### **HW11**

## 作業繳交方式:上傳 iLearning3

# %本作業只要上傳檔案 Q1.c, Q2.c

#### 1. (50%) Program Q1.c

#### Write a C program

- (a) Create a date structure date that has 3 members include year, month and day, and the types are all integers.
- (b) Declare a structure variable holiday of the structure date type, and set the initial value to {2004, 4, 26}.
- (c) Declare a structure variable festival of the structure date type, and set the year member of the variable festival to 2005, month member to 12, and day member to 25 by inputting values from the keyboard.
- (d) Print out the values of structure holiday and festival in mm/dd/yyyy format. For example, 06/18/2004.

The screen dialog should appear as follows:

Input year: 2005
Input month: 12

Input day: 25

holiday=04/26/2004 festival=12/25/2005

#### 2. (50%) Program Q2.c

#### Write a C program

- (a) Create a time structure time that has 3 members include hour, minutes and second, where the type of hour and minutes are both integers, and the type of second is double.
- (b) Declare a structure variable start of the structure time type, and set the initial value to {12, 32, 25.49}.
- (c) Declare a struct variable end of the structure time type, and set the initial value to {15, 12, 17.53}.
- (d) Print out the values of structure start and end in the format of hh:mm:ss.ss. For example, 05:19:20.43 represents 5 hours, 19 minutes, and 20.43 seconds.
- (e) Try to calculate the total elapsed time from start to end. Please use another structural variable elapse to store the elapsed time and print it out in the format of hh:mm:ss.ss.

The screen dialog should appear as follows:

start=12:32:25.49 end=15:12:17.53 elaspe=02:39:52.04