

```
%{
#include "y.tab.h"
%}

%option noyywrap

LITERAMAJ      [A-Z]
LITERA         [A-Za-z]
CIFRA          [0-9]
CIFRA_NONZERO  [1-9]
IDENTIFIER     ({LITERAMAJ}|_)( {LITERAMAJ}| {CIFRA}|_)*
NUMAR          [-]?{CIFRA_NONZERO}{CIFRA}*|0
COMMENT        \$.*$
WHITESPACE     [\n\t\r ]
STRING         \"({LITERA}|{CIFRA}|_)*\"
BOOLEAN        true|false
CHARACTER      \"({LITERA}|{CIFRA}|_)\
ARRAY          NUM_ARRAY_CONST | BUL_ARRAY_CONST | STRING_ARRAY_CONST |
LIT_ARRAY_CONST
NUM_ARRAY_CONST    "[" {NUMAR}(, {NUMAR}) "]"
BUL_ARRAY_CONST    "[" {BOOLEAN}(, {BOOLEAN}) "]"
STRING_ARRAY_CONST  "[" {STRING}(, {STRING}) "]"
LIT_ARRAY_CONST    "[" {CHARACTER}(, {CHARACTER}) "]"
CONSTANT          {NUMAR}|{BOOLEAN}|{STRING}|{CHARACTER}
```

```
%%
```

```
{WHITESPACE} {}
{COMMENT} {}
"nu" { return NOT; }
"+" { return PLUS; }
"-" { return MINUS; }
"*" { return MULT; }
"/" { return DIV; }
%" { return MOD; }
"ee" { return EQUAL; }
"nee" { return NOT_EQUAL; }
"ss" { return LT; }
"se" { return LE; }
"bb" { return GT; }
"be" { return GE; }
"<-" { return ASSIGNMENT; }
"si" { return AND; }
"sau" { return OR; }
"{" { return L_BRACKET; }
"}" { return R_BRACKET; }
 "(" { return L_PARENTHESIS; }
 ")" { return R_PARENTHESIS; }
 "[" { return L_SQUARE_BRACKET; }
 "]" { return R_SQUARE_BRACKET; }
"," { return COMMA; }
"'" { return APOSTROPHE; }
":" { return COLON; }
"." { return PERIOD; }
"st" { return STOP; }
"dc" { return IF; }
"alfe" { return ELSE; }
"cat" { return WHILE; }
"pt" { return FOR; }
```

```
"print" { return PRINT; }
"cit" { return READ; }
"num" { return INT; }
"bul" { return BOOL; }
"string" { return STRING; }
"lit" { return CHAR; }
"array" { return ARRAY; }
{BOOLEAN} { return BOOL_CONSTANT; }
{IDENTIFIER} { return IDENTIFIER; }
{NUMAR} { return INT_CONSTANT; }
{CHARACTER} { return CHAR_CONSTANT; }
{STRING} { return STRING_CONSTANT; }
. { printf("UNKNOWN "); ECHO; printf("\n");exit(1); }
```

%%