

Stage 1: First sets, Follow sets
and Modified grammar submission

Group - 10

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Modified Grammar

- 1) $\langle \text{program} \rangle \rightarrow \langle \text{other Functions} \rangle \langle \text{main Function} \rangle$
- 2) $\langle \text{other Functions} \rangle \rightarrow \langle \text{function} \rangle \langle \text{other Functions} \rangle \mid \epsilon$
- 3) $\langle \text{main Function} \rangle \rightarrow \text{TK_MAIN} \langle \text{stmts} \rangle \text{TK_END}$
- 4) $\langle \text{function} \rangle \rightarrow \text{TK_FUNKID} \langle \text{input_par} \rangle \langle \text{output_par} \rangle$
 $\text{TK_SEM} \langle \text{stmts} \rangle \text{TK_END}$
- 5) $\langle \text{stmts} \rangle \rightarrow \langle \text{define type stmts} \rangle \langle \text{type Definitions} \rangle \langle \text{declarations} \rangle$
 $\langle \text{other stmts} \rangle \langle \text{return stmt} \rangle$
- 6) $\langle \text{input_par} \rangle \rightarrow \text{TK_INPUT} \text{TK_PARAMETER} \text{TK_LIST}$
 $\text{TK_SQL} \langle \text{parameter_list} \rangle \text{TK_SOR}$
- 7) $\langle \text{output_par} \rangle \rightarrow \text{TK_OUTPUT} \text{TK_PARAMETER} \text{TK_LIST}$
 $\text{TK_SQL} \langle \text{parameter_list} \rangle \text{TK_SOR} \mid \epsilon$
- 8) $\langle \text{define type stmts} \rangle \rightarrow \langle \text{define type stmt} \rangle \langle \text{define type stmts} \rangle \mid \epsilon$
- 9) $\langle \text{define type stmt} \rangle \rightarrow \text{TK_DEFINETYPE} \langle A \rangle \text{TK_RUID} \text{TK_AS}$
 $\text{TK_RUID} \text{TK_SEM}$
- 10) $\langle \text{type Definitions} \rangle \rightarrow \langle \text{type Definition} \rangle \langle \text{type Definitions} \rangle \mid \epsilon$
- 11) $\langle \text{type Definition} \rangle \rightarrow \text{TK_RECORD} \text{TK_RUID} \langle \text{record Definitions} \rangle$
 $\langle \text{field Definitions} \rangle \text{TK_ENDRECORD} \mid$
 $\text{TK_UNION} \text{TK_RUID} \langle \text{field Definitions} \rangle$
 TK_ENDUNION

12) $\langle \text{declarations} \rangle \rightarrow \langle \text{declaration} \rangle \langle \text{declarations} \rangle \mid \epsilon$

13) $\langle \text{declaration} \rangle \rightarrow \text{TK_TYPE} \langle \text{dataType} \rangle \text{TK_COLON} \text{TK_ID} \\ \langle \text{global-or-not} \rangle \text{TK_SEM}$

14) $\langle \text{other stmts} \rangle \rightarrow \langle \text{stmt} \rangle \langle \text{other stmts} \rangle \mid \epsilon$

15) $\langle \text{stmt} \rangle \rightarrow \langle \text{assignment stmt} \rangle \mid \langle \text{iterative stmt} \rangle \mid \langle \text{conditional stmt} \rangle \mid \\ \langle \text{io stmt} \rangle \mid \langle \text{fun call stmt} \rangle$

16) $\langle \text{return stmt} \rangle \rightarrow \text{TK_RETURN} \langle \text{optional Return} \rangle \text{TK_SEM}$

17) $\langle \text{parameter-list} \rangle \rightarrow \langle \text{dataType} \rangle \text{TK_ID} \langle \text{remaining-list} \rangle$

18) $\langle \text{dataType} \rangle \rightarrow \langle \text{primitive datatype} \rangle \mid \langle \text{constructed datatype} \rangle$

19) $\langle \text{primitive datatype} \rangle \rightarrow \text{TK_INT} \mid \text{TK_REAL}$

20) $\langle \text{constructed datatype} \rangle \rightarrow \text{TK_RECORD} \text{TK_RUID} \mid \text{TK_UNION} \\ \text{TK_RUID}$

21) $\langle \text{remaining-list} \rangle \rightarrow \text{TK_COMMA} \langle \text{parameter-list} \rangle \mid \epsilon$

22) $\langle A \rangle \rightarrow \text{TK_RECORD} \mid \text{TK_UNION}$

23) $\langle \text{record definitions} \rangle \rightarrow \langle \text{record definition} \rangle \langle \text{record definitions} \rangle \mid \epsilon$

24) $\langle \text{record definition} \rangle \rightarrow \text{TK_RECORD} \text{TK_RUID} \langle \text{record definitions} \rangle \\ \langle \text{field definitions} \rangle \text{TK_ENDRECORD}$

25) $\langle \text{field definitions} \rangle \rightarrow \langle \text{field definition} \rangle \langle \text{field definition} \rangle \langle \text{more fields} \rangle$

26) $\langle \text{field definition} \rangle \rightarrow \text{TK_TYPE} \langle \text{dataType} \rangle \text{TK_COLON} \text{TK_FIELDID} \\ \text{TK_SEM}$

27) $\langle \text{more fields} \rangle \rightarrow \langle \text{field definition} \rangle \langle \text{more fields} \rangle \mid \epsilon$

28) $\langle \text{global-or-not} \rangle \rightarrow \text{TK_COLON} \text{TK_GLOBAL} \mid \epsilon$

29) $\langle \text{assignment Stmt} \rangle \rightarrow \langle \text{single Or Rec Id} \rangle \text{ TK-ASSIGNOP } \langle \text{arithmetic Expression} \rangle$
TK-SEM

30) $\langle \text{single Or Rec Id} \rangle \rightarrow \text{TK-ID } \langle \text{single Or Rec Id}' \rangle$

31) $\langle \text{single Or Rec Id}' \rangle \rightarrow \text{TK-DOT } \langle \text{Field Ids} \rangle \mid \epsilon$

32) $\langle \text{Field Ids} \rangle \rightarrow \text{TK-FIELDID } \langle \text{Field Ids}' \rangle$

33) $\langle \text{Field Ids}' \rangle \rightarrow \text{TK-DOT } \langle \text{Field Ids} \rangle \mid \epsilon$

34) $\langle \text{fun Call Stmt} \rangle \rightarrow \langle \text{output Parameters} \rangle \text{ TK-CALL TK-FUNID}$
 $\text{TK-WITH TK-PARAMETERS } \langle \text{input Parameters} \rangle$

35) $\langle \text{output Parameters} \rangle \rightarrow \text{TK-SQL } \langle \text{idList} \rangle \text{ TK-SQR TK-ASSIGNOP } \mid \epsilon$

36) $\langle \text{input Parameters} \rangle \rightarrow \text{TK-SQL } \langle \text{idList} \rangle \text{ TK-SQR}$

37) $\langle \text{iterative Stmt} \rangle \rightarrow \text{TK-WHILE TK-OP } \langle \text{boolean Expression} \rangle \text{ TK-CL}$
 $\langle \text{stmt} \rangle \langle \text{other Stmts} \rangle \text{ TK-ENDWHILE}$

38) $\langle \text{conditional Stmt} \rangle \rightarrow \text{TK-IF TK-OP } \langle \text{boolean Expression} \rangle \text{ TK-CL}$
 $\text{TK-THEN } \langle \text{stmt} \rangle \langle \text{other Stmts} \rangle \langle \text{conditional Stmt}' \rangle$

39) $\langle \text{conditional Stmt}' \rangle \rightarrow \text{TK-ENDIF} \mid \text{TK-ELSE } \langle \text{other Stmts} \rangle \text{ TK-ENDIF}$

40) $\langle \text{io Stmt} \rangle \rightarrow \text{TK-READ TK-OP TK-CL TK-SEM} \mid \text{TK-WRITE}$
 $\text{TK-OP TK-CL TK-SEM}$

41) $\langle \text{arithmetic Expression} \rangle \rightarrow \langle \text{exp without MINUS} \rangle \langle \text{arithmetic Expression}' \rangle$

42) $\langle \text{arithmetic Expression}' \rangle \rightarrow \text{TK-MINUS } \langle \text{exp without MINUS} \rangle$
 $\langle \text{arithmetic Expression}' \rangle \mid \epsilon$

43) $\langle \text{exp without MINUS} \rangle \rightarrow \langle \text{exp without PLUS} \rangle \langle \text{exp without MINUS}' \rangle$

44) $\langle \text{exp without MINUS}' \rangle \rightarrow \text{TK-PLUS } \langle \text{exp without PLUS} \rangle$
 $\langle \text{exp without MINUS}' \rangle \mid \epsilon$

45) $\langle \text{exp without PLUS} \rangle \rightarrow \langle \text{exp without MUL} \rangle \langle \text{exp without PLUS}' \rangle$

46) $\langle \text{exp without PLUS}' \rangle \rightarrow \text{TK_MUL} \langle \text{exp without MUL} \rangle$
 $\langle \text{exp without PLUS}' \rangle \mid \epsilon$

47) $\langle \text{exp without MUL} \rangle \rightarrow \langle \text{exp without DIV} \rangle \langle \text{exp without MUL}' \rangle$

48) $\langle \text{exp without MUL}' \rangle \rightarrow \text{TK_DIV} \langle \text{exp without DIV} \rangle$
 $\langle \text{exp without MUL}' \rangle \mid \epsilon$

49) $\langle \text{exp without DIV} \rangle \rightarrow \text{TK_OP} \langle \text{arithmetic Expression} \rangle \text{TK_CL} \mid$
 $\langle \text{var} \rangle$

50) $\langle \text{boolean Expression} \rangle \rightarrow \text{TK_OP} \langle \text{boolean Expression} \rangle \text{TK_CL}$
 $\langle \text{logical Op} \rangle \text{TK_OP} \langle \text{boolean Expression} \rangle$
 $\text{TK_CL} \mid \langle \text{var} \rangle \langle \text{relational Op} \rangle \langle \text{var} \rangle \mid$
 $\text{TK_NOT} \langle \text{boolean Expression} \rangle$

51) $\langle \text{var} \rangle \rightarrow \text{TK_ID} \mid \text{TK_NUM} \mid \text{TK_RNUM}$

52) $\langle \text{logical Op} \rangle \rightarrow \text{TK_AND} \mid \text{TK_OR}$

53) $\langle \text{relational Op} \rangle \rightarrow \text{TK_LT} \mid \text{TK_LE} \mid \text{TK_EQ} \mid \text{TK_GT} \mid \text{TK_GE} \mid$
 TK_NE

54) $\langle \text{optional Return} \rangle \rightarrow \text{TK_SQL} \langle \text{idlist} \rangle \text{TK_SOR} \mid \epsilon$

55) $\langle \text{idlist} \rangle \rightarrow \text{TK_ID} \langle \text{more-ids} \rangle$

56) $\langle \text{more-ids} \rangle \rightarrow \text{TK_COMMA} \langle \text{idlist} \rangle \mid \epsilon$

First Sets

- 1) $\text{First}(\text{program}) = \{ \text{TK-FUNID}, \text{TK-MAIN} \}$
- 2) $\text{First}(\text{other Functions}) = \{ \text{TK-FUNID}, \epsilon \}$
- 3) $\text{First}(\text{mainFunction}) = \{ \text{TK-MAIN} \}$
- 4) $\text{First}(\text{function}) = \{ \text{TK-FUNID} \}$
- 5) $\text{First}(\text{stmts}) = \{ \text{TK-DEFINETYPE}, \text{TK-RECORD}, \text{TK-UNION}, \text{TK-TYPE}, \text{TK-ID}, \text{TK-WHILE}, \text{TK-IF}, \text{TK-READ}, \text{TK-WRITE}, \text{TK-SQL}, \text{TK-CALL}, \text{TK-RETURN} \}$
- 6) $\text{First}(\text{input-par}) = \{ \text{TK-INPUT} \}$
- 7) $\text{First}(\text{output-par}) = \{ \text{TK-OUTPUT}, \epsilon \}$
- 8) $\text{First}(\text{define type stmts}) = \{ \text{TK-DEFINETYPE}, \epsilon \}$
- 9) $\text{First}(\text{define type stmt}) = \{ \text{TK-DEFINETYPE} \}$
- 10) $\text{First}(\text{type Definitions}) = \{ \text{TK-RECORD}, \text{TK-UNION}, \epsilon \}$
- 11) $\text{First}(\text{type Definition}) = \{ \text{TK-RECORD}, \text{TK-UNION} \}$
- 12) $\text{First}(\text{declarations}) = \{ \text{TK-TYPE}, \epsilon \}$
- 13) $\text{First}(\text{declaration}) = \{ \text{TK-TYPE} \}$
- 14) $\text{First}(\text{other stmts}) = \{ \text{TK-ID}, \text{TK-WHILE}, \text{TK-IF}, \text{TK-READ}, \text{TK-WRITE}, \text{TK-SQL}, \text{TK-CALL}, \epsilon \}$
- 15) $\text{First}(\text{stmt}) = \{ \text{TK-ID}, \text{TK-WHILE}, \text{TK-IF}, \text{TK-READ}, \text{TK-WRITE}, \text{TK-SQL}, \text{TK-CALL} \}$
- 16) $\text{First}(\text{return stmt}) = \{ \text{TK-RETURN} \}$
- 17) $\text{First}(\text{parameter-list}) = \{ \text{TK-INT}, \text{TK-REAL}, \text{TK-RECORD}, \text{TK-UNION} \}$

- 18) $\text{First}(\text{data Type}) = \{ \text{TK-INT}, \text{TK-REAL}, \text{TK-RECORD}, \text{TK-UNION} \}$
- 19) $\text{First}(\text{primitive Data type}) = \{ \text{TK-INT}, \text{TK-REAL} \}$
- 20) $\text{First}(\text{constructed Data type}) = \{ \text{TK-RECORD}, \text{TK-UNION} \}$
- 21) $\text{First}(\text{remaining-list}) = \{ \text{TK-COMMA}, \epsilon \}$
- 22) $\text{First}(A) = \{ \text{TK-RECORD}, \text{TK-UNION} \}$
- 23) $\text{First}(\text{recordDefinitions}) = \{ \text{TK-RECORD}, \epsilon \}$
- 24) $\text{First}(\text{recordDefinition}) = \{ \text{TK-RECORD} \}$
- 25) $\text{First}(\text{fieldDefinitions}) = \{ \text{TK-TYPE} \}$
- 26) $\text{First}(\text{field Definition}) = \{ \text{TK-TYPE} \}$
- 27) $\text{First}(\text{moreFields}) = \{ \text{TK-TYPE}, \epsilon \}$
- 28) $\text{First}(\text{global-or-not}) = \{ \text{TK-COLON}, \epsilon \}$
- 29) $\text{First}(\text{assignment Stmt}) = \{ \text{TK-ID} \}$
- 30) $\text{First}(\text{single Or RecId}) = \{ \text{TK-ID} \}$
- 31) $\text{First}(\text{single Or RecId}') = \{ \text{TK-DOT}, \epsilon \}$
- 32) $\text{First}(\text{FieldIds}) = \{ \text{TK-FIELDID} \}$
- 33) $\text{First}(\text{FieldIds}') = \{ \text{TK-DOT}, \epsilon \}$
- 34) $\text{First}(\text{funCall Stmt}) = \{ \text{TK-SQL}, \text{TK-CALL} \}$
- 35) $\text{First}(\text{outputParameters}) = \{ \text{TK-SQL}, \epsilon \}$
- 36) $\text{First}(\text{inputParameters}) = \{ \text{TK-SQL} \}$
- 37) $\text{First}(\text{iterative Stmt}) = \{ \text{TK-WHILE} \}$
- 38) $\text{First}(\text{conditional Stmt}) = \{ \text{TK-IF} \}$
- 39) $\text{First}(\text{conditional Stmt}') = \{ \text{TK-ENDIF}, \text{TK-ELSE} \}$
- 40) $\text{First}(\text{io Stmt}) = \{ \text{TK-READ}, \text{TK-WRITE} \}$

- 41) $\text{First}(\text{arithmetic Expression}) = \{ \text{TK-OP}, \text{TK-ID}, \text{TK-NUM}, \text{TK-RNUM} \}$
- 42) $\text{First}(\text{arithmetic Expression}') = \{ \text{TK-MINUS}, \epsilon \}$
- 43) $\text{First}(\text{exp without MINUS}) = \{ \text{TK-OP}, \text{TK-ID}, \text{TK-NUM}, \text{TK-RNUM} \}$
- 44) $\text{First}(\text{exp without MINUS}') = \{ \text{TK-PLUS}, \epsilon \}$
- 45) $\text{First}(\text{exp without PLUS}) = \{ \text{TK-OP}, \text{TK-ID}, \text{TK-NUM}, \text{TK-RNUM} \}$
- 46) $\text{First}(\text{exp without PLUS}') = \{ \text{TK-MUL}, \epsilon \}$
- 47) $\text{First}(\text{exp without MUL}) = \{ \text{TK-OP}, \text{TK-ID}, \text{TK-NUM}, \text{TK-RNUM} \}$
- 48) $\text{First}(\text{exp without MUL}') = \{ \text{TK-DIV}, \epsilon \}$
- 49) $\text{First}(\text{exp without DIV}) = \{ \text{TK-OP}, \text{TK-ID}, \text{TK-NUM}, \text{TK-RNUM} \}$
- 50) $\text{First}(\text{boolean Expression}) = \{ \text{TK-OP}, \text{TK-NOT}, \text{TK-ID}, \text{TK-NUM}, \text{TK-RNUM} \}$
- 51) $\text{First}(\text{var}) = \{ \text{TK-ID}, \text{TK-NUM}, \text{TK-RNUM} \}$
- 52) $\text{First}(\text{logical Op}) = \{ \text{TK-AND}, \text{TK-OR} \}$
- 53) $\text{First}(\text{relational Op}) = \{ \text{TK-LT}, \text{TK-LE}, \text{TK-EQ}, \text{TK-GT}, \text{TK-GE}, \text{TK-NE} \}$
- 54) $\text{First}(\text{optional Return}) = \{ \text{TK-SQL}, \epsilon \}$
- 55) $\text{First}(\text{idList}) = \{ \text{TK-ID} \}$
- 56) $\text{First}(\text{more-ids}) = \{ \text{TK-COMMA}, \epsilon \}$

Follow Sets

- 1) Follow(program) = { \$ }
- 2) Follow(other Functions) = { TK-MAIN }
- 3) Follow(mainFunction) = { \$ }
- 4) Follow(function) = { TK-FUNID, TK-MAIN }
- 5) Follow(stmts) = { TK-END }
- 6) Follow(input-par) = { TK-OUTPUT, TK-SEM }
- 7) Follow(output-par) = { TK-SEM }
- 8) Follow(define type stmts) = { TK-RECORD, TK-UNION, TK-TYPE, TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN }
- 9) Follow(define type stmt) = { TK-RECORD, TK-UNION, TK-TYPE, TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-DEFINE TYPE }
- 10) Follow(type Definitions) = { TK-TYPE, TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN }
- 11) Follow(type Definition) = { TK-RECORD, TK-UNION, TK-TYPE, TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN }
- 12) Follow(declarations) = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN }
- 13) Follow(declaration) = { TK-TYPE, TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN }

- 14) Follow (other stmts) = { TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }
- 15) Follow (stmt) = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }
- 16) Follow (return stmt) = { TK-END }
- 17) Follow (parameter-list) = { TK-SQR }
- 18) Follow (dataType) = { TK-ID, TK-COLON }
- 19) Follow (primitive dataType) = { TK-ID, TK-COLON }
- 20) Follow (constructed dataType) = { TK-ID, TK-COLON }
- 21) Follow (remaining-list) = { TK-SQR }
- 22) Follow (A) = { TK-RUID }
- 23) Follow (record Definitions) = { TK-TYPE }
- 24) Follow (record Definition) = { TK-RECORD, TK-TYPE }
- 25) Follow (field Definitions) = { TK-ENDRECORD, TK-ENDUNION }
- 26) Follow (field Definition) = { TK-TYPE, TK-ENDRECORD, TK-ENDUNION }
- 27) Follow (more Fields) = { TK-ENDRECORD, TK-ENDUNION }
- 28) Follow (global-or-not) = { TK-SEM }
- 29) Follow (assignment stmt) = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }
- 30) Follow (single Or RecId) = { TK-ASSIGNOP }
- 31) Follow (single Or RecId') = { TK-ASSIGNOP }
- 32) Follow (fieldIds) = { TK-ASSIGNOP }
- 33) Follow (fieldIds') = { TK-ASSIGNOP }

34) Follow (funcall Stmt) = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }

35) Follow (output Parameters) = { TK-CALL }

36) Follow (input Parameters) = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }

37) Follow (iterative Stmt) = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }

38) Follow (conditional Stmt) = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }

39) Follow (conditional Stmt') = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }

40) Follow (io Stmt) = { TK-ID, TK-WHILE, TK-IF, TK-READ, TK-WRITE, TK-SQL, TK-CALL, TK-RETURN, TK-ENDIF, TK-ENDWHILE, TK-ELSE }

41) Follow (arithmetic Expression) = { TK-SEM, TK-CL }

42) Follow (arithmetic Expression') = { TK-SEM, TK-CL }

43) Follow (exp without MINUS) = { TK-MINUS, TK-SEM, TK-CL }

44) Follow (exp without MINUS') = { TK-MINUS, TK-SEM, TK-CL }

45) Follow (exp without PLUS) = { TK-PLUS, TK-MINUS, TK-SEM, TK-CL }

46) Follow (exp without PLUS') = { TK-PLUS, TK-MINUS, TK-SEM, TK-CL }

47) Follow (exp without MUL) = { TK-MUL, TK-PLUS, TK-MINUS,
TK-SEM, TK-CL }

48) Follow (exp without MUL') = { TK-MUL, TK-PLUS, TK-MINUS,
TK-SEM, TK-CL }

49) Follow (exp without DIV) = { TK-DIV, TK-MUL, TK-PLUS, TK-MINUS,
TK-SEM, TK-CL }

50) Follow (boolean Expression) = { TK-CL }

51) Follow (var) = { TK-LT, TK-LE, TK-EQ, TK-GT, TK-GE,
TK-NE, TK-CL, TK-DIV, TK-MUL, TK-PLUS,
TK-MINUS, TK-SEM }

52) Follow (logical Op) = { TK-OP }

53) Follow (relational Op) = { TK-ID, TK-NUM, TK-RNUM }

54) Follow (optional Return) = { TK-SEM }

55) Follow (id list) = { TK-SQR }

56) Follow (more-ids) = { TK-SQR }

Assumptions

- 1) All defintype statements are at the starting of functions
- 2) If there exists a nested record, it is defined at the starting of parent record