

simpleTypeName IDENTIFIER

routineTypeName ROUTINE OF typeName RETURNS typeName

genericTypeName simpleTypeName OF typeName

ifStatement ifBlock elseBlock elseBlock

ifBlock 'if' expression ':' NEWLINE statementList END IF

elseifBlock 'else if' expression ':' NEWLINE statementList END IF ELSE

elseBlock 'else' ':' NEWLINE statementList END ELSE

loopStatement 'while' expression ':' NEWLINE statementList END WHILE

assignmentStatement assignNewVariables assignExistingVariable

assignNewVariables varDeclaration '=' expression

assignExistingVariable call '=' expression

routineCall IDENTIFIER '(' argumentList ')' indexModifier ':' call

indexModifier '(' argumentList ')'

argumentList expression ',' expression NEWLINE expression

relOp EQUALS NOT\_EQUALS LESS\_THAN LESS\_EQUALS GREATER\_THAN GREATER\_EQUALS

addOp PLUS MINUS

boolOp AND OR

expression comparison boolOp expression

comparison addition relOp expression

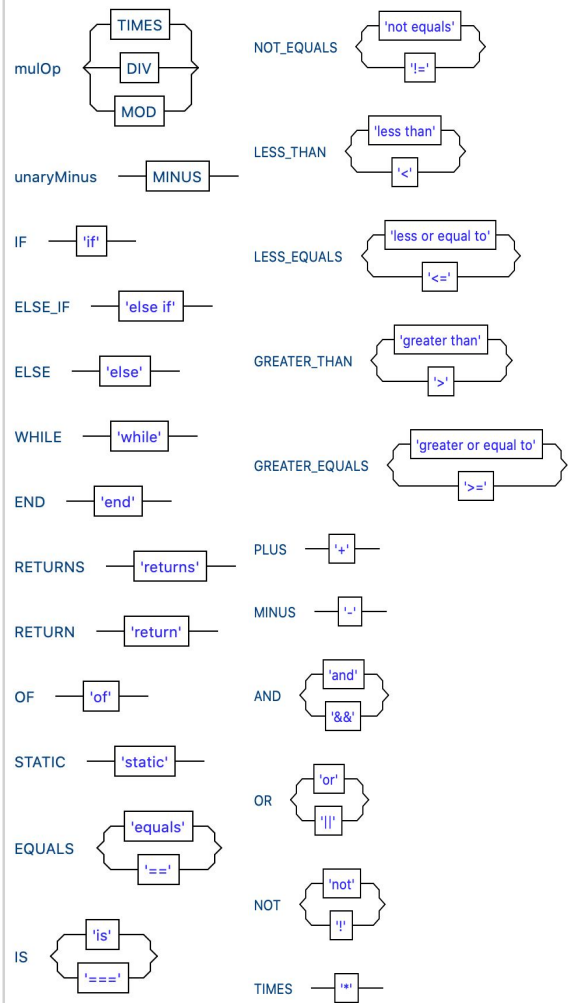
addition multiplication addOp expression

multiplication term mulOp expression

term INTEGER REAL TRUE FALSE STRING NOT term unaryMinus term call '(' expression ')'

call identifierCall routineCall

identifierCall IDENTIFIER indexModifier ':' call



DIV — `'/'` —

MOD { `'mod'`  
`'%'` }

ROUTINE — `'routine'` —

INTEGER { `[0-9]` }

REAL {  
 INTEGER `'.'` INTEGER  
 INTEGER `'e'` `'E'` { `'+'` `'-'` } INTEGER  
 INTEGER `'.'` INTEGER `'e'` `'E'` { `'+'` `'-'` } INTEGER  
}

TRUE — `'true'` —

FALSE — `'false'` —

IDENTIFIER — `[a-zA-Z_]` { `[a-zA-Z0-9_]` }

SINGLE\_QUOTE — `'` —

DOUBLE\_QUOTE — `"` —

STRING {  
 SINGLE\_QUOTE { NOT\_SINGLE\_QUOTE } SINGLE\_QUOTE  
 DOUBLE\_QUOTE { NOT\_DOUBLE\_QUOTE } DOUBLE\_QUOTE  
}

NOT\_SINGLE\_QUOTE — `'\n'` { } —

NOT\_DOUBLE\_QUOTE — `'\"'` { } —

NEWLINE { `'\r'` `'\n'` }

WS { `[ \t]` }

COMMENT — `'#'` { `'\n'` `[ \t]` }