|  |  |  |
| --- | --- | --- |
| **Non-Terminal** | **FIRST** | **FOLLOW** |
| Prog | KW\_PROGRAM | KW\_EOF |
| Block | KW\_CONST  KW\_TYPE  KW\_VAR  KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN | SB\_PERIOD  SB\_SEMICOLON |
| Block2 | KW\_TYPE  KW\_VAR  KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN | SB\_PERIOD  SB\_SEMICOLON |
| Block3 | KW\_VAR  KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN | SB\_PERIOD  SB\_SEMICOLON |
| Block4 | KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN | SB\_PERIOD  SB\_SEMICOLON |
| Block5 | KW\_BEGIN | SB\_PERIOD  SB\_SEMICOLON |
| ConstDecls | TK\_IDENT (Fresh)  ε | KW\_TYPE  KW\_VAR  KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN |
| ConstDecl | TK\_IDENT (Fresh) | TK\_IDENT (Fresh)  KW\_TYPE  KW\_VAR  KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN |
| TypeDecls | TK\_IDENT (Fresh)  ε | KW\_VAR  KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN |
| TypeDecl | TK\_IDENT (Fresh) | TK\_IDENT (Fresh)  KW\_VAR  KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN |
| VarDecls | TK\_IDENT (Fresh)  ε | KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN |
| VarDecl | TK\_IDENT (Fresh) | TK\_IDENT (Fresh)  KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN |
| SubDecls | KW\_FUNCTION  KW\_PROCEDURE  ε | KW\_BEGIN |
| FuncDecl | KW\_FUNCTION | KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN |
| ProcDecl | KW\_PROCEDURE | KW\_FUNCTION  KW\_PROCEDURE  KW\_BEGIN |
| UnsignedConstant | TK\_NUMBER  TK\_IDENT (Constant)  TK\_CHAR | SB\_TIMES  SB\_SLASH  SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN |
| Constant | SB\_PLUS  SB\_MINUS  TK\_CHAR  TK\_IDENT (Constant)  TK\_NUMBER | SB\_SEMICOLON |
| Constant2 | TK\_IDENT (Constant)  TK\_NUMBER | SB\_SEMICOLON |
| Statements | SB\_SEMICOLON  TK\_IDENT  KW\_CALL  KW\_BEGIN  KW\_IF  KW\_WHILE  KW\_FOR  ε | KW\_END |
| Statements2 | SB\_SEMICOLON  ε | KW\_END |
| Statement | TK\_IDENT (Variable)  KW\_CALL  KW\_BEGIN  KW\_IF  KW\_WHILE  KW\_FOR  ε | SB\_SEMICOLON  KW\_ELSE  KW\_END |
| AssignSt | TK\_IDENT (Variable) | SB\_SEMICOLON  KW\_ELSE  KW\_END |
| CallSt | KW\_CALL | SB\_SEMICOLON  KW\_ELSE  KW\_END |
| GroupSt | KW\_BEGIN | SB\_SEMICOLON  KW\_ELSE  KW\_END |
| IfSt | KW\_IF | SB\_SEMICOLON  KW\_ELSE  KW\_END |
| WhiteSt | KW\_WHILE | SB\_SEMICOLON  KW\_ELSE  KW\_END |
| ForSt | KW\_FOR | SB\_SEMICOLON  KW\_ELSE  KW\_END |
| ElseSt | KW\_ELSE  ε | SB\_SEMICOLON  KW\_ELSE  KW\_END |
| Arguments | SB\_LPAR  ε | SB\_TIMES  SB\_SLASH  SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN |
| Arguments2 | SB\_COMMA  ε | SB\_RPAR |
| Condition | SB\_PLUS  SB\_MINUS  TK\_NUMBER  TK\_CHAR  TK\_IDENT (Constant)  TK\_IDENT (Variable)  TK\_IDENT (Function)  SB\_LPAR | KW\_THEN  KW\_DO |
| Condition2 | SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT | KW\_THEN  KW\_DO |
| Expression | SB\_PLUS  SB\_MINUS  TK\_NUMBER  TK\_CHAR  TK\_IDENT (Constant)  TK\_IDENT (Variable)  TK\_IDENT (Function)  SB\_LPAR | KW\_TO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE |
| Expression2 | TK\_NUMBER  TK\_CHAR  TK\_IDENT (Constant)  TK\_IDENT (Variable)  TK\_IDENT (Function)  SB\_LPAR | KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN |
| Expression3 | SB\_PLUS  SB\_MINUS  ε | KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN |
| Term | TK\_NUMBER  TK\_CHAR  TK\_IDENT (Constant)  TK\_IDENT (Variable)  TK\_IDENT (Function)  SB\_LPAR | SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN |
| Term2 | SB\_TIMES  SB\_SLASH  ε | SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN |
| Factor | TK\_NUMBER  TK\_CHAR  TK\_IDENT (Constant)  TK\_IDENT (Variable)  TK\_IDENT (Function)  SB\_LPAR | SB\_TIMES  SB\_SLASH  SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN |
| Variable | TK\_IDENT (Variable) | SB\_TIMES  SB\_SLASH  SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN  SB\_ASSIGN |
| FunctionApplication | TK\_IDENT (Function) | SB\_TIMES  SB\_SLASH  SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN |
| Indexes | SB\_LSEL  ε | SB\_TIMES  SB\_SLASH  SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN  SB\_ASSIGN  SB\_LSEL |
| Index | SB\_LSEL | SB\_TIMES  SB\_SLASH  SB\_PLUS  SB\_MINUS  KW\_TO  KW\_DO  SB\_RPAR  SB\_COMMA  SB\_EQ  SB\_NEQ  SB\_LE  SB\_LT  SB\_GE  SB\_GT  SB\_RSEL  SB\_SEMICOLON  KW\_END  KW\_ELSE  KW\_THEN  SB\_ASSIGN  SB\_LSEL |
| Params | SB\_LPAR  ε | SB\_COLON  SB\_SEMICOLON |
| Params2 | SB\_COMMA  ε | SB\_RPAR |
| Param | Ident (Fresh)  KW\_VAR | SB\_COMMA  SB\_RPAR |