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31. Write a LEX program to identify and count positive and negative numbers.
%{
#include <stdio.h>
int positiveCount = 0;
int negativeCount = 0;
%}
%%
[+-]?[0-9]+ {
           if(yytext[0] == '+') {
             positiveCount++;
           } else if(yytext[0] == '-') {
             negativeCount++;
           }
           printf("Number: %s\n", yytext);
        }
         ; /* Ignore any other characters */
%%
```

int main() {

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char input[4096]; // Adjust the size based on your needs
  printf("Enter your statement:\n");
  if (fgets(input, sizeof(input), stdin) == NULL) {
    fprintf(stderr, "Error reading input.\n");
    return 1;
  }
  // Set the input buffer
  yy_scan_string(input);
  // Start parsing
  yylex();
  // Print counts
  printf("Positive Numbers Count: %d\n", positiveCount);
  printf("Negative Numbers Count: %d\n", negativeCount);
  return 0;
int yywrap() { return 1; }
```

}

