关键字：一字一种

标识符：一种，由字母、数字、下划线组成且首字母不能为数字

常数：整型，浮点数型，布尔型

运算符：一字一种

界符：一符一种

其他：错误符

|  |  |  |
| --- | --- | --- |
| 单词符号 | 种别编码 | 助忆符 |
| while | 1 | $WHILE |
| void | 2 | $VOID |
| break | 3 | $BREAK |
| continue | 4 | $CONTINUE |
| if | 5 | $IF |
| else | 6 | $ELSE |
| float | 7 | $FLOAT |
| int | 8 | $INT |
| return | 9 | $RETURN |
| 标识符 | 10 | $ID |
| 整型 | 11 | $INTNUMBER |
| 浮点数型 | 12 | $FLOATNUMBER |
| 布尔型 | 13 | $BOOLNUMBER |
| + | 14 | $ADD |
| - | 15 | $SUB |
| \* | 16 | $MUL |
| / | 17 | $DIV |
| = | 18 | $ASSIGN |
| >= | 19 | $EQUALORBIG |
| == | 20 | $EQUAL |
| <= | 21 | $EQUALORSMALL |
| ( | 22 | $LPAR |
| ) | 23 | $RPAR |
| { | 24 | $LSPAR |
| } | 25 | $RSPAR |
| ; | 26 | $END |

WHILE ::= while

BREAK ::= break

CONTINUE ::= continue

IF ::= if

ELSE ::= else

FLOAT ::= float

INT ::= int

RETURN ::= return

VOID ::= void

UPLETTER ::= A|B|C|D|E|F|G|H|I|J|K|L|M|N|O|P|Q|R|S|T|U|V|W|X|Y|Z

LOWLETTER ::= a|b|c|d|e|f|g|h|i|j|k|l|m|n|o|p|q|r|s|t|u|v|w|x|y|z

DIGIT ::= 0|1|2|3|4|5|6|7|8|9

BOOLNUMBER ::= false|true

POINT ::= .

ADD ::= +

SUB ::= -

MUL ::= \*

DIV ::= /

ASSGIN ::= =

EQUAL ::= ==

EQUALORSMALL ::= <=

EQUALORBIG ::= >=

END ::= ;

LPAR ::= (

RPAR ::= )

LSPAR ::= {

RSPAR ::= }

SIGN ::= ADD|SUB

LETTER ::= UPLETTER|LOWLETTER

BOUNDARYSYMBOL ::= LPAR|RPAR|LSPAR|RSPAR|END

OPERATOR ::= ADD|SUB|MUL|DIV|ASSIGN|EQUAL|EQUALORSMALL|EQUALORBIG

KEYWORD ::= WHILE|BREAK|CONTINUE|IF|ELSE|FLOAT|INT|RETURN|VOID

IDENTIFIER ::= <LETTER|\_>{LETTER|DIGIT|\_}

INTNUMBER ::=SIGN {DIGIT}

FLOATNUMBER ::= INTNUMBER{POINT}{DIGIT}