|  |  |  |
| --- | --- | --- |
| **NON-TERMINAL** | **FIRST SET** | **FOLLOW SET** |
| <program> | {DECLARE, DEF, DRIVERDEF} | {$} |
| <moduleDeclarations> | {DECLARE, ε} | {DEF, DRIVERDEF} |
| <moduleDeclaration> | {DECLARE} | {DEF, DRIVERDEF, DECLARE} |
| <otherModules> | {DEF, ε} | {DRIVERDEF, $} |
| <driverModule> | {DRIVERDEF} | {DEF, $} |
| <module> | {DEF} | {DEF, DRIVERDEF, $} |
| <ret> | {RETURNS, ε} | {START} |
| <input\_plist> | {ID} | {SQBC} |
| <R1> | {COMMA} | {SQBC} |
| <output\_plist> | {ID} | {SQBC} |
| <R2> | {COMMA, ε} | {SQBC} |
| <dataType> | {INTEGER, REAL, BOOLEAN, ARRAY} | {COMMA} |
| <type> | {INTEGER, REAL, BOOLEAN} | {COMMA, SQBC} |
| <moduleDef> | {START} | {DEF, DRIVERDEF, $} |
| <statements> | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, ε} | {END, BREAK} |
| <statement> | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <ioStmt> | {GET\_VALUE, PRINT} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <var\_new> | {ID, NUM, RUM, TRUE, FALSE} | {BC} |
| <var> | {ID, NUM, RNUM} | {MUL, DIV, PLUS, MINUS, BC, LT, LE, GT, GE, EQ, NE, AND, OR, SEMICOL} |
| <whichId> | {SQBO, ε} | {MUL, DIV, PLUS, MINUS, BC, LT, LE, GT, GE, EQ, NE, AND, OR, SEMICOL} |
| <simpleStmt> | {ID, SQBO, USE} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <assignmentStmt> | {ID} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <whichStmt> | {ASSIGNOP, SQBO} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <lvalueIDStmt> | {ASSIGNOP} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <lvalueARRStmt> | {SQBO} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <index> | {NUM, ID} | {SQBC} |
| <moduleReuseStmt> | {SQBO, USE} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <optional> | {SQBO, ε} | {USE} |
| <idList> | {ID} | {SEMICOL, SQBC, COLON} |
| <R3> | {COMMA, ε} | {SEMICOL, SQBC, COLON} |
| <expression> | {ID, NUM, RNUM, BO, MINUS} | {SEMICOL} |
| <arithmeticOrBooleanExpr> | {ID, NUM, RNUM, BO} | {SEMICOL, BC} |
| <R4> | {AND, OR, ε} | {SEMICOL, BC} |
| <AnyTerm> | {ID, NUM, RNUM} | {AND, OR, SEMICOL, BC} |
| <R5> | {LT, LE, GT, GE, EQ, NE, ε} | {AND, OR, SEMICOL, BC} |
| <arithmeticExpr> | {ID, NUM, RNUM} | {BC, LT, LE, GT, GE, EQ, NE, AND, OR, SEMICOL} |
| <R6> | {PLUS, MINUS, ε} | {BC, LT, LE, GT, GE, EQ, NE, AND, OR, SEMICOL} |
| <term> | {ID, NUM, RNUM} | {PLUS, MINUS, BC, LT, LE, GT, GE, EQ, NE, AND, OR, SEMICOL} |
| <R7> | {MUL, DIV, ε} | {PLUS, MINUS, BC, LT, LE, GT, GE, EQ, NE, AND, OR, SEMICOL} |
| <factor> | {ID, NUM, RNUM} | {MUL, DIV, PLUS, MINUS, BC, LT, LE, GT, GE, EQ, NE, AND, OR, SEMICOL} |
| <op1> | {PLUS, MINUS} | {ID, NUM, RNUM} |
| <op2> | {MUL, DIV} | {ID, NUM, RNUM} |
| <logicalOp> | {AND, OR} | {ID, NUM, RNUM} |
| <relationalOp> | {LT, LE, GT, GE, EQ, NE} | {ID, NUM, RNUM} |
| <declareStmt> | {DECLARE} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <conditionalStmt> | {SWITCH} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <caseStmts> | {CASE} | {DEFAULT, END} |
| <R8> | {CASE, ε} | {DEFAULT, END} |
| <value> | {NUM, TRUE, FALSE} | {COLON} |
| <default> | {DEFAULT, ε} | {END} |
| <iterativeStmt> | {FOR, WHILE} | {GET\_VALUE, PRINT, ID, SQBO, USE, DECLARE, SWITCH, FOR, WHILE, END, BREAK} |
| <range> | {NUM} | {SQBC, BC} |