How to write your lex programs.

1.Get into emacs with Unix.

2.Name your program something.l (or anything_you_like.l). That final character is a lower-case L.

3.In emacs, type meta-x (escape followed by x) **makefile-mode**.

4.To compile your lex file: **flex prog.l** . This produces a C file called prog.yy.c.

5.To link it by itself: **gcc -o myProgram -ll prog.yy.c** .

gcc is the GNU C compiler. -o myProgram means "name the output of the compiler 'myProgram.'" -ll means link in the lex library.

6.Run it by typing **./myProgram** .

Example Lex program

```
%{
#include<stdio.h>
#include<string.h>
int i = 0;
%}

/* Rules Section*/
%%
([a-zA-Z0-9])*    {i++;} /* Rule for counting
                                        number of words*/

"\n" {printf("%d\n", i); i = 0;}
%%

int yywrap(void){}

int main()
{
        // The function that starts the analysis
        yylex();

        return 0;
}
```