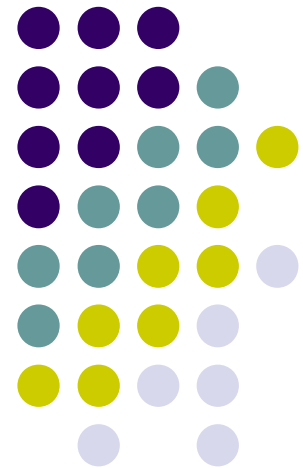


# CS-TA

## HW13

Speaker : Chungyi Wang

Date : 2007/12/28



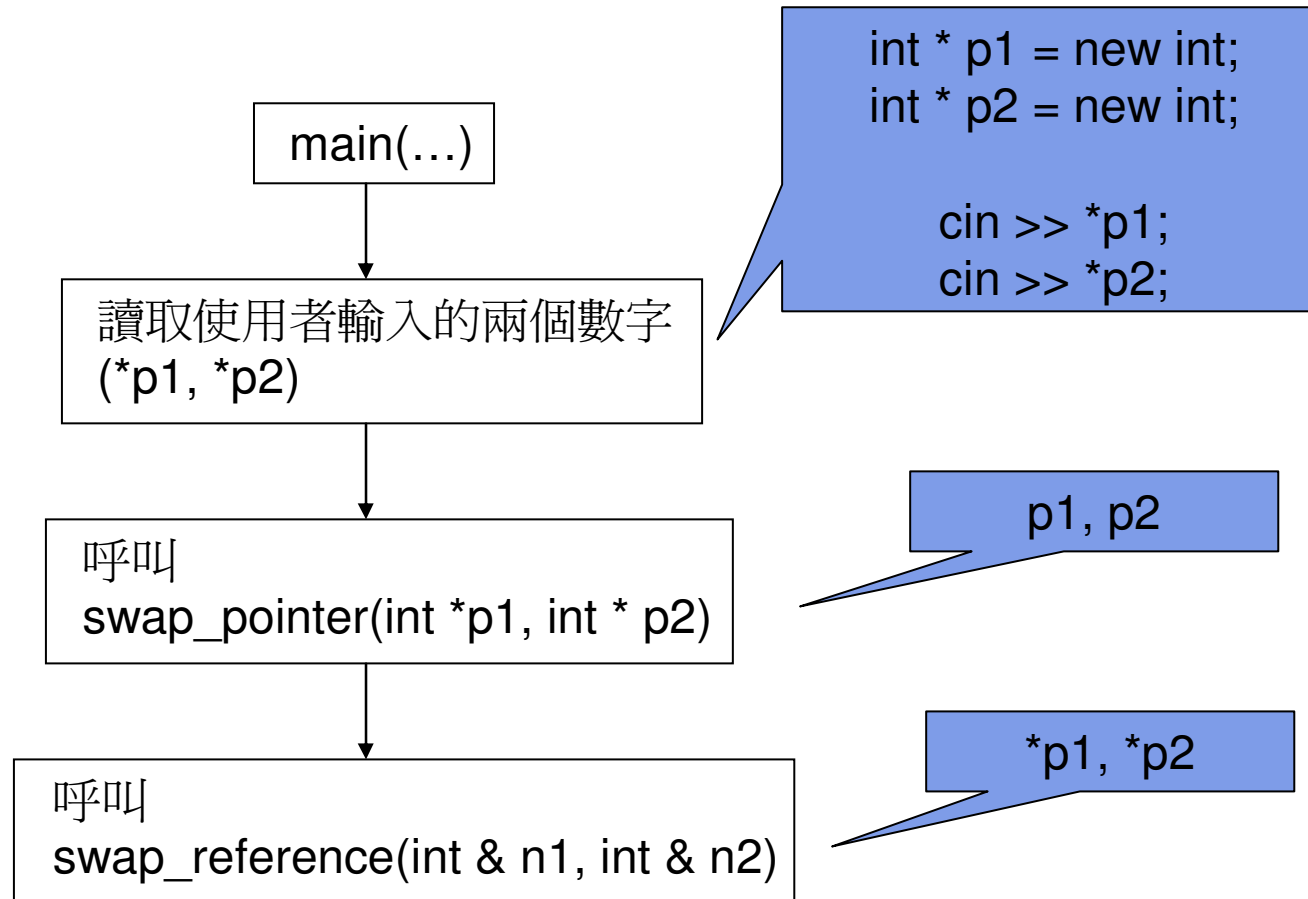


# HW13\_1

- (From: Exercise 2 on P.269)  
Write a function that swaps two integers, using pointers as arguments. Write a program that uses this function and test that it works correctly.
- Furthermore, write a second function for swapping two integers, and try to pass the arguments by reference (P.247).

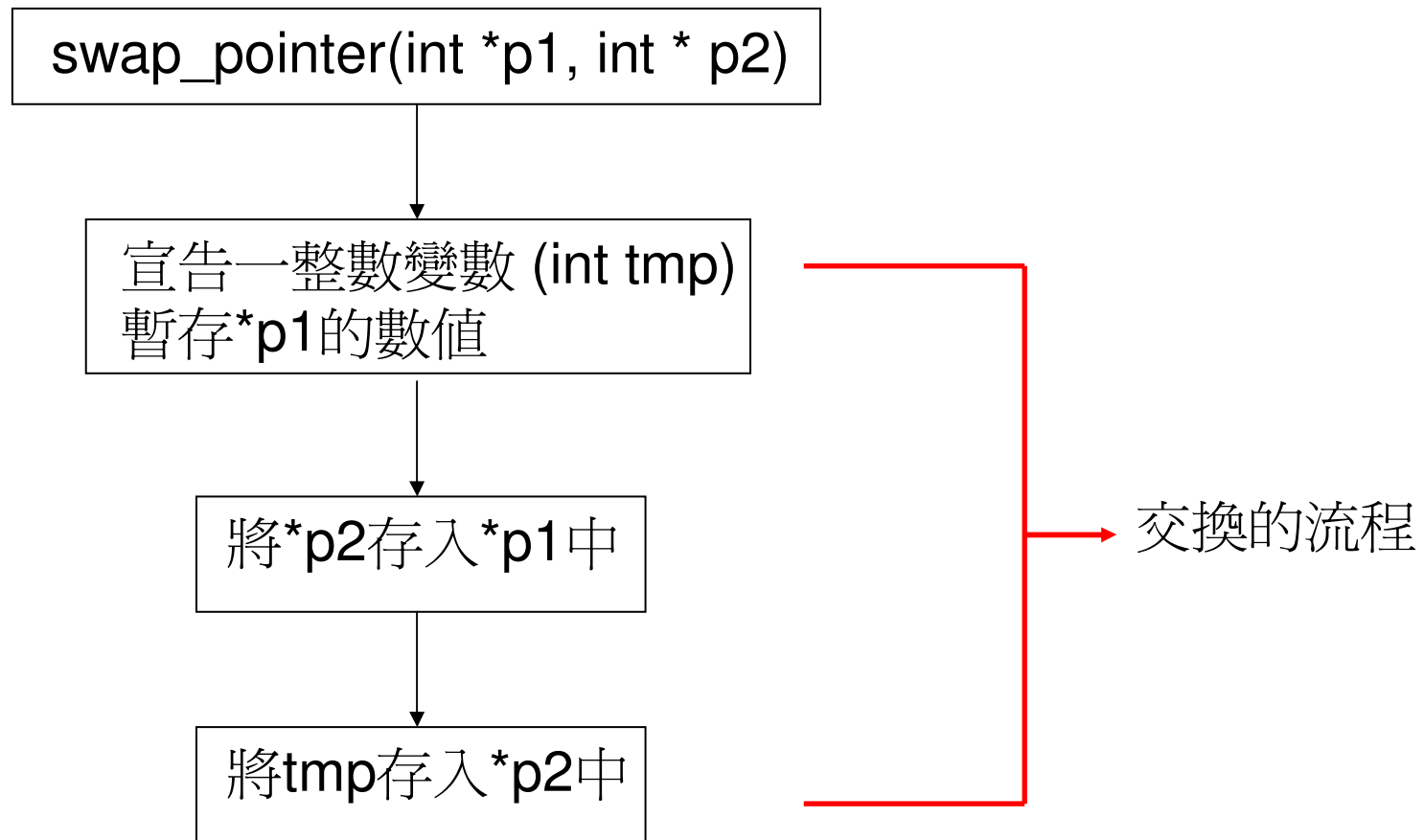


# HW13\_1 (Cont.)



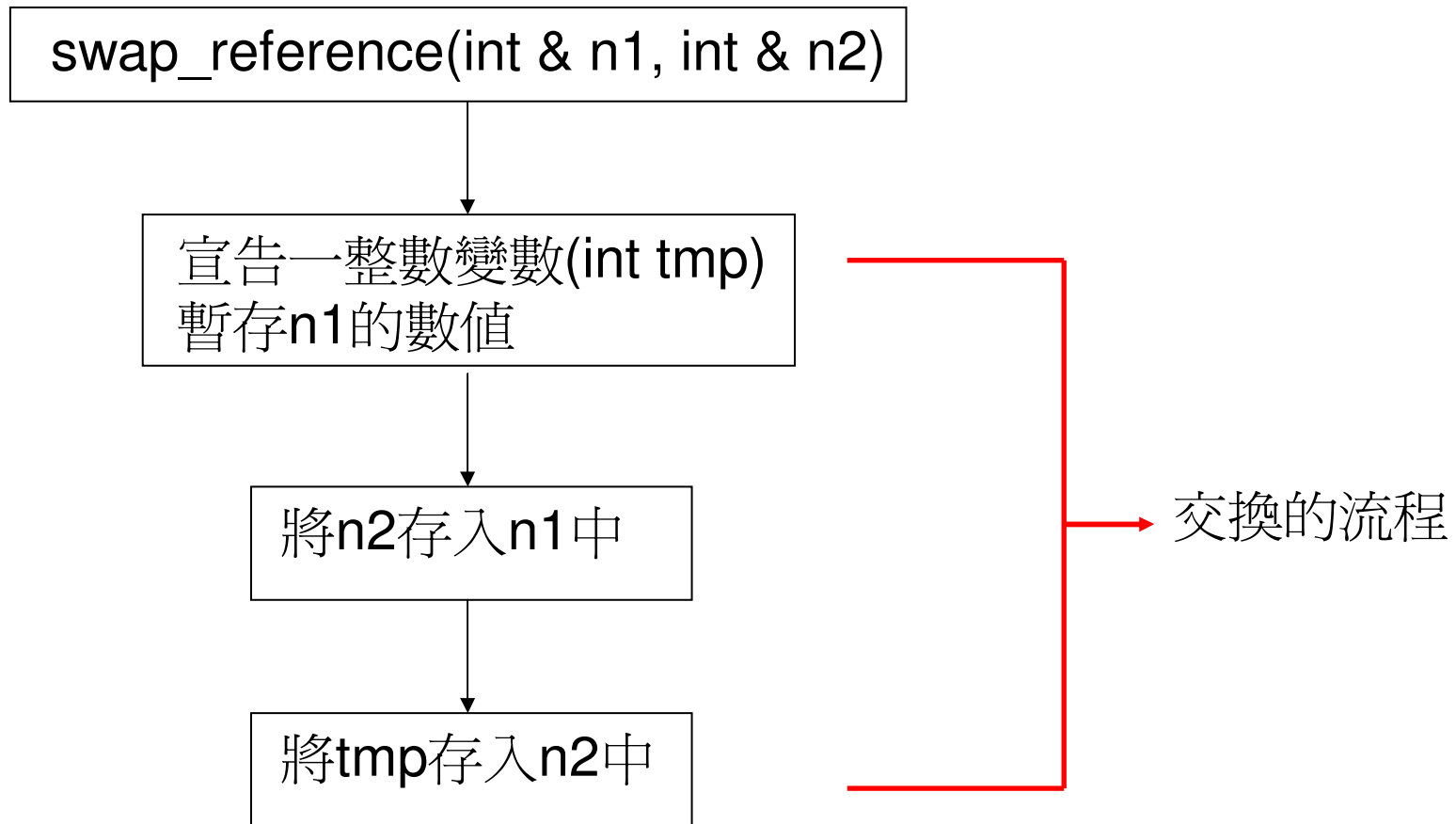


# HW13\_1 (Cont.)





# HW13\_1 (Cont.)





# HW13\_1 (Cont.)

```
C:\ e:\Documents and Settings\Administrator\My Documents\Visual Studio 20... - _ □ ×
Please enter first number(*p1):1010
Please enter second number(*p2):1020

Swaping by swap_pointer(int * p1, int * p2)

After swaping...
  First number(*p1) is 1020
  Second number(*p2) is 1010

=====

Please enter first number(*p1):2010
Please enter second number(*p2):2020

Swaping by swap_reference(int & n1, int & n2)

After swaping...
  First number(*p1) is 2020
  Second number(*p2) is 2010

=====

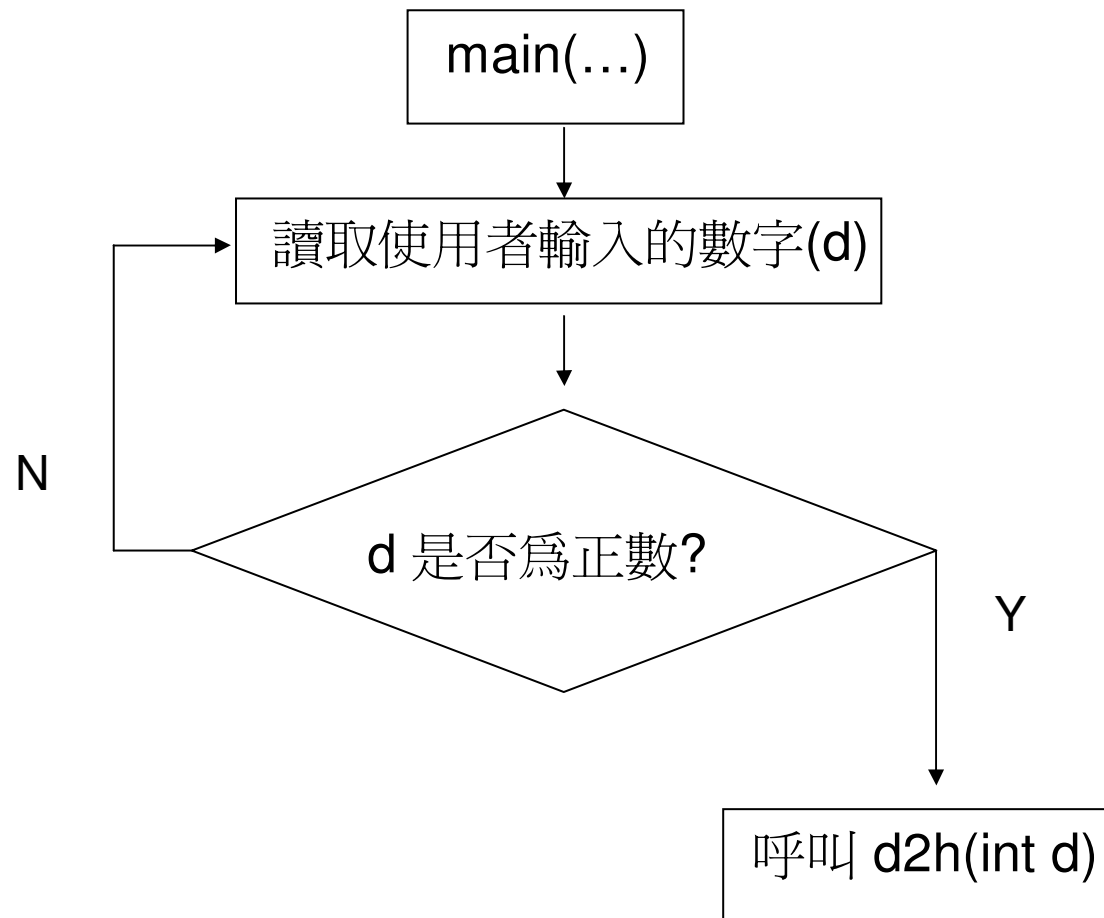
請按任意鍵繼續 . . .
```

# HW13\_2

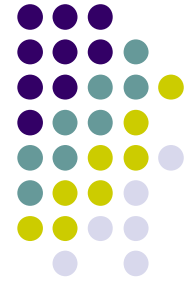


- Write a recursive function which convert a decimal integer to hexadecimal.
- Write a program that keeps getting a positive integer from the user and call the function to print it out.

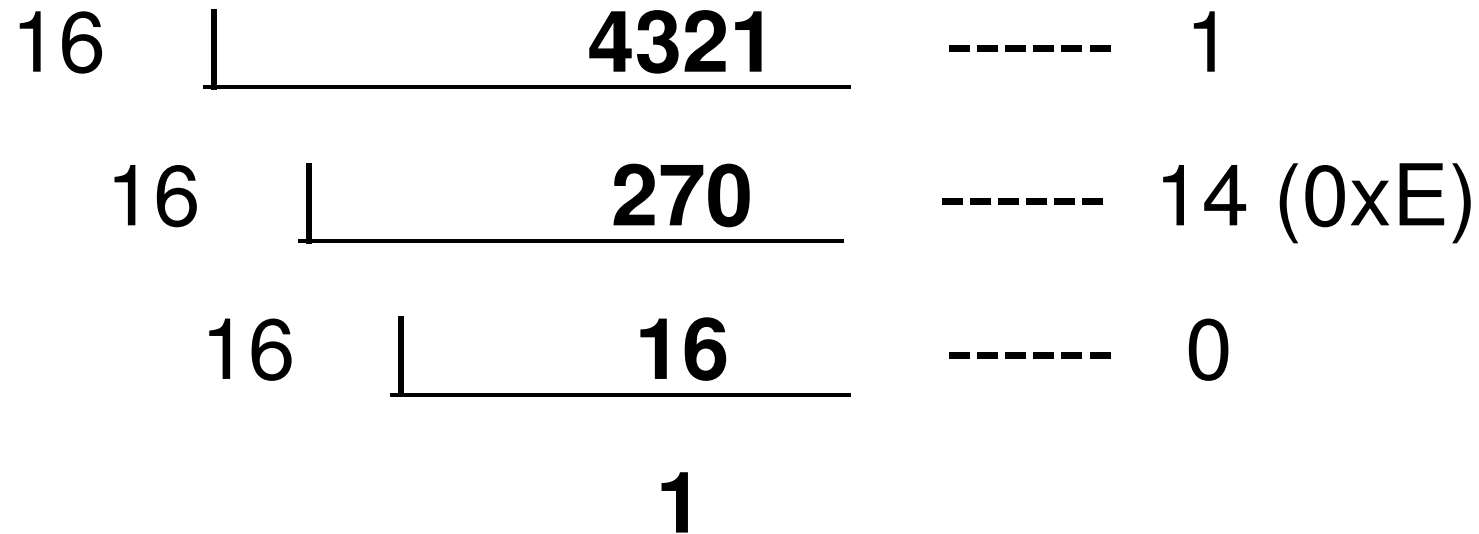
# HW13\_2 (Cont.)





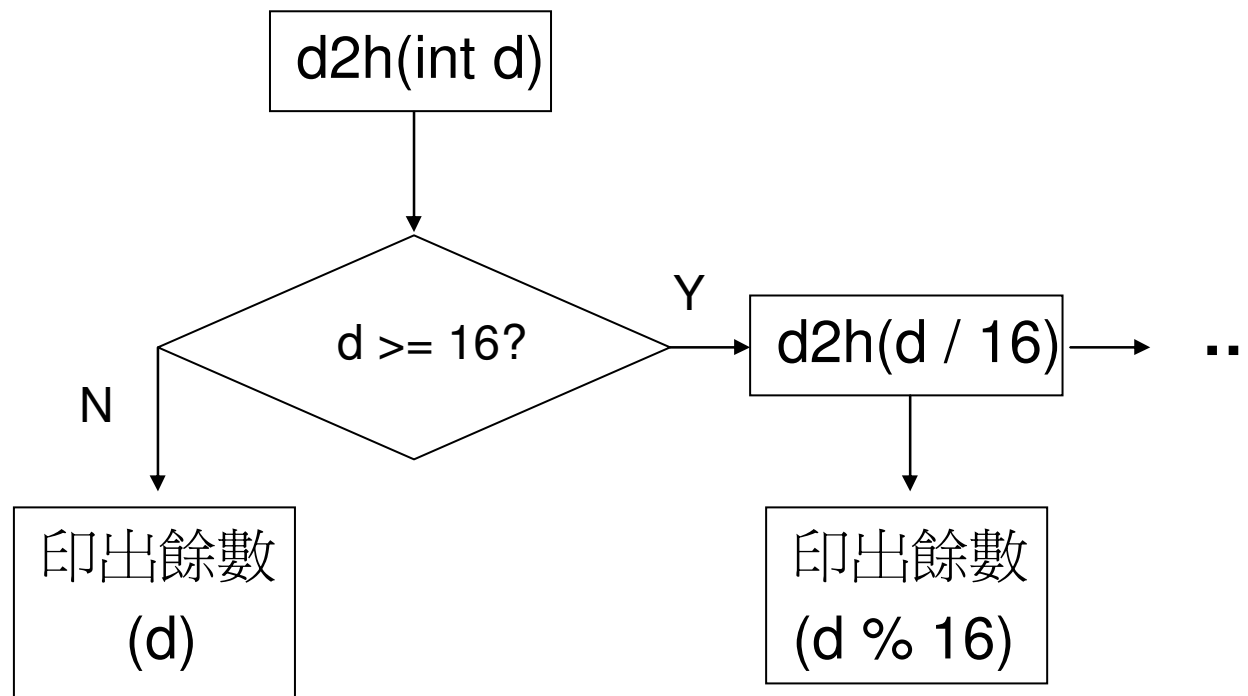


# HW13\_2 (Cont.)



- 4321 = 0x10E1

# HW13\_2 (Cont.)



# HW13\_2 (Cont.)



```
C:\ e:\Documents and Settings\Administrator\My Docu... - _ x
請輸入一個正整數:45698712
16進位為:0x 2 B 9 4 E 9 8
請按任意鍵繼續 . . .
```