```
BNF
1. program → declaration-list
2. declaration-list → declaration-list declaration | declaration
3. declaration → var-declaration | fun-declaration
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 \rightarrow param-list | void
8. param-list → param-list , param | param
9. param → type-specifier ID | type-specifier ID []
10. compound-stmt \rightarrow { 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 \rightarrow var = expression | simple-expression
19. var → ID | ID [ expression ]
20. simple-expression — additive-expression relop additive-expression | additive-expression
21. relop \rightarrow <= | < | > | >= | == | !=
22. additive-expression → additive-expression addop term | term
23. addop \rightarrow + | -
24. term → term mulop factor | factor
25. mulop \rightarrow * | /
26. factor → ( expression) | var | call | NUM
27. call \rightarrow ID ( args )
28. args → arg-list | empty
29. arg-list → arg-list , expression | expression
EBNF
1. program → declaration-list
2. declaration-list → declaration { declaration }
3. declaration → type-specifier ID [; | [NUM]; | ( params ) compound-stmt ]
4. type-specifier → int | void
5. params \rightarrow param { , param } | void
6. param → type-specifier ID [ [ ] ]
7. compound-stmt → { local-declarations statement-list }
8. local-declarations → { declaration }
9. statement-list → { expression ; | compound-stmt | selection-stmt | iteration-stmt | return-stmt }
10. selection-stmt → if ( expression ) statement-list [ else statement-list ]
11. iteration-stmt → while ( expression ) statement-list
12. return-stmt → return [ additive-expression ];
13. expression → ID [ [expression]] = expression | additive-expression [ relop additive-expression]
14. relop \rightarrow <= |<|>|>=|==|!=
15. additive-expression → term { addop term }
16. addop \rightarrow + | -
17. term → factor { mulop factor }
18. mulop \rightarrow * | /
19. factor → (expression) | ID [ [expression]] | ID (args) | NUM
20. args → [ expression { , expression } ]
```