RP statement
FOR LP init_declarator_list SEMI expression SEMI expression RP statement
FOR LP type_specifier init_declarator_list SEMI expression SEMI expression RP statement
jump_statement -> GOTO value SEMI
| CONTINUE SEMI
| BREAK SEMI
```

```
| RETURN SEMI
| RETURN expression SEMI
labeled_statement -> IDENTIFIER SEMICOLON statement
| CASE value SEMICOLON statement
| DEFAULT SEMICOLON statement
(谓词类似)
expression ->
basic_expression
| expression COMMA basic_expression
basic_expression ->
value
| IDENTIFIER
| UNARYOP basic_expression
| basic_expression op basic_expression
value ->
IDENTIFIER
| TRUE
| FALSE
| CONSTANT_INT
| CONSTANT_DOUBLE
SUB CONSTANT_INT
| SUB CONSTANT_DOUBLE
| VALUE("字符串")
```

type_specifier ->

| ASSIGNOP