



Write a C Program that takes a string and returns the current data and time with microsecond resolution

Here's a simple C program that takes a string as input and returns the current date and time with microsecond resolution:

C

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#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/time.h>
#include <time.h>

void getCurrentTime(char *input) {
    struct timeval tv;
    struct tm *tm_info;
    char buffer[64];

    gettimeofday(&tv, NULL);
    tm_info = localtime(&tv.tv_sec);

    strftime(buffer, sizeof(buffer), "%Y-%m-%d %H:%M:%S", tm_info);
    printf("Input string: %s\n", input);
    printf("Current date and time: %s.%06ld\n", buffer, tv.tv_usec);
}

int main() {
    char input[256];
    printf("Enter a string: ");
    fgets(input, sizeof(input), stdin);
    input[strcspn(input, "\n")] = '\0'; // Remove the newline character

    getCurrentTime(input);
}
```



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