

# Lab #01

Date: 2014/02/19

# 實習課資訊

- 課程網站和Lab時程表:  
<http://www.im.ntu.edu.tw/~lckung/courses/PDSp14/>
- 教室： 管院一號館三樓大電腦教室
- 時間： 6:30-8:15pm, Wednesday.
- 線上批改網站 [PDOGS](#)

# TA 資訊

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# IDE (Integrated Development Environment)

- 整合開發環境 ( Integrated Development Environment , 簡稱 **IDE** , 也有人稱為Integration Design Environment 、 Integration Debugging Environment ) 是一種輔助程式開發人員開發軟體的應用軟體。
- <http://zh.wikipedia.org/zh-tw/%E6%95%B4%E5%90%88%E9%96%8B%E7%99%BC%E7%92%B0%E5%A2%83>

# Dev C++

- 一個數年前受到許多人喜愛，介面簡單方便的 C++ IDE。
- 2005年發布4.9.9.2版後再也沒有更新過

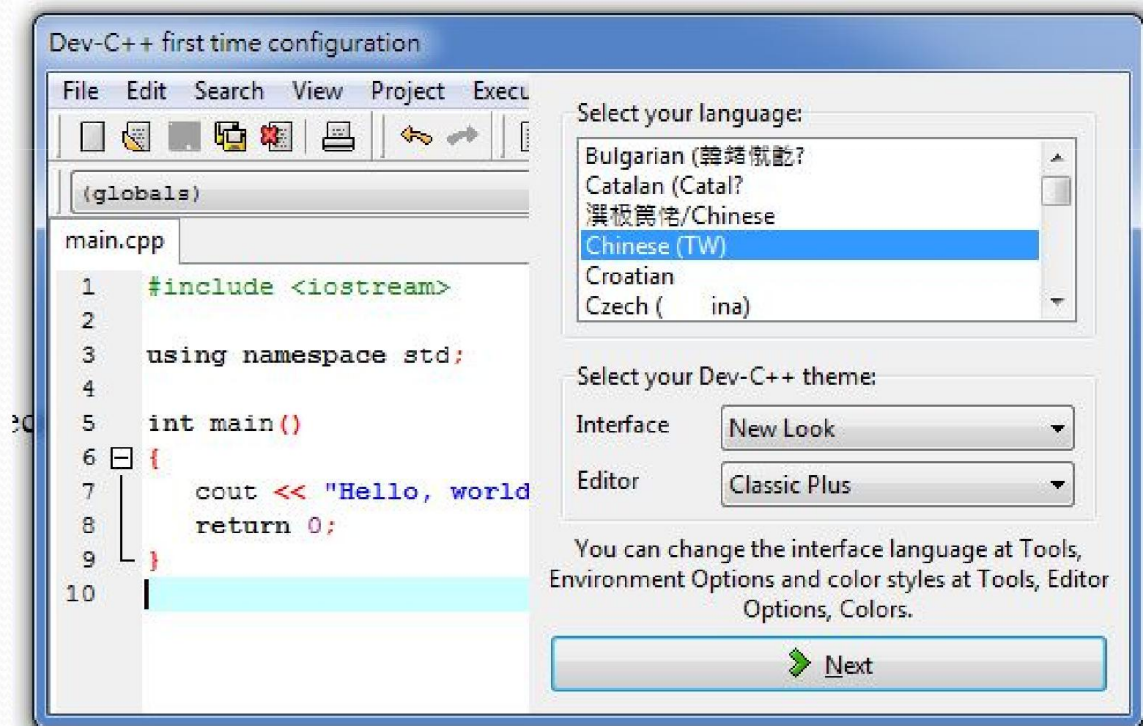


# Orwell Dev-C++

- 由Orwell 開發
- Dev-C++ 5.6.1 released
- 下載位址:  
<http://sourceforge.net/projects/orwelldvcpp/>

# Install Orwell Dev-C++

- 一路按next，直到.....





# IDE 常用功能

- 工具 → 編輯器選項
- 編譯(F9)
- 執行(F10)
- 編譯並執行(F11)



# 註解

- 單行註解:        `// 我是註解`
- 多行註解:        `/* 我是註解`  
                      `我也是註解 */`
- Ctrl + .
- Ctrl + ,

# 程設小教室^.<~

- 許功蓋何許人也？
- “只要有成功，code就一定會失敗”
- 註解盡量使用英文



# Escape character practice

- 輸出到畫面

“你的學號”

- Ex.

“b02705001”

# Coding Style

- 為了提供程式好的可讀性，讓別人看你的code一樣輕鬆易懂
- 現在的專案幾乎都是多人合作開發，接手別人的code繼續開發相當稀鬆平常
- “Coding is an art”
- Demo



# PDOGS



- <http://lckung.im.ntu.edu.tw/PD/>
- Submit and verify your program online
- Compiler version: g++ 4.7.2 (update to 4.8.2 later)


# PDOGS

## Programming Design **Online Grading** System

*First time visit? Please [Sign Up](#) with your Student ID or [Login](#)*

Wednesday, 6 Mar 2013, 16:59:46

	Your Student ID ex.b01705001
	Password









# PDOGS

- Sign up with your student ID  
(first character is lowercase)

Programming Design **Online Grading** System

*First time visit? Please [Sign Up](#) with your Student ID or [Login](#)*

Wednesday, 6 Mar 2013, 17:03:44

	<input type="text" value="r01725007"/>	
	<input type="password" value="Password"/>	
	<input type="password" value="Confirm Password"/>	



# PDOGS

## Programming Design Online Grading System

PDOGS

Problem Set

Submit Homework ▼

Project ▼

Records

Scores

Hi, r01725007 ▼

**Find problem  
definition**

**Submit your code and  
judge immediately**

**Project race  
(will use it later)**

**Show the homework  
submitting records  
and scores**



# PDOGS

- Home: new information announced
- Problem Set: the problems that judged by PDOGS
- Submit Homework:  
submit your cpp file and get the score!
- Records: your last 15 submit records
- Scores: the all problem status you submitted

# PDOGS - submit

- How to submit your code?

**Programming Design Online Grading System**

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PDOGS   Problem Set   **Submit Homework ▼**   Project ▼   Records   Scores   Hi, r01725007 ▼

PD14-1  
PD14-2a

**PD14-2a**

File format: .c or .cpp

File size: max 3MBs

- “PD14-1” means PD class 2014 homework 1
- “PD14-2a” means PD class 2014 homework 2 subquestion a



# PDOGS - submit


## Programming Design Online Grading System

PDOGS	Problem Set	Submit Homework ▾	Project ▾	Records	Scores	Hi, r01725007 ▾
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[PD14-2a](#)

File format: .c or .cpp

File size: max 3MBs

 hw.cpp	Change File	Remove	Upload
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# PDOGS - submit

- Do not add `system("pause")` in your submission, or it will exceed the time limitation.
- Be careful while handling the input and output format.
- At most cases, `"endl"` is better than `"\n"`



# PDOGS - records

PDOGS

Home

Problem Set

Submit Class HW

Submit Lab HW

Records

Scores

Hi, r01725007

Problem	Status	Run time	Submission date	Score
LAB002	Accepted	0.443s	2013-03-06 16:50:53	100
LAB002	Wrong answer	0.401s	2013-03-06 16:50:08	90
LAB002	Compilation error	0s	2013-03-06 16:49:28	0
LAB001	Accepted	0.436s	2013-03-06 16:49:14	100
PD001	Accepted	0.365s	2013-03-06 01:32:50	70
PD001	Time limit exceed	0.345s	2013-03-06 01:32:31	70
PD001	Runtime error	0.419s	2013-03-06 01:31:56	98
PD001	Wrong answer	0.418s	2013-03-06 01:31:06	100
PD001	Accepted	0.421s	2013-03-06 01:24:05	70
PD001	Wrong answer	0.444s	2013-03-06 01:22:41	70
PD001	Wrong answer	0.698s	2013-03-06 01:18:43	70
PD001	Accepted	0.42s	2013-03-04 08:03:58	100

# PDOGS - scores

- Only the last submit record will be considered!

## Programming Design Online Grading System

PDOGS

[Home](#)

[Problem Set](#)

[Submit Class HW](#)▼

[Submit Lab HW](#)▼

[Records](#)

**Scores**

Hi, r01725007▼

### PD Problems

Problem	Status	Run time	Submission date	Score
PD001	Accepted	0.365s	2013-03-06 01:32:50	70

### LAB Problems

Problem	Status	Run time	Submission date	Score
LAB001	Accepted	0.436s	2013-03-06 16:49:14	100
LAB002	Accepted	0.443s	2013-03-06 16:50:53	100



# if and while statement

- `if ( condition ){`  
    `statement;`  
    `//if condition is true, do the statement`  
    `//if condition is false, do nothing`  
    `}`
- `while( condition ){`  
    `statement;`  
    `//if condition is true, do the statement`  
    `//then check condition again, if true do statement until`  
    `//condition is false`  
    `}`



# Any Question?

- Lab Material: