

37. Write a LEX program to find the length of the longest word.

```
%{
#include <stdio.h>

int max_length = 0;
int current_length = 0;
%}

%%
[a-zA-Z]+    {
    current_length = yyleng;
    if (current_length > max_length) {
        max_length = current_length;
    }
}
.           ; /* 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++) {
        if (input[i] == '\n') {
```

```

        input[i] = '\0';
        break;
    }
}

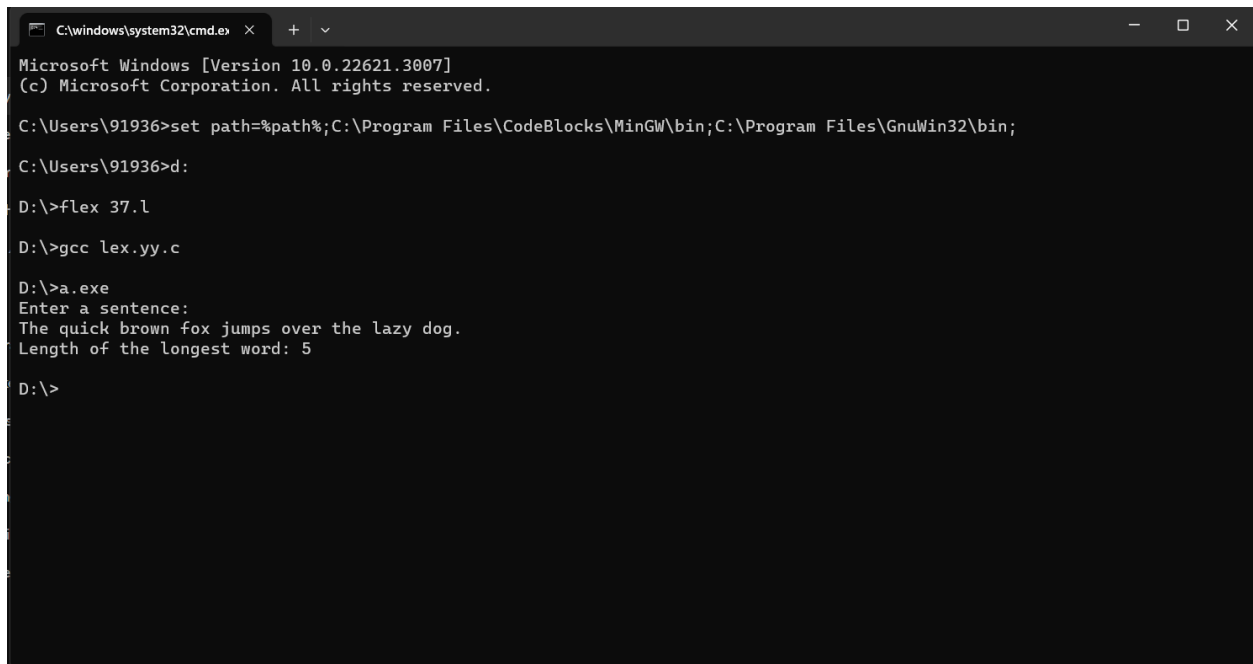
// Set the input buffer
yy_scan_string(input);

// Start parsing
yylex();

// Print the length of the longest word
printf("Length of the longest word: %d\n", max_length);

return 0;
}
int yywrap() { return 1; }

```



```

C:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.22621.3007]
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C:\Users\91936>set path=%path%;C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\GnuWin32\bin;
C:\Users\91936>d:
D:\>flex 37.1
D:\>gcc lex.yy.c
D:\>a.exe
Enter a sentence:
The quick brown fox jumps over the lazy dog.
Length of the longest word: 5
D:\>

```