

# HW9

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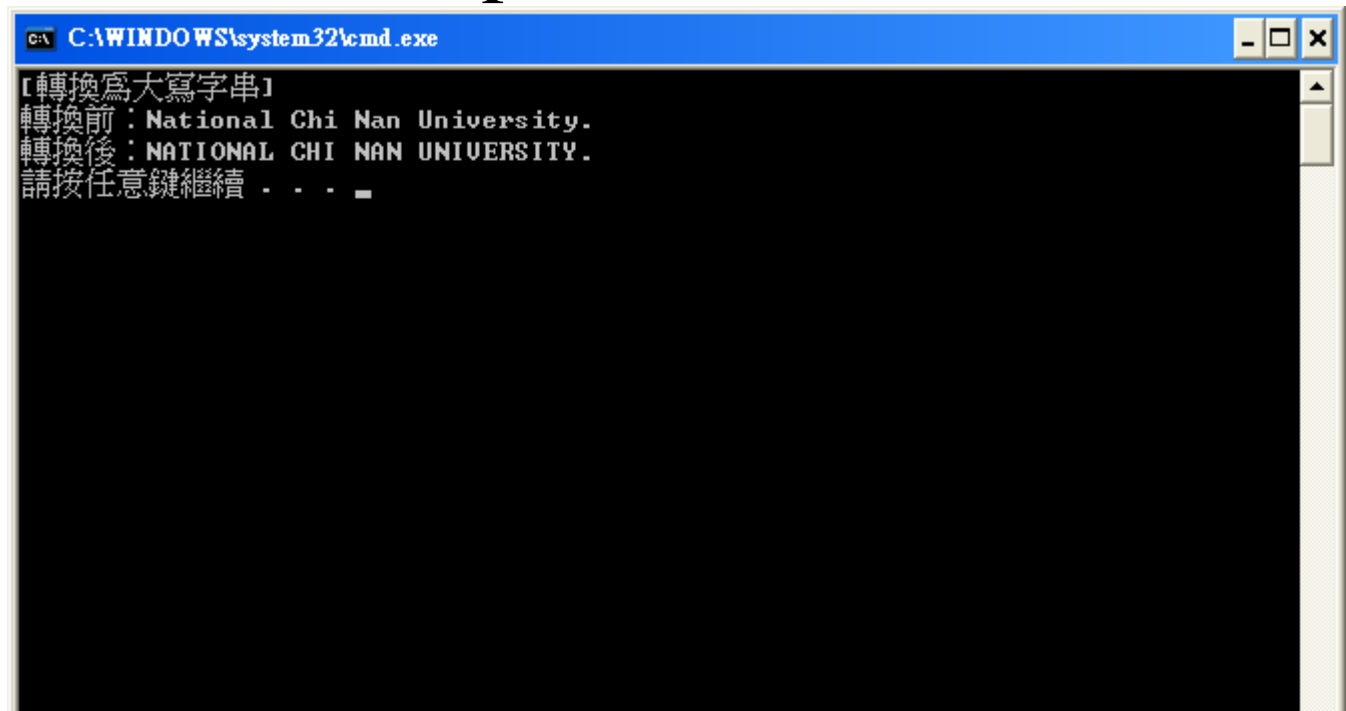


# HW9\_1

- (From: Exercise 3 on P.230)
- Declare a character array, and initialize it to "National Chi Nan University."
- Use a loop to change every character to uppercase. Then output the converted character array.

# HW9\_1

- **Hint:** In the ASCII character set, values for uppercase characters are 32 less than their lowercase counterparts.



```
C:\WINDOWS\system32\cmd.exe
[轉換為大寫字串]
轉換前：National Chi Nan University.
轉換後：NATIONAL CHI NAN UNIVERSITY.
請按任意鍵繼續 . . .
```



# HW9\_2

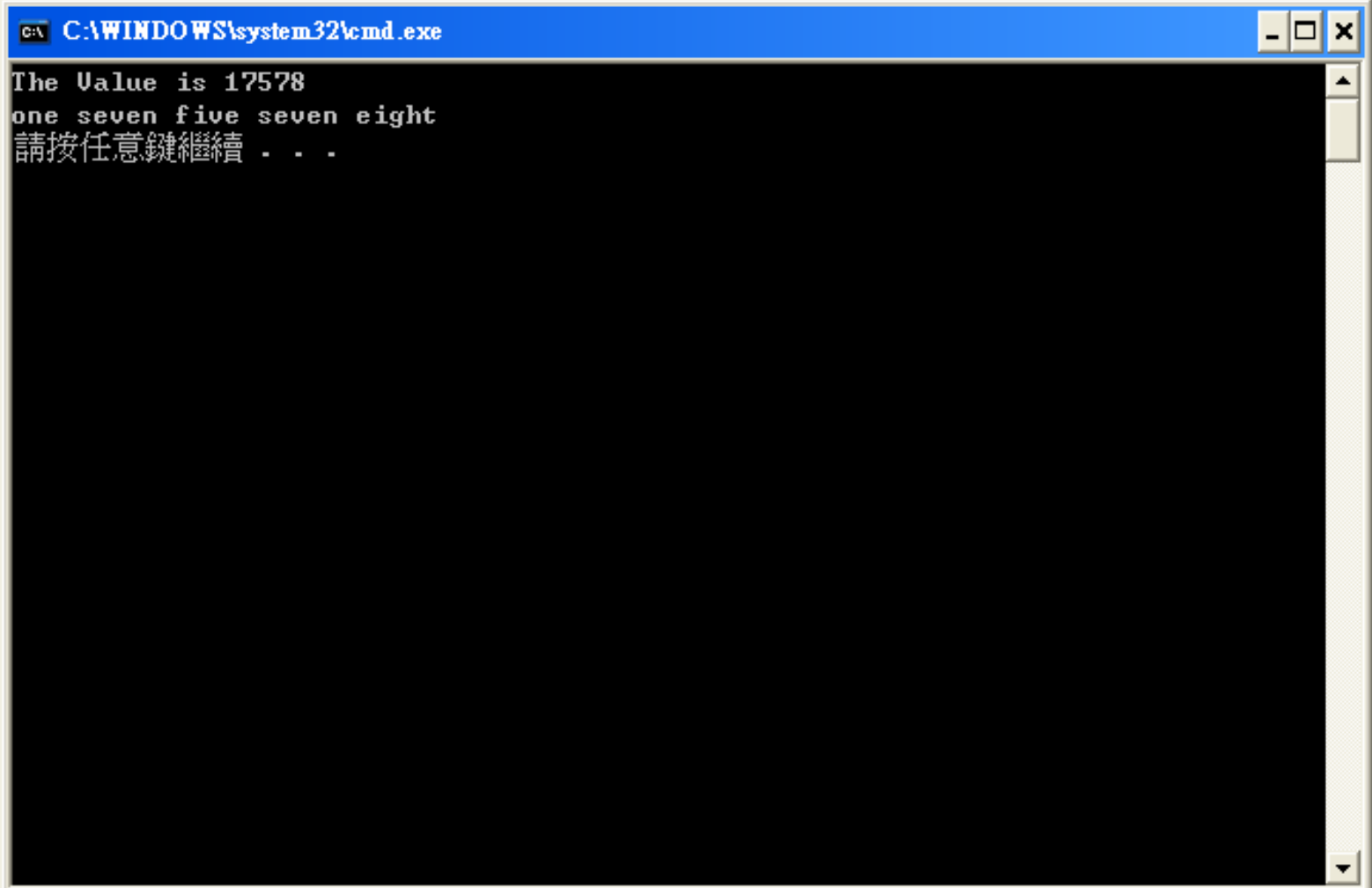
- (From: Exercise 5 on P.230)
- Write a C++ program that will generate a random integer greater than 10,000.
- Output the integer and then output the digits in the integer in words.
- For example, if the integer was 345678, then the output should be: The value is 345678 three four five six seven eight



# HW9\_2

- **Hint:** The rand function returns a pseudorandom integer in the range 0 to RAND\_MAX (32767). You may test the following example:
- // Print 5 random numbers.  
srand( (unsigned)time( NULL ) );  
for (int i = 0; i < 5; i++ )  
    cout << rand() << endl;

# HW9\_2



The screenshot shows a Windows command prompt window with a blue title bar. The title bar text is "C:\WINDOWS\system32\cmd.exe". The window content is black with white text. The text displayed is: "The Value is 17578", "one seven five seven eight", and "請按任意鍵繼續 . . .". The window has standard Windows window controls (minimize, maximize, close) in the top right corner and a vertical scrollbar on the right side.

```
C:\WINDOWS\system32\cmd.exe
The Value is 17578
one seven five seven eight
請按任意鍵繼續 . . .
```