附录1 词法生成规则

lex_rule.txt

NFA S ε A REAL+
NFA S . C
NFA S char IDENTIFIER
NFA S e/E IDENTIFIER
NFA S i IDENTIFIER
NFA S ' K
NFA K i K
NFA K d+ K
NFA K e/E K
NFA K char K
NFA K 0 K
NFA K ε K
NFA K ' STRING
NFA IDENTIFIER char IDENTIFIER
NFA IDENTIFIER i IDENTIFIER
NFA IDENTIFIER e/E IDENTIFIER
NFA IDENTIFIER d+ IDENTIFIER
NFA IDENTIFIER 0 IDENTIFIER
NFA A 0 INT
NFA A d+ B
NFA B d+ B
NFA B 0 B
NFA B ε INT
NFA C 0 DOUBLE
NFA C d+ DOUBLE
NFA INT . DOUBLE
NFA DOUBLE d+ DOUBLE
NFA DOUBLE 0 DOUBLE
NFA INT e/E D
NFA DOUBLE e/E D
NFA D +/- F
NFA D ε F
NFA F d+ DOUBLE
NFA F 0 DOUBLE
NFA INT +/- REAL+
NFA DOUBLE +/- REAL+
NFA REAL+ 0 I_INT
NFA REAL+ d+ H
NFA REAL+ . G
NFA REAL+ i COMPLEX
NFA H 0 H
NFA H d+ H
NFA H ε I_INT
NFA I_INT . I_DOUBLE

NFA G d+ I_DOUBLE
NFA G 0 I_DOUBLE
NFA I_DOUBLE d+ I_DOUBLE
NFA I_DOUBLE 0 I_DOUBLE
NFA I_INT e/E I
NFA I_DOUBLE e/E I
NFA I +/- J
NFA I ε J
NFA J d+ I_DOUBLE
NFA J 0 I_DOUBLE
NFA I_INT i COMPLEX
NFA I_DOUBLE i COMPLEX
Keyword   for
Keyword   while
Keyword   if
Keyword   else
Keyword   return
Keyword   break
Keyword   continue
Keyword   def
Keyword   class
Keyword   int
Keyword   double
Keyword   dict
Keyword   list
Keyword   tuple
AssignmentOperator +=
AssignmentOperator -=
AssignmentOperator *=
AssignmentOperator /=
AssignmentOperator //=
AssignmentOperator %=
AssignmentOperator =
BinaryOperator   and
BinaryOperator   or
BinaryOperator   xor
BinaryOperator   ==
BinaryOperator   **
BinaryOperator   +
BinaryOperator   -
BinaryOperator   *
BinaryOperator   /
BinaryOperator   //
BinaryOperator   %
BinaryOperator   in
BinaryOperator   <
BinaryOperator   >
BinaryOperator   <=
BinaryOperator   >=
UnaryOperator !

UnaryOperator not
Delimiter   .
Delimiter   :
Delimiter   (
Delimiter   )
Delimiter   {
Delimiter   }
Delimiter   [
Delimiter   ]
Delimiter   ,
DFAType   INT
DFAType   DOUBLE
DFAType   COMPLEX
DFAType   IDENTIFIER
DFAType   STRING
Expressionrule S identifier   A
Expressionrule S keyword A
Expressionrule S assignment_operator Expr1
Expressionrule S binary_operator   Expr1
Expressionrule S unary_operator   Expr1
Expressionrule S delimiter   Expr1
Expressionrule S ε Expr1
Expressionrule A assignment_operator Expr1
Expressionrule A binary_operator   Expr1
Expressionrule A unary_operator   Expr1
Expressionrule A delimiter   Expr1
Expressionrule Expr1 datatype   Expr2
Expressionrule Expr1 assignment_operator Expr1
Expressionrule Expr1 binary_operator   Expr1
Expressionrule Expr1 unary_operator   Expr1
Expressionrule Expr1 delimiter   Expr1
Expressionrule Expr1 identifier   Expr2
Expressionrule Expr2 ε A