1.program -> declaration\_list //总程序

2.declaration\_list -> declaration\_list declaration | declaration //声明列表

3.declaration -> var\_declaration | fun\_declaration //声明  
4.var-declaration → type-specifier ID  | type-specifier ID[NUM];   
5.type-specifier → int | void

6.fun-declaration → type-specifier ID(params) compound-stmt

7.params → param-list | void    
8.param-list → param-list , param | param    
9.param → type-specifier ID |type-specifier ID[]    
10. compound-stmt → { local-declarations statement-list }  
11.local-declarations → local-declarations var-declaration | empty    
12.statement-list → statement-list statement | empty    
13.statement → expression-stmt  | compound-stmt  | selection-stmt  | iteration-stmt  | return-stmt    
14.expression-stmt → expression; |  ;   
15.selection-stmt → if (expression) statement  | if (expression) statement else statement

16.iteration-stmt → while (expression) statement    
17.return-stmt → return; | return expression    
18.expression → var=expression | simple-expression    
19.var→ ID | ID[expression]

20.simple-expression → additive-expression relop additive-expression  |additive-expression    
21.relop → <= | < | > | >= | == | !=  
22.additive-expression → additive-expression addop term | term   
23.addop → + | -    
24.term → term mulop factor | factor    
25.mulop → \* | /

26.factor → (expression) | var | call | NUM    
27.call → ID(args)    
28.args → arg-list | empty    
29.arg-list → arg-list,expression | expression