

Bonus Homework (+4)

- Write a procedure called `Str_nextWord` that scans a string for the first occurrence of a certain delimiter character and replaces the delimiter with a null byte.
- There are two input parameters: a pointer to the string, and the delimiter character.
- After the call, if the delimiter was found, the Zero flag is set and EAX contains the offset of the next character beyond the delimiter.
- Otherwise, the Zero flag is clear.
- For example, we can pass the address of target and a comma as the delimiter.

```

Str_nextWord PROTO,
    pString:PTR BYTE, ; pointer to string
    delimiter:BYTE ; delimiter to find

.data
testStr BYTE "ABC\DE\FGHIJK\LM",0

.code
main PROC
    call Clrscr
    mov  edx, OFFSET testStr ; display string
    call WriteString
    call Crlf

```

```

; Loop through the string, replace each delimiter, and
; display the remaining string.

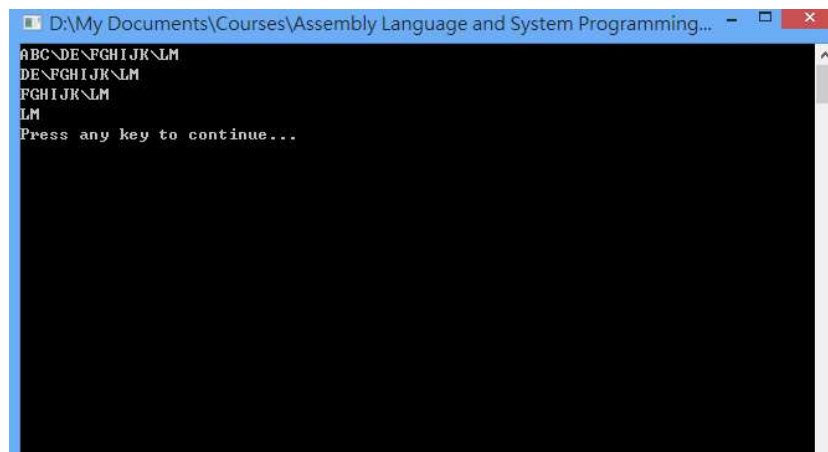
        mov     esi, OFFSET testStr

L1:      INVOKE Str_nextword, esi, "\" ; look for delimiter
        jnz     Exit_prog ;quit if not found
        mov     _____ ; point to next substring
        mov     _____
        call WriteString ; display remainder of string
        call Crlf
        jmp     L1

Exit_prog:
        call WaitMsg
        exit
main ENDP

```

Required Output



A screenshot of a Windows command prompt window. The title bar at the top reads "D:\My Documents\Courses\Assembly Language and System Programming...". The command prompt displays the following text:

```
ABC\DE\FGHIJK\LM
DE\FGHIJK\LM
FGHIJK\LM
LM
Press any key to continue...
```