

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 → param-list
void
8. param-list → param-list |
param / param
9. param → type-specifier ID
type-specifier ID]
10. Compound-stmt → { local-declarations statements - 1,5+3 }
11. compound-stmt → { local-declarations
statements - list }
12. statements-list → statement / -list
statement / empty
13. statement → expression-stmt /
Compound-stmt / selection-stmt /
iteration-stmt / return-stmt
14. expression-stmt →
if (expression) statement /

- if (expression) statement else
Statement
16. Iteration - Stmt \rightarrow expression^{0/0}
17. return - Stmt \rightarrow return ;
return expression;
18. expression \rightarrow var = expression;
19. simple-expression
var \rightarrow ID | ID [expression]
20. Simple-expression \rightarrow additive-
expression
Addop additive-expression
1. additive-expression
21. relop \rightarrow ~~=~~ | < | > | >= | == | !=
22. additive-expression \rightarrow additive-
expression addop term / term
23. addop \rightarrow + | -
24. term \rightarrow term multop factor / factor
25. multop \rightarrow * | /
26. factor \rightarrow (expression) / var /
call / NUM
27. call \rightarrow ID (Args)
28. args \rightarrow arg-list / empty
29. arg-list \rightarrow expression / expression