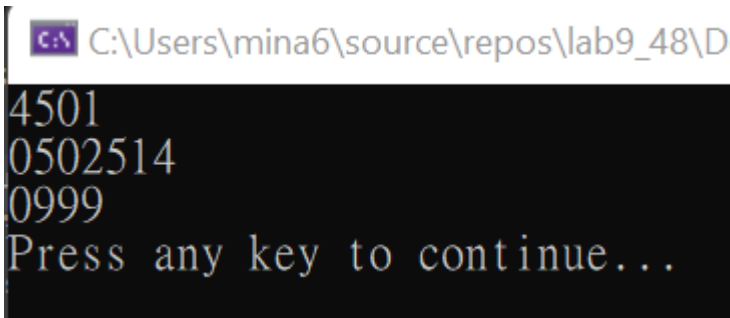


報告標題: lab9\_2, 組別: 48, 姓名學號: 曾千芸109504501 賈子悅110502514

### Screenshots of String Remove:

```
1  INCLUDE Irvine32.inc
2
3  Str_remove PROTO,
4      pStart:PTR byte,
5      nChars:DWORD
6
7  .data
8  target1 BYTE "109504501",0
9  target2 BYTE "110502514",0
10 target3 BYTE "999999999",0
11
12 .code
13
14 main PROC
15     INVOKE Str_remove, OFFSET target1, 5      ; remove five characters from the first string
16     mov edx,OFFSET target1                  ; point to target1
17     call WriteString                         ; display it
18     call CrLf                               ; output a CR/LF
19
20     INVOKE Str_remove, OFFSET target2, 2      ; remove two characters from the second string
21     mov edx,OFFSET target2                  ; point to target2
22     call WriteString                         ; display it
23     call CrLf                               ; output a CR/LF
24
25     INVOKE Str_remove, OFFSET [target2+1], 15 ; remove the characters that is out of range
26     mov edx,OFFSET target2                  ; point to target2
27     call WriteString                         ; display it
28     call CrLf                               ; output a CR/LF
29     call WaitMsg                             ; "Press any key....."
30     exit
31 main ENDP
32
33 Str_remove PROC,
34     pStart:PTR BYTE,                        ; points to first character to delete
35     nChars:DWORD                            ; numbers of characters to delete
36
37     INVOKE Str_length, pStart
38     mov ecx,ecx                             ; store the length of string in ecx as the total number of loop
39     .IF nChars <= ecx                       ; check if remove characters is greater than the length of string
40     sub ecx,nChars                          ; if no, then subtract the number of remove characters
41     .ENDIF
42
43     mov esi,pStart                          ; define the start of copy string
44     add esi,nChars                          ; move the start point to the right place to copy
45     mov edi,pStart                          ; set the destination
46     cld                                    ; scan in forward direction
47     rep movsb                               ; copy doublewords
48     mov BYTE PTR [edi],0                   ; set null bytes
49
50 Exit_proc:
51     ret
52 Str_remove ENDP
53 END main
```



C:\Users\mina6\source\repos\lab9\_48\D

4501  
0502514  
0999  
Press any key to continue...

### main idea:

1. take 109504501 for example, copy 4501 to the position of 1095, then insert null character after 1
2. take 110502514 for example, copy 0502514 to the position of 1105025, then insert null character after 4
- 3.

0502514,14,0

999999999,0

According to the above two operations, take 999999999 for example, copy the last three 999 to the position of 502. Therefore, the final input is 0999

- **Thoughts about lab9:**

In the second question, at first we had trouble setting new beginning of the character and the beginning of the delete position. Thus, when we tried to run the program, it always failed to compile due to the wrong definition of the variables. Thanks to TAs help, we eventually figured out where the problem was and finished the lab.