Proj2 lex file

```
%{
  #include "y.tab.h"
   int currLine = 1, currPos = 1;
DIGIT
         [0-9]
UNDERSCORE [_]
LETTER [a-zA-Z]
%%
"function"
                {currPos += yyleng; return FUNCTION;}
"beginparams"
                {currPos += yyleng; return BEGIN_PARAMS;}
"endparams"
                {currPos += yyleng; return END_PARAMS;}
"beginlocals"
                {currPos += yyleng; return BEGIN_LOCALS;}
"endlocals"
                {currPos += yyleng; return END_LOCALS;}
"beginbody"
                {currPos += yyleng; return BEGIN_BODY;}
                {currPos += yyleng; return END_BODY;}
"endbody"
"integer"
                {currPos += yyleng; return INTEGER;}
"array"
                {currPos += yyleng; return ARRAY;}
"of"
                {currPos += yyleng; return OF;}
"if"
                {currPos += yyleng; return IF;}
"then"
                {currPos += yyleng; return THEN;}
"endif"
                {currPos += yyleng; return ENDIF;}
"else"
                {currPos += yyleng; return ELSE;}
"while"
                {currPos += yyleng; return WHILE;}
"do"
                {currPos += yyleng; return DO;}
"for"
                {currPos += yyleng; return FOR;}
"beginloop"
                {currPos += yyleng; return BEGINLOOP;}
"endloop"
                {currPos += yyleng; return ENDLOOP;}
"continue"
                {currPos += yyleng; return CONTINUE;}
"read"
                {currPos += yyleng; return READ;}
"write"
                {currPos += yyleng; return WRITE;}
"and"
                {currPos += yyleng; return AND;}
"or"
                {currPos += yyleng; return OR;}
"not"
                {currPos += yyleng; return NOT;}
"true"
                {currPos += yyleng; return TRUE;}
"false"
                {currPos += yyleng; return FALSE;}
"return"
                {currPos += yyleng; return RETURN;}
H _ H
                {currPos += yyleng; return SUB;}
"+"
                {currPos += yyleng; return ADD;}
                {currPos += yyleng; return MULT;}
"/"
                {currPos += yyleng; return DIV;}
"%"
                {currPos += yyleng; return MOD;}
"=="
                {currPos += yyleng; return EQ;}
"<>"
                {currPos += yyleng; return NEQ;}
```

Proj2 lex file 1

```
"<"
                {currPos += yyleng; return LT;}
">"
                {currPos += yyleng; return GT;}
"<="
                {currPos += yyleng; return LTE;}
">="
                {currPos += yyleng; return GTE;}
";"
                {currPos += yyleng; return SEMICOLON;}
":"
                {currPos += yyleng; return COLON;}
","
                {currPos += yyleng; return COMMA;}
"("
                {currPos += yyleng; return L_PAREN;}
")"
                {currPos += yyleng; return R_PAREN;}
"["
                {currPos += yyleng; return L_SQUARE_BRACKET;}
"]"
                {currPos += yyleng; return R_SQUARE_BRACKET;}
":="
                {currPos += yyleng; return ASSIGN;}
               {yylval.ival=atoi(strdup(yytext)); currPos += yyleng; return NUMBER;}
{DIGIT}+
{LETTER}+(({DIGIT}|{UNDERSCORE}|{LETTER})*({DIGIT}|{LETTER})+)* {yylval.cval=strdup(yy
text); currPos += yyleng; return IDENT;}
[ \t]+
               {/* ignore spaces */ currPos += yyleng;}
"\n"
               {currLine++; currPos = 1;}
"##".*
                 {currLine++; currPos = 1;}
                \{printf("Error \ at \ line \ \%d, \ column \ \%d: \ unrecognized \ symbol \ \"\%s\"\n", \ currLiii) \} 
ne, currPos, yytext);}
{DIGIT}+({DIGIT}|{UNDERSCORE}|{LETTER})*
                                                       {printf("Error at line %d, column %
d: identifier \"%s\" must begin with a letter n", currLine, currPos, yytext);}
{LETTER}+({DIGIT}|{UNDERSCORE}|{LETTER})*{UNDERSCORE}+
                                                                    {printf("Error at line
%d, column %d: identifier \"%s\" cannot end with an underscore \n", currLine, currPos, yy
text);}
%%
int main(int argc, char ** argv)
   if(argc >= 2)
      yyin = fopen(argv[1], "r");
      if(yyin == NULL)
      {
  }
  else
      yyin = stdin;
   }
}
*/
```

Proj2 lex file 2