1. program $
2. typeDefinition_s   TK_GLOBAL|TK_FUNCTION|TK_MAIN
3. typeDefinition   TK_VAR
4. fieldDefinition_s   TK_ENDRECORD
5. fieldDefinition   TK_VAR
6. moreField_ID   TK_SEM
7. moreFields   TK_ENDRECORD
8. primitiveDatatype   TK_ID|TK_ID|TK_ARRAYID|TK_MAPID
9. globalStatements   TK_FUNCTION|TK_MAIN
10. globalDeclare   TK_ASSIGN|TK_FUNCTION|TK_MAIN
11. globalAssign   TK_FUNCTION|TK_MAIN|
12. var   TK_SEM
13. otherFunctions   TK_MAIN
14. functions   TK_FUNCTION|TK_MAIN
15. input_par   TK_OUTPUT
16. output_par   TK_VAR|TK_ARRAY|TK_MAP|TK_ASSIGN|TK_WHILE|TK_IF|
    TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE|TK_ENDFUNCTION
17. parameter_list   TK_SQR
18. dataType   TK_ID
19. constructedDatatype   TK_ID
20. remaining_list   TK_SQR
21. mainFunction $
22. stmt_s   TK_ENDMAIN|TK_ENDFUNCTION
23. declaration_s   TK_ASSIGN|TK_WHILE|TK_IF|
    TK_GET|TK_PUT|TK_PUTS|TK_CALL|
    TK_MAPINSERT|TK_MAPREMOVE|TK_ENDMAIN|TK_ENDFUNCTION
24. all_declaration   TK_VAR|TK_ARRAY|TK_MAP| TK_ASSIGN|TK_WHILE|TK_IF|
    TK_GET|TK_PUT|TK_PUTS|TK_CALL|
    TK_MAPINSERT|TK_MAPREMOVE|TK_ENDMAIN|TK_ENDFUNCTION
25. declaration   TK_VAR|TK_ARRAY|TK_MAP| TK_ASSIGN|TK_WHILE|TK_IF|
    TK_GET|TK_PUT|TK_PUTS|TK_CALL|
    TK_MAPINSERT|TK_MAPREMOVE|TK_ENDMAIN|TK_ENDFUNCTION
26. array_declaration   TK_VAR|TK_ARRAY|TK_MAP| TK_ASSIGN|TK_WHILE|TK_IF|
    TK_GET|TK_PUT|TK_PUTS|TK_CALL|
    TK_MAPINSERT|TK_MAPREMOVE|TK_ENDMAIN|TK_ENDFUNCTION
27. map_declaration   TK_VAR|TK_ARRAY|TK_MAP| TK_ASSIGN|TK_WHILE|TK_IF|
    TK_GET|TK_PUT|TK_PUTS|TK_CALL|
    TK_MAPINSERT|TK_MAPREMOVE|TK_ENDMAIN|TK_ENDFUNCTION
28. moreMapID   TK_SEM
29. more_array_IDs   TK_SEM
30. more_IDs   TK_SEM
31. otherStmts   TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE|
    TK_ELSEIF|TK_ELSE|TK_ENDIF
32. stmt   TK_ASSIGN|TK_WHILE|TK_IF|
    TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE|
    TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF

33.	assignmentStmt	TK_ASSIGN|TK_WHILE|TK_IF| TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE| TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF
34.	SingleOrRecOrArrayId	TK_ASSIGNOP
35.	arithmeticExpression	TK_SEM|TK_CL
36.	more_variables	TK_SEM|TK_CL
37.	operator	TK_OP| TK_ID | TK_NUM | TK_RNUM |TK_CHR| TK_ARRAYID|TK_RECORDID|TK_MAPID|TK_SEM|TK_CL
38.	funCallStmt	TK_ASSIGN|TK_WHILE|TK_IF| TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE| TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF
39.	idList	TK_SQR
40.	more_ids	TK_SQR
41.	iterativeStmt	TK_ASSIGN|TK_WHILE|TK_IF| TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE| TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF
42.	conditionalStmt	TK_ASSIGN|TK_WHILE|TK_IF| TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE| TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF
43.	else&elseif	TK_ENDIF
44.	elseifs	TK_ELSE|TK_ENDIF
45.	elseif	TK_ELSEIF|TK_ELSE|TK_ENDIF
46.	else	TK_ENDIF
47.	ioStmt	TK_ASSIGN|TK_WHILE|TK_IF| TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE| TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF
48.	allVar	TK_SEM
49.	numorid	TK_SQR
50.	booleanExpression	TK_CL| TK_LT | TK_LE | TK_EQ |TK_GT | TK_GE | TK_NE| TK_AND | TK_OR| TK_ASSIGN|TK_WHILE|TK_IF| TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE
51.	bExp	TK_CL| TK_LT | TK_LE | TK_EQ |TK_GT | TK_GE | TK_NE| TK_AND | TK_OR| TK_ASSIGN|TK_WHILE|TK_IF| TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE
52.	Op	TK_OP| TK_ID | TK_NUM | TK_RNUM |TK_CHR| TK_ARRAYID|TK_RECORDID|TK_MAPID |TK_NOT
53.	variable	TK_OP| TK_ID | TK_NUM | TK_RNUM |TK_CHR| TK_ARRAYID|TK_RECORDID|TK_MAPID| TK_PLUS | TK_MUL |TK_MINUS|TK_DIV|TK_MOD|TK_SEM|TK_CL| TK_LT | TK_LE | TK_EQ |TK_GT | TK_GE | TK_NE| TK_AND | TK_OR| TK_ASSIGN|TK_WHILE|TK_IF| TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE
54.	logicalOp	TK_OP| TK_ID | TK_NUM | TK_RNUM |TK_CHR| TK_ARRAYID|TK_RECORDID|TK_MAPID |TK_NOT
55.	relationalOp	TK_OP| TK_ID | TK_NUM | TK_RNUM |TK_CHR| TK_ARRAYID|TK_RECORDID|TK_MAPID |TK_NOT
56.	mapStmt	TK_ASSIGN|TK_WHILE|TK_IF|

TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE|
TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF

57. mapAdd   TK_ASSIGN|TK_WHILE|TK_IF|
TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE|
TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF

58. mapDelete   TK_ASSIGN|TK_WHILE|TK_IF|
TK_GET|TK_PUT|TK_PUTS|TK_CALL| TK_MAPINSERT|TK_MAPREMOVE|
TK_ENDMAIN|TK_ENDFUNCTION|TK_ENDWHILE| TK_ELSEIF|TK_ELSE|TK_ENDIF