

Christian McGovern, The problem for this lab was printing out the error and the line number on the .tst file where the error occurred.

I made about 3 lines of code changes to the original program, First I created a int to count the lines, then I created a new rule to increment the int whenever there is a new line: `\n {printf("\n",linenum++);}`

I also had to print a `\n` in order to refresh the buffer.

I added the linenum to the error printf() and printed out the line number for the error.

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

*/

int comment = 0;

int debug=0; /* prints out debug statements if desired */

/*
* Christian McGovern
* Lab2.1 1/22/18
*
*/

int linenum = 1;//new variable for counting lines

%%

\n          {printf("\n",linenum++);} //rule to increment linenum on each line

"/*"      {
```

```

        if (comment) fprintf(stderr,
                                ">>>>>>> line %d: Possible Nested comment <<<<<<<<<\n", linenum); //printing
linenum and removed debug

        comment = 1;
    }
    /*/"    {
        if (!comment) printf("%s",yytext); /*print out if it is not in a comment */
        comment = 0;
    }
    { if (!comment) printf("%s",yytext);}
%%

int yywrap(void)
{
    return 1;
}

main()
{
    yylex();
}

```

mcgovern@Christian: /mnt/c/Users/Christian/Desktop/Google_Drive/Course-Work/NMSU-Compilers/lab2.1

```

    see how it works
*/
mcgovern@Christian:/mnt/c/Users/Christian/Desktop/Google_Drive/Course-Work/NMSU-Compilers/lab2.1$ clear
mcgovern@Christian:/mnt/c/Users/Christian/Desktop/Google_Drive/Course-Work/NMSU-Compilers/lab2.1$ ./lab2remove < comment.txt

    and this represents lines of code.
>>>>>>> line 4: Possible Nested comment <<<<<<<<<
>>>>>>> line 5: Possible Nested comment <<<<<<<<<
    /*/ second termination

    see how it works
*/
mcgovern@Christian:/mnt/c/Users/Christian/Desktop/Google_Drive/Course-Work/NMSU-Compilers/lab2.1$ _

```