```
/* cs152-fall08 */
   /* A flex scanner specification for the calculator language */
   /* Written by Dennis Jeffrey */
%{
   int currLine = 1, currPos = 1;
%}
         [0-9]
DIGIT
%%
" _ "
               {printf("MINUS\n"); currPos += yyleng;}
"+"
               {printf("PLUS\n"); currPos += yyleng;}
" * "
               {printf("MULT\n"); currPos += yyleng;}
"/"
               {printf("DIV\n"); currPos += yyleng;}
"="
                {printf("EQUAL\n"); currPos += yyleng;}
               {printf("L_PAREN\n"); currPos += yyleng;}
"("
" ) "
               {printf("R_PAREN\n"); currPos += yyleng;}
{DIGIT}+
               {printf("NUMBER %s\n", yytext); currPos += yyleng;}
               {/* ignore spaces */ currPos += yyleng;}
[\t]+
"\n"
               {currLine++; currPos = 1;}
               {printf("Error at line %d, column %d: unrecognized symbol \"%s\"\n",
currLine, currPos, yytext); exit(0);}
%%
int main(int argc, char ** argv)
   if(argc >= 2)
      yyin = fopen(argv[1], "r");
      if(yyin == NULL)
         yyin = stdin;
      }
   }
   else
   {
      yyin = stdin;
   yylex();
}
```