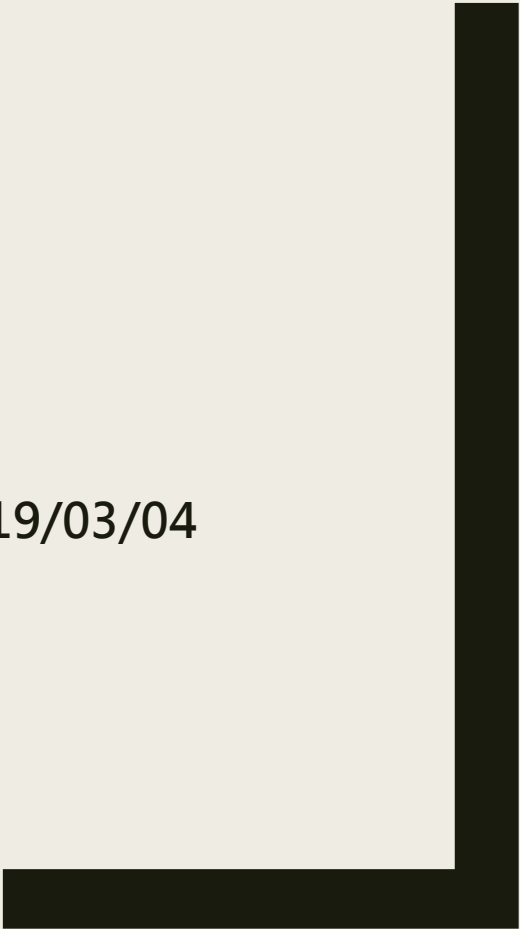




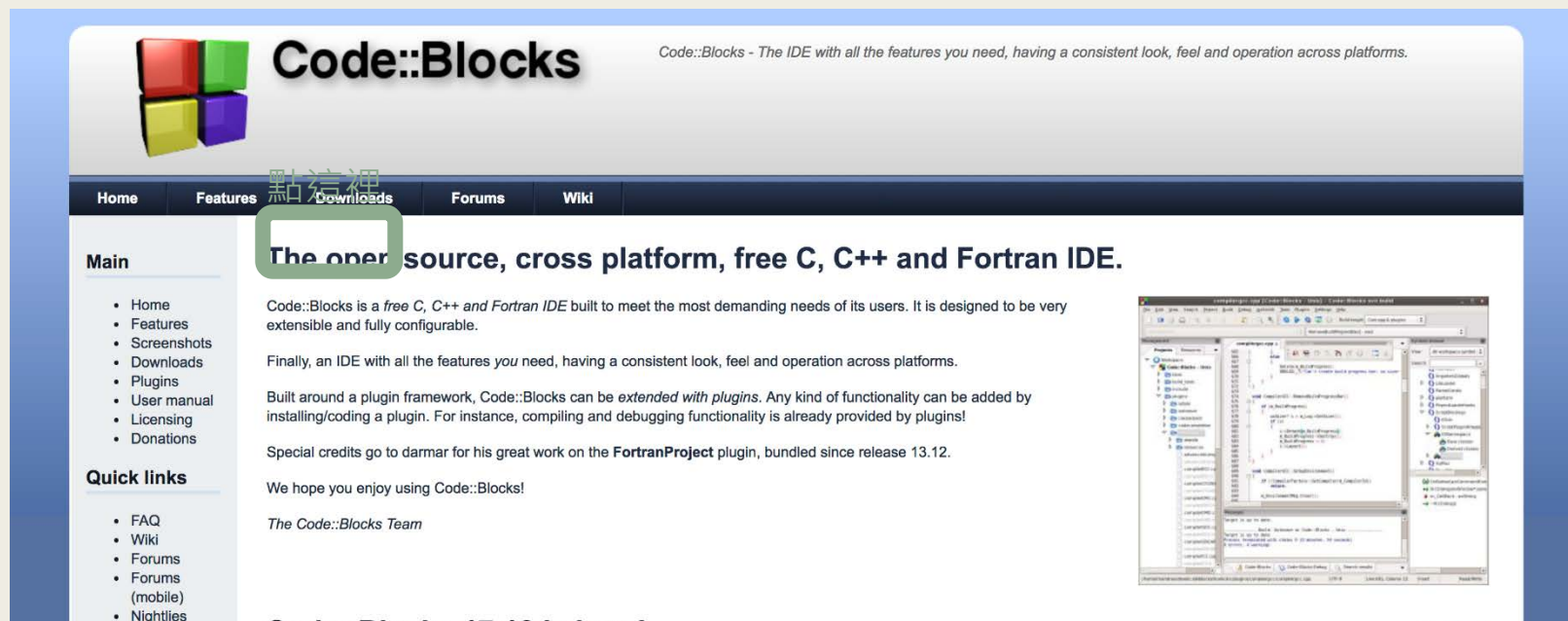
# Practice

2019/03/04



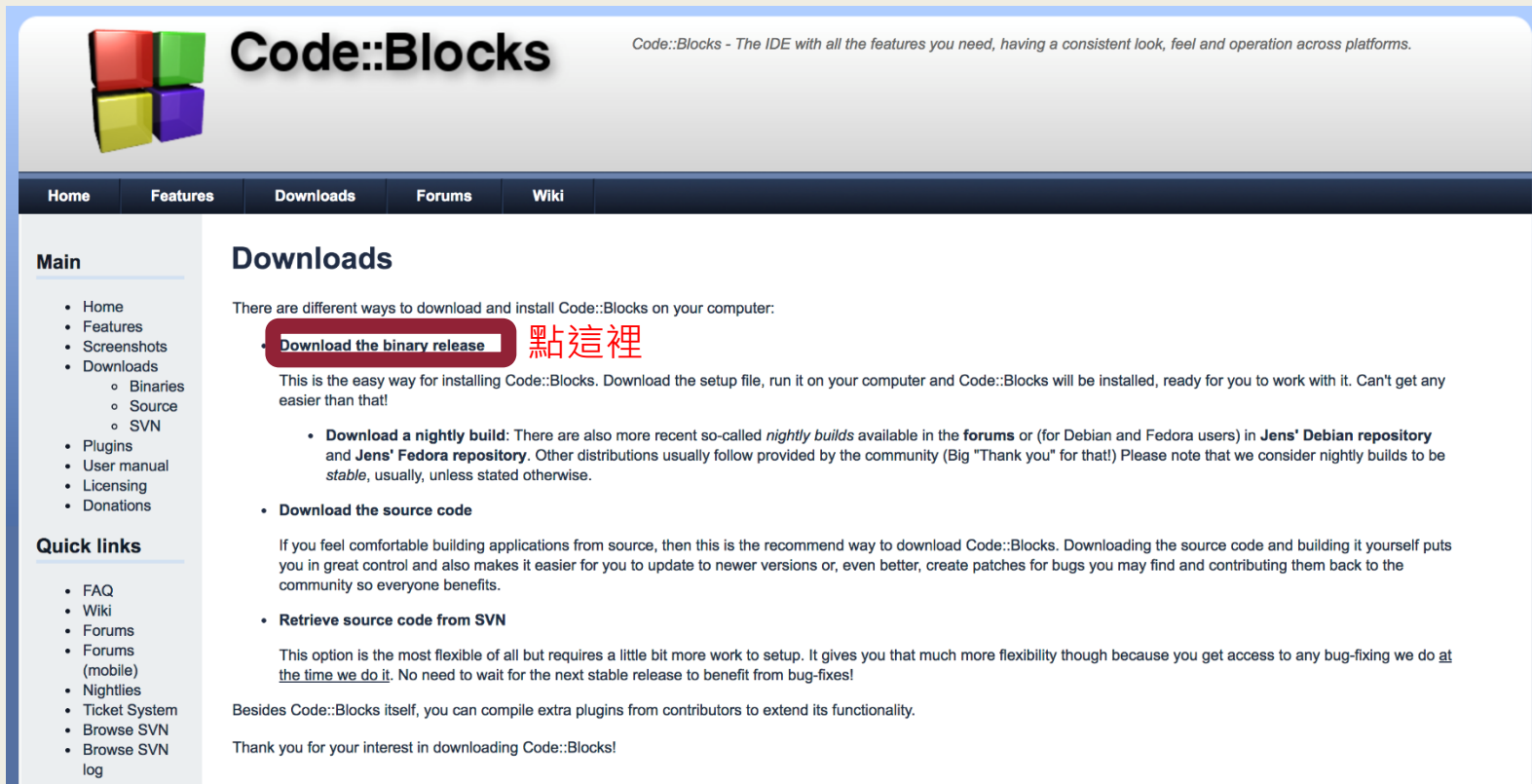
# Install code::blocks (1)

- 到 Code::Blocks 的網站(<http://www.codeblocks.org>)
- 點 Downloads



# Install code::blocks (2)

## ■ 點 Download the binary release



The screenshot shows the Code::Blocks website. The header features the Code::Blocks logo (four colored squares) and the text "Code::Blocks" in a large, bold font. Below the header is a navigation bar with links: Home, Features, Downloads, Forums, and Wiki. The main content area is titled "Downloads" and contains the following text:

There are different ways to download and install Code::Blocks on your computer:

- **Download the binary release** 點這裡

This is the easy way for installing Code::Blocks. Download the setup file, run it on your computer and Code::Blocks will be installed, ready for you to work with it. Can't get any easier than that!

- **Download a nightly build:** There are also more recent so-called *nightly builds* available in the **forums** or (for Debian and Fedora users) in **Jens' Debian repository** and **Jens' Fedora repository**. Other distributions usually follow provided by the community (Big "Thank you" for that!) Please note that we consider nightly builds to be *stable*, usually, unless stated otherwise.
- **Download the source code**

If you feel comfortable building applications from source, then this is the recommend way to download Code::Blocks. Downloading the source code and building it yourself puts you in great control and also makes it easier for you to update to newer versions or, even better, create patches for bugs you may find and contributing them back to the community so everyone benefits.

- **Retrieve source code from SVN**

This option is the most flexible of all but requires a little bit more work to setup. It gives you that much more flexibility though because you get access to any bug-fixing we do at the time we do it. No need to wait for the next stable release to benefit from bug-fixes!

Besides Code::Blocks itself, you can compile extra plugins from contributors to extend its functionality.

Thank you for your interest in downloading Code::Blocks!

**Main**

- Home
- Features
- Screenshots
- Downloads
  - Binaries
  - Source
  - SVN
- Plugins
- User manual
- Licensing
- Donations

**Quick links**

- FAQ
- Wiki
- Forums
- Forums (mobile)
- Nightlies
- Ticket System
- Browse SVN
- Browse SVN log

# Install code::blocks (3)

- 點 Download the binary release 後，找到 codeblocks-17.12mingw-setup.exe 把它下載下來
- 下載好後打開它照上面的指示就能安裝完成

- Plugins
- User manual
- Licensing
- Donations

### Quick links

- FAQ
- Wiki
- Forums
- Forums (mobile)
- Nightlies
- Ticket System
- Browse SVN
- Browse SVN log



consider highly secure to be secure, security.

**NOTE:** We have a **Changelog for 17.12**, that gives you an overview over the enhancements and fixes we have put in the new release.

---

 **Windows XP / Vista / 7 / 8.x / 10:**

File	Date	Download from
<a href="#">codeblocks-17.12-setup.exe</a>	30 Dec 2017	<a href="#">Sourceforge.net</a>
<a href="#">codeblocks-17.12-setup-nonadmin.exe</a>	30 Dec 2017	<a href="#">Sourceforge.net</a>
<a href="#">codeblocks-17.12-nosetup.zip</a>	30 Dec 2017	<a href="#">Sourceforge.net</a>
<a href="#">codeblocks-17.12mingw-setup.exe</a>	30 Dec 2017	<a href="#">Sourceforge.net</a>
<a href="#">codeblocks-17.12mingw-nosetup.zip</a>	30 Dec 2017	<a href="#">Sourceforge.net</a>
<a href="#">codeblocks-17.12mingw_fortran-setup.exe</a>	30 Dec 2017	<a href="#">Sourceforge.net</a>

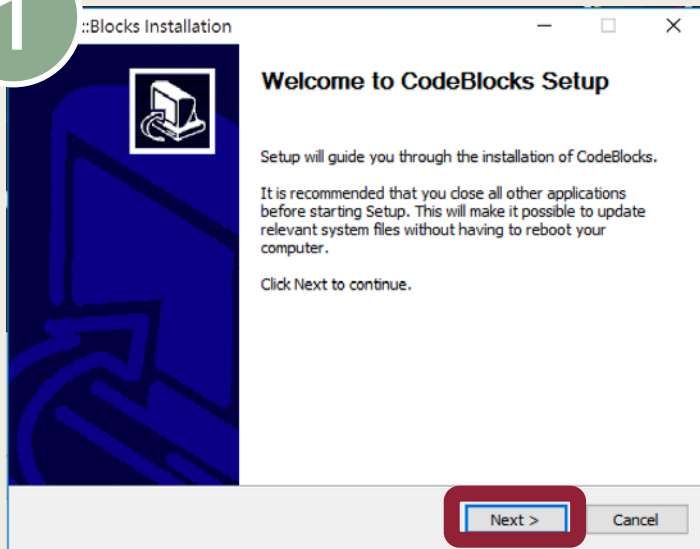
**NOTE:** The codeblocks-17.12-setup.exe file includes Code::Blocks with all plugins. The codeblocks-17.12-setup-nonadmin.exe file is provided for convenience to users that do not have administrator rights on their machine(s).

**NOTE:** The codeblocks-17.12mingw-setup.exe file includes *additionally* the GCC/G++ compiler and GDB debugger from **TDM-GCC** (version 5.1.0, 32 bit, SJLJ). The codeblocks-17.12mingw\_fortran-setup.exe file includes *additionally to that* the GFortran compiler (**TDM-GCC**).

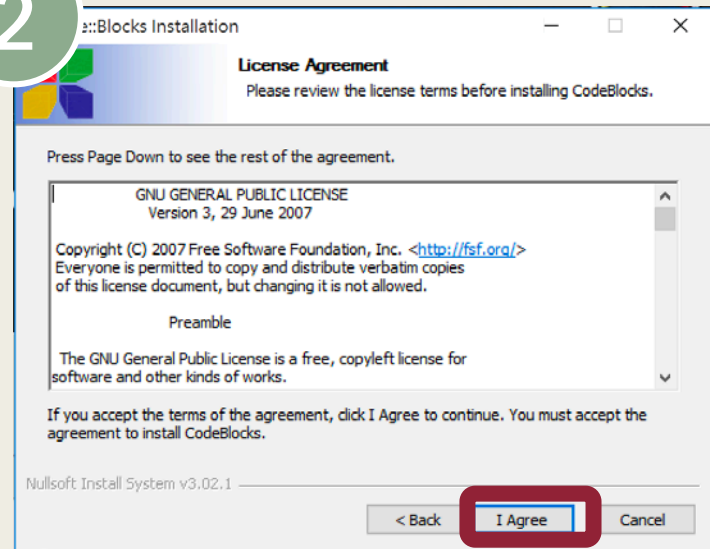
**NOTE:** The codeblocks-17.12(mingw)-nosetup.zip files are provided for convenience to users that are allergic against installers. However, it will not allow to select plugins / features to install (it includes everything) and not create any menu shortcuts. For the "installation" you are on your own.

# Install code::blocks (4)

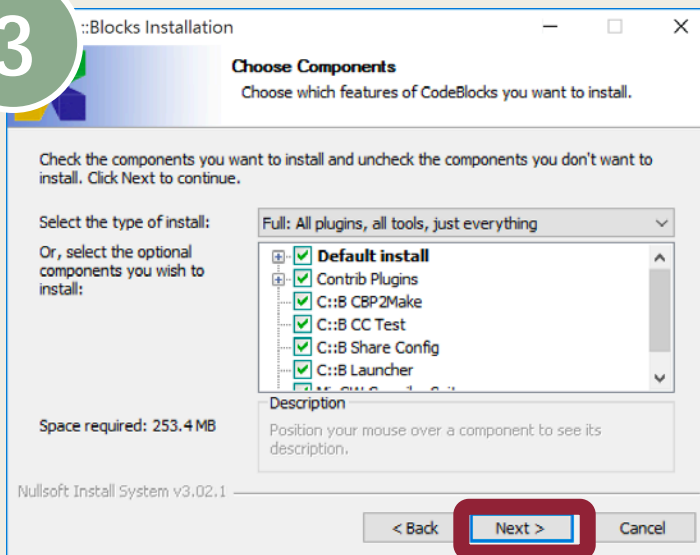
1



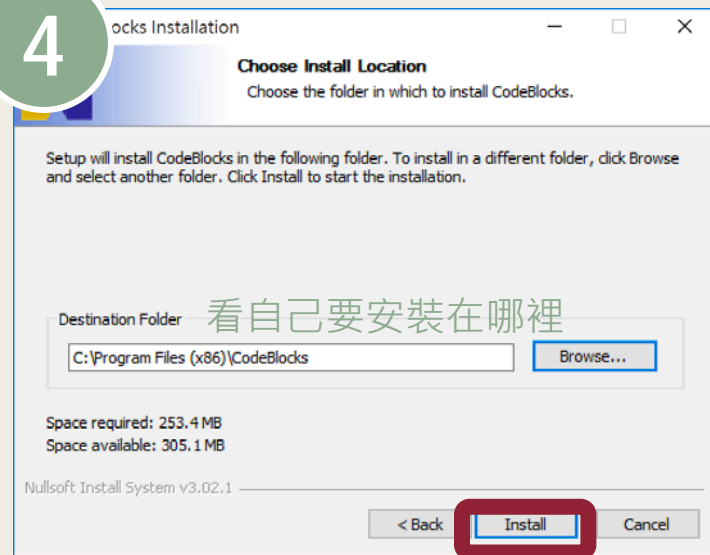
2



3

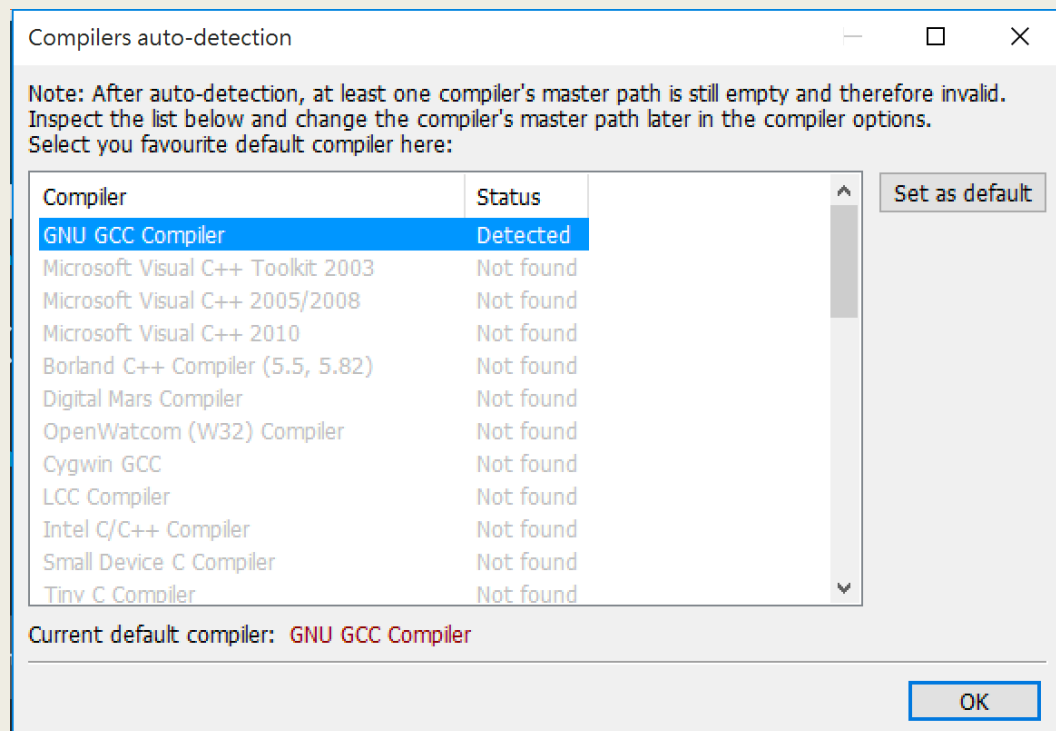


4

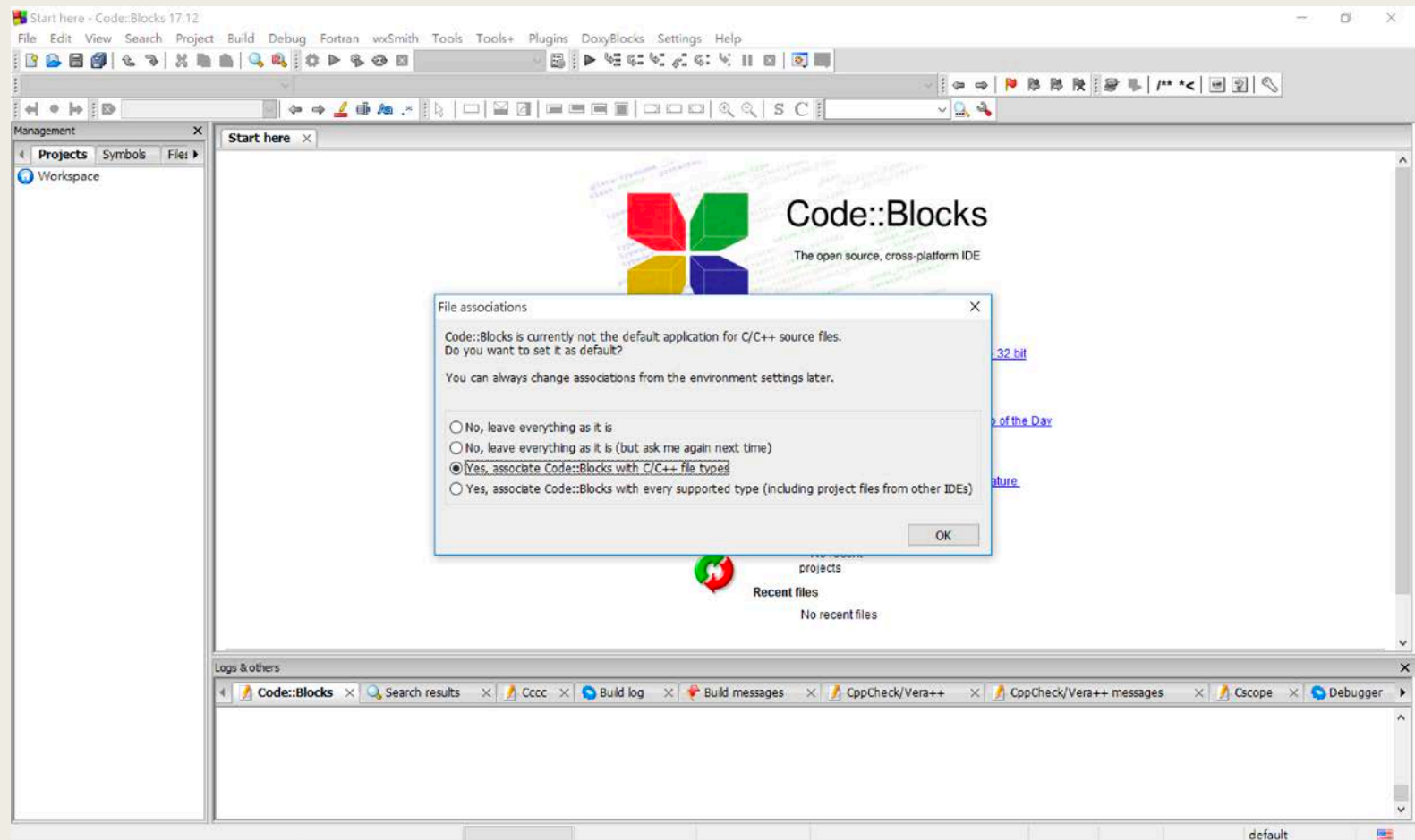


# How to use (1)

## ■ 打開Code Blocks

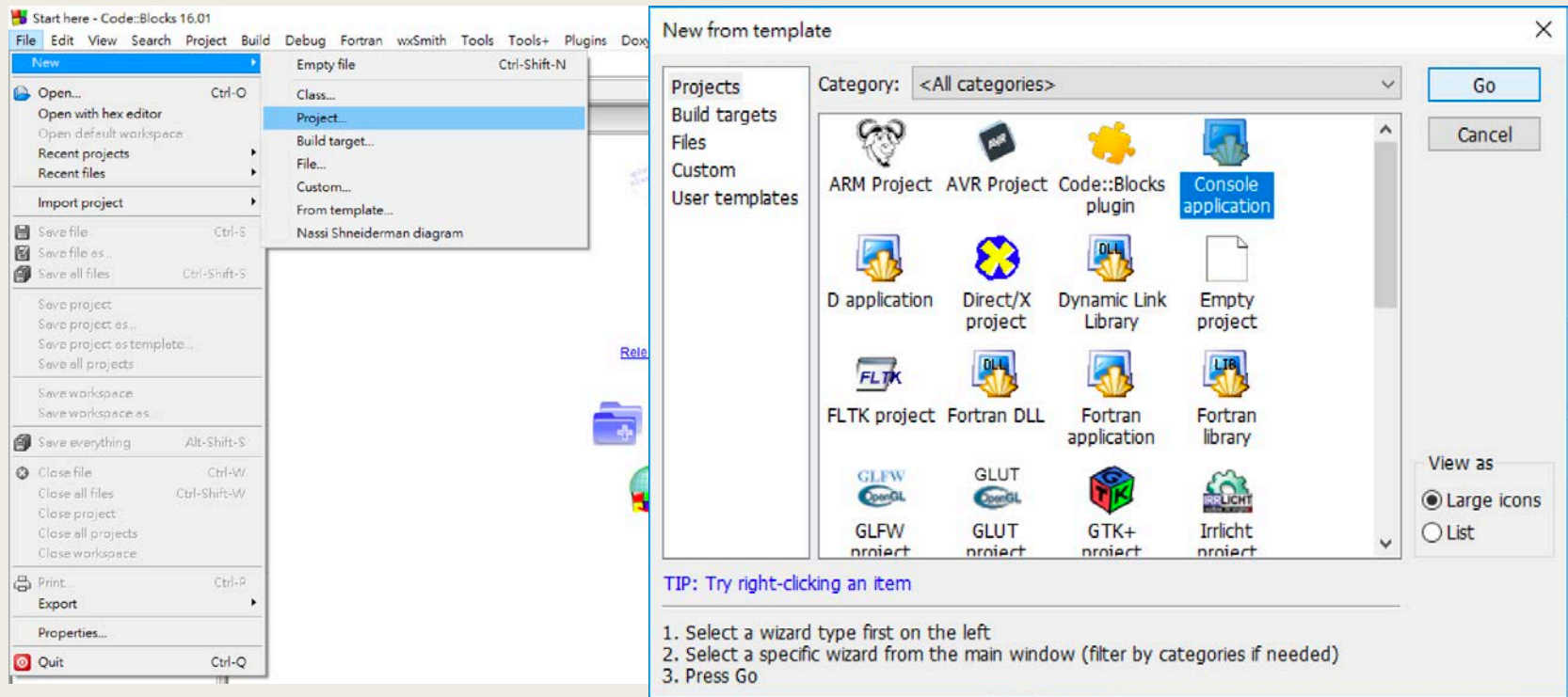


# How to use (2)



# How to use (3)

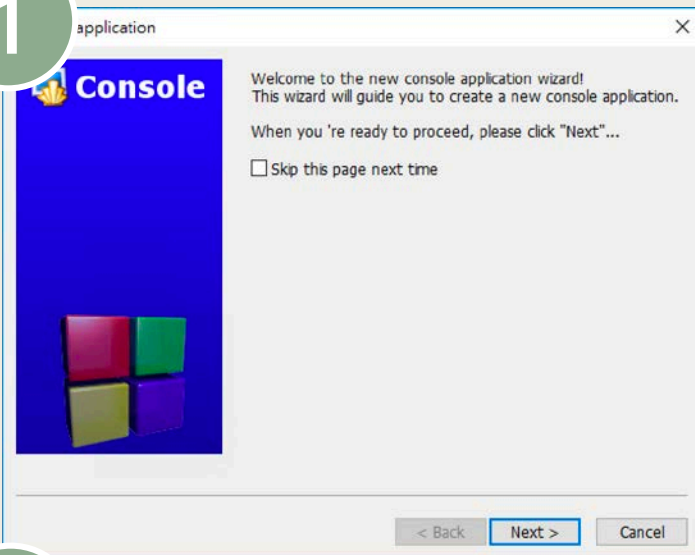
- File > New > Project > Console application



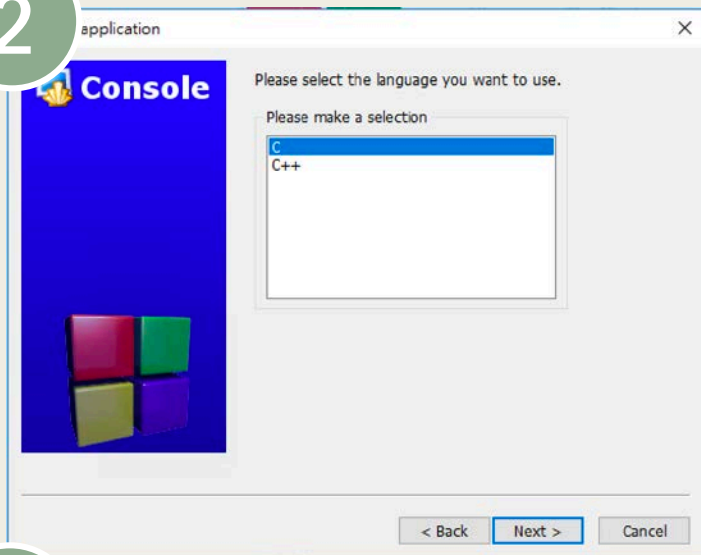


# How to use (4)

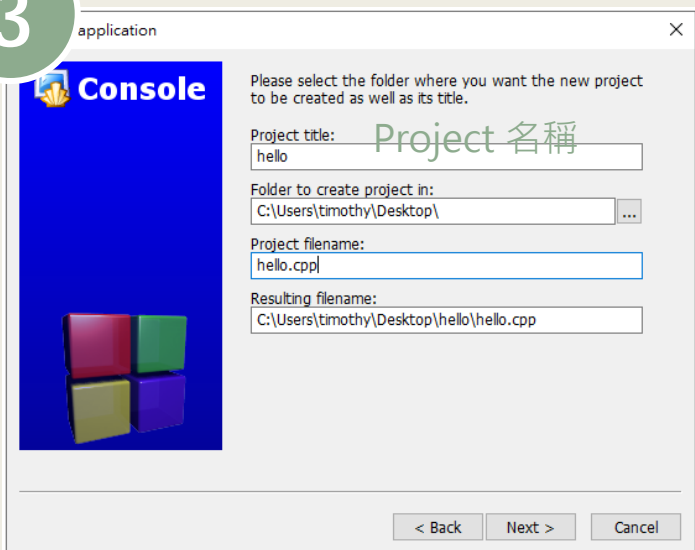
1



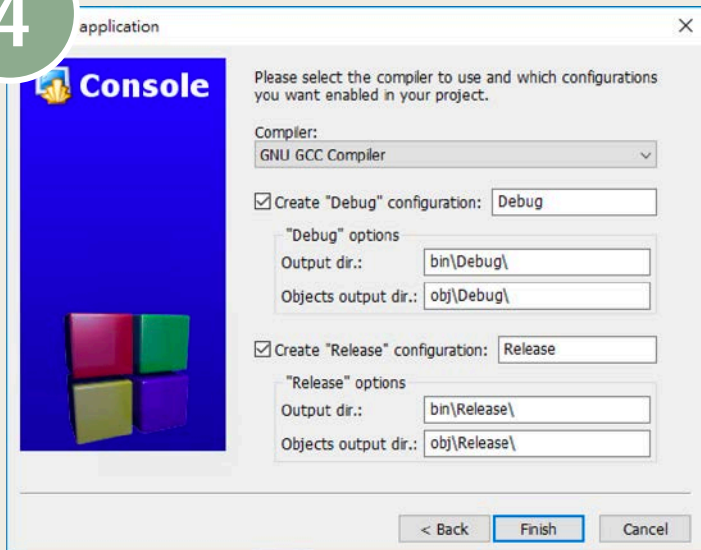
2



3

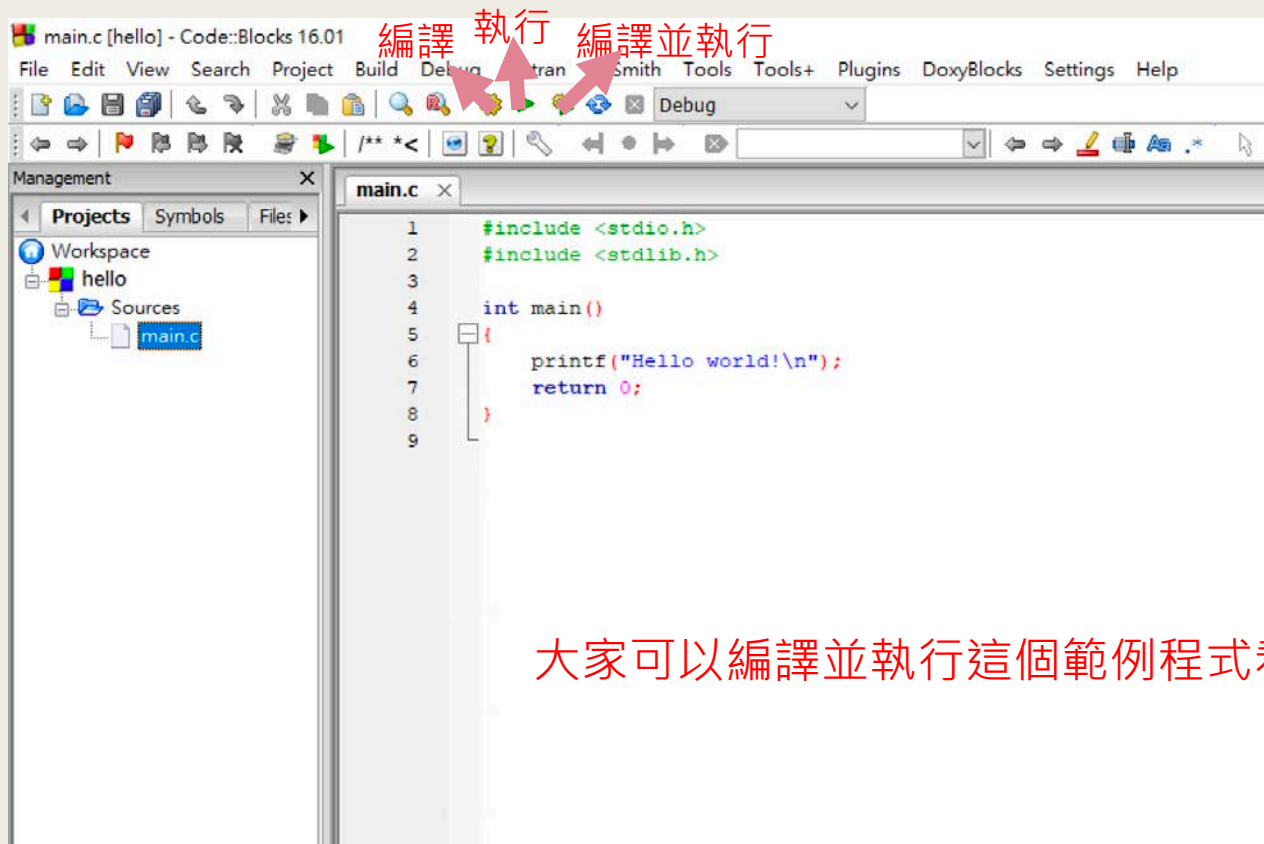


4



# How to use (5)

- 按旁邊的 main.c 就可以開始寫程式了



# 系計中帳號申請

- <https://account.cs.nctu.edu.tw/>

[課程需求(輔系、交換生、外系修課、外校暑修)]

1. 閱讀 **個資法同意書**
2. 列印 **帳號申請同意書**，經由課程教授簽名同意
3. 線上填寫帳號申請表
4. 盡速攜 **帳號申請同意書** 與學生證，於系計中 開放時間 到櫃台開通帳號
5. 帳號約於五分鐘後建立
6. 帳號期限: 課程帳號固定於每年7/31刪除 ( 交大電資學士班因修課較多，特例延長至預定畢業年度刪除 )

課程帳號 Course Account

# 上機練習 (1)

## ■ New E3 課程網頁內

The screenshot displays the National Taiwan University Digital Learning Platform. The top navigation bar is purple with the university's logo and name. A left sidebar contains a menu with categories: 課程資訊 (Course Information), 內容管理 (Content Management), and 評量管理 (Assessment Management). Under 課程資訊, there are links for 課程綱要 (Course Syllabus), 成員 (Members), 公告列表 (Announcement List), and 我的郵件 (My Mail). Under 內容管理, there is a link for 大綱管理 (Syllabus Management), which is currently selected. Under 評量管理, there are links for 成績管理 (Grade Management) and 配分設定 (Weight Setting). The main content area shows the course title 【107下】1190資料結構與物件導向程式設計 (Data Structures and Object-Oriented Programming) and a list of folders: Slides 2019/2/18, Slides 2019/3/4, and 2019/3/4 Practice. The 2019/3/4 Practice folder is highlighted with a red box and a green arrow pointing to it.

課程資訊

- 課程綱要
- 成員
- 公告列表
- 我的郵件

內容管理

- 大綱管理**
- 教材管理
- 作業管理
- 討論區管理
- 試卷管理
- 題庫維護
- 分組管理

評量管理

- 成績管理
- 配分設定

【107下】1190資料結構與物件導向程式設計  
Programming

- Slides 2019/2/18
- Slides 2019/3/4
- 2019/3/4 Practice**

TA Courses

考試時間到才會開啟，  
10分鐘內下載完畢

遲到超過10分鐘，  
該次以0分計

# 上機練習 (1)

三 國立交通大學 數位教學平台

課程資訊

- 課程綱要
- 成員
- 公告列表
- 我的郵件

內容管理

- 大綱管理
- 教材管理
- 作業管理
- 討論區管理
- 試卷管理
- 題庫維護
- 分組管理

評量管理

- 成績管理
- 配分設定

## 【107上】1189計算機概論與程式設計 Int

### Quiz1

Quiz1\_Q1\_sample.c

Quiz1\_Q2\_sample.c

Quiz1.pdf

下載資料夾

編修



點擊下載

下載完記得先  
解壓縮，再開  
始編寫程式

# 考試內容

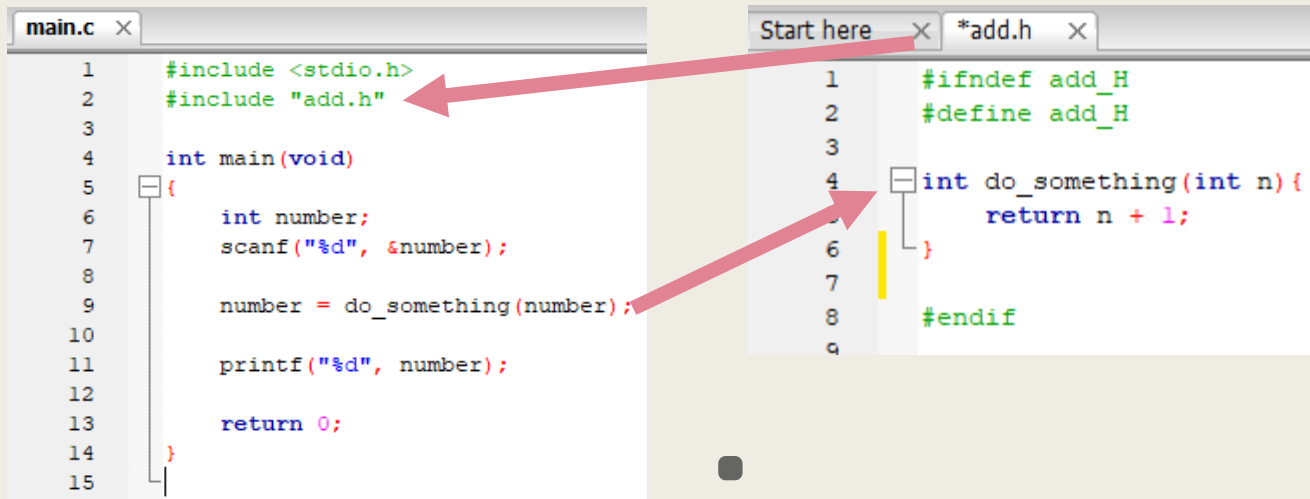
- 一般上機考題大約1~2題
- 期中期末考題遠大於2題
- 一般考題及期中期末考中，某些題會與課本內的練習題有87%相似

# 考試規則(本次練習不計分)

1. 可以翻閱你覺得有幫助的書、講義 (教室會斷網!!)
2. 不得作弊，違者依校規論處
3. 若有格式錯誤的情形，會將該題分數  $\times 0.8$  計算
4. 本次練習都只需繳交 **Header file**  
不得更改 `main_Q1.c` 中任何內容  
繳交時請自行將 Header file 檔名改為 學號－題號  
如：0756704-1.h  
註：不需變更 `ifndef`, `define`, `include` 的檔名
5. 總共只有一次繳交機會，請務必確認格式正確後，再舉手找助教繳交。
6. 行動電子產品 (手機、平板電腦等等)請收在包包內，不要放在桌面上或使用它。

# Header file

- Header file contains function declarations and macro definitions to be shared between several source files.
- For example



The image shows two code editors side-by-side. The left editor, titled 'main.c', contains the following code:

```
1  #include <stdio.h>
2  #include "add.h"
3
4  int main(void)
5  {
6      int number;
7      scanf("%d", &number);
8
9      number = do_something(number);
10
11     printf("%d", number);
12
13     return 0;
14 }
15
```

The right editor, titled '\*add.h', contains the following code:

```
1  #ifndef add_H
2  #define add_H
3
4  int do_something(int n){
5      return n + 1;
6  }
7
8  #endif
9
```

Two red arrows indicate the relationship: one arrow points from the `#include "add.h"` line in `main.c` to the header file, and another arrow points from the `do_something` function call in `main.c` to the function definition in `*add.h`.

- In Header file (\*.h) , you can add any function or declaration **except** main function



# Practice 1 – GCD

## Description

You should input a string in the terminal without duplicated alphabet. The program will stop reading the string when you press Enter. The string should be stored in the linked list. After the string has been stored in the linked list, find the index of the character within the linked list and find the length of the string.

# Practice 1 – GCD

## Description

You should implement with the function:

```
int reduce ( int numerator, int denominator);
```

and the numerator and denominator are the numerator and denominator of a fraction. The function will return the largest GCD number of numerator and denominator.

# Practice 1 – GCD

You should **implement** the “reduce” function within the header file and include it in “main\_Q1.c”.

gcd.h

```
#ifndef GCD_H
#define GCD_H
int reduce ( ... )
{ ... }
#endif
```



main\_Q1.c

```
#include <stdio.h>
#include "gcd.h"
int main (void) {
    ...
    reduce(...)
    ...
}
```

Please **ONLY** complete the “gcd.h” file in the folder

You should **NOT** modify “main\_Q1.c” file

Rename “gcd.h” with your student ID (ex:0756704.h) after finish

No need to hand in .c & .exe file

# Practice 1 – GCD

Sample Input 1

88/54

Sample Output 1

44/27

Sample Input 2

47/53

Sample Output 2

47/53

Q&A