Program to count the number of characters, words, spaces and lines in a given   input file.

```
%{
#include <stdio.h>
int wc=0,cc=0,lc=0,bc=0;
char infile[25];
%}
word [a-zA-Z0-9]+
eol [\n]
%%
{word}  {wc++; cc+=yyleng;}
{eol}    {lc++; cc++;}
[" "]     {bc++; cc++;}
[\t]      {bc+=8; cc++;}
.          {cc++;}
%%
int yywrap() { }
int main()
{
        printf("\nRead the input file\n");
        scanf("%s",infile);
        yyin=fopen(infile,"r");
        yylex();
        printf("Number of characters = %d\n",cc);
        printf("Number of words = %d\n",wc);
        printf("Number of spaces = %d\n",bc);
        printf("Number of lines = %d\n",lc);
        fclose(yyin);
         return 0;

}
```