// 允许以'//'开头的注释行或空行

// 规则行格式为: ID. (空) 归约名称 (空) -> (空) 组分名称

// 规则从零开始

1. sp -> program DOLLAR
2. program -> funcDef program
3. program -> mainFunc
4. type -> INT
5. type -> DOUBLE
6. type -> STRING
7. type -> BOOL
8. operator -> PLUS
9. operator -> MINUS
10. operator -> MULTI
11. operator -> DIVIDE
12. constValue -> CONST\_REAL
13. constValue -> CONST\_INT
14. constValue -> CONST\_STRING
15. constValue -> CONST\_TRUE
16. constValue -> CONST\_FALSE
17. arithmExpr -> expression operator expression
18. assignExpr -> IDENTIFIER ASSIGN expression
19. expression -> arithmExpr
20. expression -> assignExpr
21. expression -> funcCall
22. expression -> constValue
23. expression -> IDENTIFIER
24. body -> LBRACE statmList RBRACE
25. condition -> LPAREN expression RPAREN
26. exprStatm -> expression SEMICOLON
27. defineStatm -> type IDENTIFIER SEMICOLON
28. assighStatm -> assignExpr SEMICOLON
29. ifElseStatm -> ifStatm
30. ifElseStatm -> ifStatm elseStatm
31. ifStatm -> IF condition body
32. elseStatm -> ELSE ifElseStatm
33. elseStatm -> ELSE body
34. forStatm -> FOR LPAREN statement statement expression RPAREN body
35. whileStatm -> WHILE condition body
36. returnStatm -> RETURN IDENTIFIER SEMICOLON
37. returnStatm -> RETURN SEMICOLON
38. statement -> exprStatm
39. statement -> defineStatm
40. statement -> assighStatm
41. statement -> ifElseStatm
42. statement -> forStatm
43. statement -> whileStatm

// TODO: change returnStatm is statement

1. statement -> returnStatm
2. statmList -> statmList statement
3. statmList -> statement
4. statmList ->

// TODO: IDENTIFIER -> MAIN

1. formalParam -> type IDENTIFIER
2. emptyFormalParamList ->
3. formalParamList -> formalParam COMMA formalParamList
4. formalParamList -> formalParam

// TODO: debug mainFunc extends funcDef 是否完全?

1. mainFunc -> INT MAIN LPAREN emptyFormalParamList RPAREN body
2. funcDef -> type IDENTIFIER LPAREN formalParamList RPAREN body
3. funcDef -> type IDENTIFIER LPAREN emptyFormalParamList RPAREN body
4. funcDef -> mainFunc
5. actualParam -> IDENTIFIER
6. emptyActualParamList ->
7. actualParamList -> actualParam COMMA actualParam
8. actualParamList -> actualParam
9. funcCall -> IDENTIFIER LPAREN actualParamList RPAREN
10. funcCall -> IDENTIFIER LPAREN emptyActualParamList RPAREN