

Collin Gros
02/03/2020

CS-370 LAB 2.1

Enhance every error message to include a line number.

I added a variable to count the number of lines in the input file, changed the fprintf statement indicating a nested comment to include the line number, and incremented the line count every time "\n" is encountered.

MODIFIED LEX FILE

```
%{  
/*  
    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  
  
    collin gros  
    02/03/2020  
  
    i added a variable to count the number of lines in the input file,  
    changed the fprintf statement at line 28 to print the line number,  
    and incremented the line count every time "\n" is encountered.  
  
*/  
int comment = 0;  
int line_count = 1;  
int debug=1; /* prints out debug statements if desired */  
%}  
  
%%  
  
"/*" {  
    if (comment && debug) {  
        fprintf(stderr, " >>>>>>> line %d: Possible Nested comment <<<<<<<<<\n",  
            line_count);  
    }  
  
    comment = 1;
```

```

    }

    "*" {
        comment = 0;
    }

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

    "\n" {
        line_count++;
    }

%%

int yywrap(void)
{ return 1;
}

int main()
{
    yylex();
}

```

MAKEFILE

```

# collin gros
# 02/03/2020
#

```

```

# makefile for lab2.1

```

```

all: lab2.1

```

```

# compile lex-generated code after running lex

```

```

lab2.1: lex.yy.c

```

```

    gcc -o run lex.yy.c

```

```

# run lex on lex code

```

```

lex.yy.c: lab2remove.l

```

```

    lex lab2remove.l

```

```

# get rid of all the generated crap

```

clean:

```
rm run  
rm lex.*
```

OUTPUT



```
Activities Mon Feb 3, 10:45:13  
cgros@turing:~/Documents/cdh-github/Beaglebone/new/src  
File Edit View Search Terminal Help  
cgros@turing:~/Downloads/school/cp/lab2.1> make clean  
rm run  
rm lex.*  
cgros@turing:~/Downloads/school/cp/lab2.1> make  
lex lab2remove.l  
gcc -o run lex.yy.c  
cgros@turing:~/Downloads/school/cp/lab2.1> ./run < comment.tst  
>>>>>> line 4: Possible Nested comment <<<<<<<<<  
>>>>>> line 5: Possible Nested comment <<<<<<<<<  
cgros@turing:~/Downloads/school/cp/lab2.1>
```