Jeffrey Lansford
Lab 2.1
January 25, 2019

We are task to change the provide program to count lines of input. What I changed is that I added an countLine variable and incremate that variable when it sees a new line character to count lines. In the error message, I added to it that it would print the current value of countLine to display what line the error is at.

Code:

```
      /* simple lex program which removes comments from a source
         program
         The main key is that a variable "comment" is set when the start of a comment
         is seen and then unset when the ending set is seen.  It is possible to have
         two starts closed by on end.

         Shaun Cooper
         January 2015

      */
         /*
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         In this lab we had to change an existing program that removes
   comments from a file by adding a count for newline so when the error comes up, it can
   display which line the error is on. The LEX routine requires an input file so it can
   read and process. The output is the input file with comments not being printed.
   */

      int comment = 0;
      int debug=1;  /* prints out debug statements if desired */
      int lineCount = 1; /* starts count at one since we start at Line One */
%%
"/*"     {
         if (comment && debug) fprintf(stderr,
                  " >>>>>>>> line %d: Possible Nested comment <<<<<<<<<<\n", lineCount);
         comment = 1;
         /* added lineCount to display line numbers */
         }

"*/"     {
       if (!comment) printf("%s",yytext); /*print out if it is not in a comment */
          comment = 0;
         }

"\n"     { lineCount++;
```

```
    if (!comment) printf("%s", yytext);/* increments line count when we see a new line
    and prints it*/}

.      { if (!comment) printf("%s",yytext); }

%%

int yywrap(void)
{return 1;}

main()
{
  yylex();

}
```

Makefile:

```
# Jeffrey Lansford
# Lab2
# January 23, 2019
all:
        # creates C program to run with a input file
        lex lab2remove.l
        gcc -o lab2 lex.yy.c
```