

DCP1203 - TA course

09.29

Outline

- Timetable
- Format of Homework File
- Discussion About HW1
- HW2 Explanation

日期	上課內容	上課 (週一)	上機 (週二)	上課 (週四)	備註	作業
9/11,12,14	Introduction to C					
9/18,19,21	C Fundamentals and Basic Data Types					HW1
9/25,26,28	Format Input / Output					HW2
10/2,3,5	Experessions			課堂小考		HW3
10/9,10,12	Selection Statements				10/10放假	HW4
10/16,17,19	Loops		上機小考一(HW1-4)	課堂小考		HW5
10/23,24,26	Functions					HW6
10/30,31,11/2	Arrays and Strings					HW7
11/6,7,9		期中考試	期中上機(HW1-7)			
11/13,14,16	Program Organization					HW8
11/20,21,23	Pointers I			課堂小考		HW9
11/27,28,30	Pointers II					HW10
12/4,5,7	Dynamic Memory Allocation		上機小考二(HW8-10)			HW11
12/11,12,14	Structures, Unions and Enumerations			課堂小考		HW12
12/18,19,21	Python					HW13
12/25,26,28			上機小考三(HW11-13)			HW14
1/1,2,4				課堂小考	1/1放假	
1/8,9,11			期末上機(HW8-14)			

Homework Format

- Hand in **ONLY THE .C FILES**
- Watch the naming of your files
 - Ex.1 Question **3** of HW**1** -> 06XXXXXX_1_3.c
 - Ex.2 Question **5** of HW**3** -> 06XXXXXX_3_5.c
- **STUDENT ID_HW NUMBER_QUESTION NUMBER.c**

README.md

Project Name

Synopsis

The description of this projects.

API Reference

Paste the references here, if you used them in your project.

Contributor

Week2 Homework

Synopsis

1. Write a program that accepts a name from the user and then print out
2. Input mm/dd/yyyy, then output yyymmdd.
3. A simple calculator.
4. Input a number, then output it with after two decimal
5. Use ASCII Code to display "nctu"
6. Whether the input number is odd or even.

API Reference

[C All Reference](<http://en.cppreference.com/w/c>)

Contributor

[Red-Fish, Chang @

GitHub](<https://github.com/RedFishChang>)

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API Reference

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Homework 1 Discussion

Question 1

- `printf("Liwei Chan\n");`

Question 2

- `printf("*\n***\n*****\n***\n*\n");`

Question 3

- Naming of variables (int)

Question 4

- Variable type (int storing characters?)

Question 5

- Variable type (overflow)

Question 6

- Structure of for-loop

```
for(initial value; condition; things to do at the end of every loop){  
    ...  
    loop content;  
}
```

- Initial value: initial condition set
- Condition: the condition set to end the for-loop
- Separate initial values and conditions using comma

```
int index, count;  
for(index = 0, count = 1; index < 10; index++, count++){  
    printf("The current index is %d\n", count);  
}
```

Homework 2

Question 1

Write a program that accepts a name from the user and then print out

```
Enter your name : Liwei  
Hello, Liwei
```

Question 2

Write a program that accepts a date from the user in the form mm/dd/yyyy and then displays it in the form yyymmdd:

```
Enter a date (mm/dd/yyyy): 02/14/2017  
You entered the date 20170214
```

Question 3

Write a program to print out the number after two decimal places which you input.

```
Your input number: 94.87  
94.87
```

Question 4

Write a C program to perform addition, subtraction, multiplication and division of two numbers.

```
10 5
```

```
The sum of the given numbers : 15
```

```
The difference of the given numbers : 5
```

```
The product of the given numbers : 50
```

```
The quotient of the given numbers: 2.000000
```


Question 5

Please use ASCII Code to display 'nctu' in your program.

```
Your input: nctu  
ASCII: 11099116117
```

Question 6 (bonus)

Red-Fish gave Wen-Jie a list of positive integer numbers. Wen-Jie has to check whether each number is odd or even. However, he doesn't know the concept of odd and even number. Can you help Wen-Jie to solve his problem?

Please write a program to determine whether the input number is odd or even. If the input number is -1, end the program.

Red-Fish: The number is 13

Wen-Jie: The answer is odd.

Red-Fish: The number is 20

Wen-Jie: The answer is even.

Red-Fish: The number is -1

Wen-Jie: I don't know, I quit.

Process exited after 5.247 seconds with return value 0

請按任意鍵繼續 . . .