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38. Write a LEX program to count the frequency of the given word in a given sentence.
%{
#include <stdio.h>
#include <string.h>
int word_count = 0;
char target_word[100]; // Maximum word length, adjust as needed
%}
%%
[a-zA-Z]+
          {
          if (strcmp(yytext, target word) == 0) {
             word_count++;
          }
        }
        ; /* Ignore any other characters */
%%
int main() {
  char input[4096]; // Adjust the size based on your needs
  printf("Enter a sentence:\n");
  if (fgets(input, sizeof(input), stdin) == NULL) {
    fprintf(stderr, "Error reading input.\n");
    return 1;
  }
  // Remove newline character if present
  for (int i = 0; input[i] != '\0'; i++) {
```

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if (input[i] == '\n') {
      input[i] = '0';
      break;
    }
  }
  printf("Enter the word to count frequency:\n");
  scanf("%s", target_word);
 // Set the input buffer
  yy_scan_string(input);
 // Start parsing
  yylex();
  // Print the frequency of the target word
  printf("Frequency of '%s': %d\n", target_word, word_count);
  return 0;
int yywrap() { return 1; }
```

}

