

GRAMMER	FIRST()	FOLLOW()
<program>	TK_FUNID, TK_MAIN	\$
<main function>	TK_MAIN	\$
<other functions>	TK_FUNID, epsilon	TK_MAIN
<function>	TK_FUNID	TK_FUNID, TK_MAIN
<input_par>	TK_INPUT	TK_OUTPUT, TK_SEM
<output_par>	TK_OUTPUT, epsilon	TK_SEM
<parameter_list>	TK_INT, TK_REAL, TK_RECORD, TK_UNION, TK_RUID	TK_SQR
<dataType>	TK_INT, TK_REAL, TK_RECORD, TK_UNION, TK_RUID	TK_ID
<primitiveDatatype>	TK_INT, TK_REAL	TK_ID
<constructedDatatype>	TK_RECORD, TK_UNION, TK_RUID	TK_ID
<remaining_list>	TK_COMMA, epsilon	TK_SQR
<stmts>	TK_RECORD, TK_UNION, TK_DEFINETYPE, TK_TYPE, TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN	TK_END
<typeDefinitions>	TK_RECORD, TK_UNION, TK_DEFINETYPE, epsilon	TK_TYPE, TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN
<typeDefinition>	TK_RECORD, TK_UNION	TK_RECORD, TK_UNION, TK_DEFINETYPE, TK_TYPE, TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN
<fieldDefinitions>	TK_TYPE	TK_ENDRECORD, TK_ENDUNION
<fieldDefinition>	TK_TYPE	TK_TYPE, TK_ENDRECORD, TK_ENDUNION
<moreFields>	TK_TYPE, epsilon	TK_ENDRECORD, TK_ENDUNION
<declarations>	TK_TYPE, epsilon	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN
<delaration>	TK_TYPE	TK_TYPE, TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN
<global_or_not>	TK_COLON, epsilon	TK_SEM
<otherStmts>	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, epsilon	TK_RETURN, TK_ENDIF, TK_ELSE, TK_ENDWHILE
<stmt>	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN, TK_ENDIF, TK_ELSE, TK_ENDWHILE
<assignmentStmt>	TK_ID	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN, TK_ENDIF, TK_ELSE, TK_ENDWHILE
<singleOrRecId>	TK_ID	TK_ASSIGNOP, TK_CL, TK_SEM, TK_CL, TK_ADD, TK_SUB, TK_MUL, TK_DIV, TK_LT, TK_LE, TK_EQ, TK_GT, TK_GE, TK_NE
	TK_DOT, epsilon	TK_ASSIGNOP, TK_CL, TK_SEM, TK_CL, TK_ADD, TK_SUB, TK_MUL, TK_DIV, TK_LT, TK_LE, TK_EQ, TK_GT, TK_GE, TK_NE
<funCallStmt>	TK_SQL, TK_CALL	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN, TK_ENDIF, TK_ELSE, TK_ENDWHILE
<outputParameters>	TK_SQL, epsilon	TK_CALL
<inputParameters>	TK_SQL	TK_SEM
<iterativeStmt>	TK_WHILE	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN, TK_ENDIF, TK_ELSE, TK_ENDWHILE
<conditionalStmt>	TK_IF	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN, TK_ENDIF, TK_ELSE, TK_ENDWHILE
<ioStmt>	TK_READ, TK_WRITE	TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN, TK_ENDIF, TK_ELSE, TK_ENDWHILE
<arithmeticExpression>	TK_OP, TK_ID, TK_NUM, TK_RNUM	TK_SEM, TK_CL
<addORsub>	TK_OP, TK_ID, TK_NUM, TK_RNUM	TK_SEM, TK_CL
<mulORdiv>	TK_OP, TK_ID, TK_NUM, TK_RNUM	TK_PLUS, TK_MINUS, TK_SEM, TK_CL
<brackets>	TK_OP, TK_ID, TK_NUM, TK_RNUM	TK_MUL, TK_DIV, TK_PLUS, TK_MINUS, TK_SEM, TK_CL
<MULDIV>	TK_MUL, TK_DIV	TK_OP, TK_ID, TK_NUM, TK_RNUM
<ADDSUB>	TK_PLUS, TK_MINUS	TK_OP, TK_ID, TK_NUM, TK_RNUM
<booleanExpression>	TK_NOT, TK_OP, TK_ID, TK_NUM, TK_RNUM	TK_CL
<var>	TK_ID, TK_NUM, TK_RNUM	TK_CL, TK_SEM, TK_CL, TK_ADD, TK_SUB, TK_MUL, TK_DIV, TK_LT, TK_LE, TK_EQ, TK_GT, TK_GE, TK_NE
<logicalOp>	TK_AND, TK_OR	TK_OP
<relationalOp>	TK_LT, TK_LE, TK_EQ, TK_GT, TK_GE, TK_NE	TK_ID, TK_NUM, TK_RNUM
<returnStmt>	TK_RETURN	TK_END
<optionalReturn>	TK_SQL, epsilon	TK_SEM
<idList>	TK_ID	TK_SQR
<more_ids>	TK_COMMA, epsilon	TK_SQR
<definetypesmt>	TK_DEFINETYPE	TK_RECORD, TK_UNION, TK_DEFINETYPE, TK_TYPE, TK_ID, TK_WHILE, TK_IF, TK_READ, TK_WRITE, TK_SQL, TK_CALL, TK_RETURN
<A>	TK_RECORD, TK_UNION	TK_RUID