

使用 **AutoGrading**

使用的好處

- 可以知道程式可不可以編譯
- 可以知道程式執行 Result 與 Expected Output 差異
- 可以知道錯在哪，能夠更快完成作業
- 可以知道本次作業大概可拿幾分

Enter your student ID : 0756079

AutoGrading for student 0756079

Student 0756079

[hw2a]

cfile : None

state : fail

fail_info : Can not find .c file

[hw2b]

cfile : source_file//0756079_hw2b.c

state : pass

[hw2c]

cfile : source_file//0756079_hw2c.c

state : pass

[hw2d]

cfile : source_file//0756079_hw2d.c

state : pass

[hw2e]

cfile : source_file//0756079_hw2e.c

state : fail

fail_info : pass ratio 0/2

Test Case #1 : input ['a'], expected output is ['Please enter a char:\nThe uppercase char is A.'] but got ['Please enter a char: The uppercase char is X']

Test Case #2 : input ['X'], expected output is ['Please enter a char:\nThe uppercase char is X.'] but got ['Please enter a char: The uppercase char is X']

[hw2f]

cfile : source_file//0756079_hw2f.c

state : fail

fail_info : pass ratio 2/3

Test Case #3 timeout error for input ['50.5\n-1']

Finish autoGrading, Your Score is 50.00 (Pass 3/6 questions)

使用前準備

- Windows 使用前需裝好 minGW，才有辦法幫你的.c檔編譯
 - 步驟一：下載安裝 minGW
 - 步驟二：將 minGW/bin/ 加入環境變數
- Mac OS 使用前需先裝好 Python 3，並 install 相關 package
 - 安裝 Python 3 請看 <https://www.jianshu.com/p/8256ba430be3>
 - 接著 pip3 install argparse
 - 接著 pip3 install simplejson

下載

到minGW 官網

<http://www.mingw.org/>

MinGW

Minimalist GNU for Windows

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Welcome to MinGW.org

Home of the MinGW and MSYS Projects

MinGW, a contraction of "Minimalist GNU for Windows", is a minimalist development environment for native Microsoft Windows applications.

MinGW provides a complete Open Source programming tool set which is suitable for the development of native MS-Windows applications, and which do not depend on any 3rd-party C-Runtime DLLs. (It **does** depend on a number of DLLs provided by Microsoft themselves, as components of the operating system; most notable among these is MSVCRT.DLL, the Microsoft C runtime library. Additionally, threaded applications **must** ship with a freely distributable thread support DLL, provided as part of MinGW itself).

MinGW compilers provide access to the functionality of the Microsoft C runtime and some language-specific runtimes. **MinGW**, being Minimalist, **does not, and never will, attempt to provide a POSIX runtime environment for POSIX application deployment on MS-Windows**. If you want POSIX application deployment on this platform, please consider [Cygwin](#) instead.

Primarily intended for use by developers working on the native MS-Windows platform, but also available for cross-hosted use, (see note below -- you may need to follow the "[read more](#)" link to see it), **MinGW** includes:

- A port of the GNU Compiler Collection (GCC), including C, C++, ADA and Fortran compilers;
- GNU Binutils for Windows (assembler, linker, archive manager)
- A command-line installer, with optional GUI front-end, (mingw-get) for MinGW and MSYS deployment on MS-Windows
- A GUI first-time setup tool (mingw-get-setup), to get you up and running with mingw-get.

MSYS, a contraction of "Minimal SYStem", is a Bourne Shell command line interpreter system. Offered as an alternative to Microsoft's cmd.exe, this provides a general purpose command line environment, which is particularly suited to use with **MinGW**, for porting of many Open Source applications to the MS-Windows platform: a light-weight fork of Cygwin-1.3. it includes a small selection of Unix

點選 Download 頁面

Search mingw-users

Choose Mail List:

MinGW-users ▼

 Search

Recent File Releases

- /Installer/mingw-get/catalogue/msys-package-list.xml.lzma
- /MinGW/Base/mpfr/mpfr-3.1.5/mpfr-3.1.5-2-mingw32-src.tar.xz
- /MinGW/Base/mpfr/mpfr-3.1.5/mpfr-3.1.5-2-mingw32-info.tar.xz
- /MinGW/Base/mpfr/mpfr-3.1.5/mpfr-3.1.5-2-mingw32-lic.tar.xz
- /MinGW/Base/mpfr/mpfr-3.1.5/mpfr-3.1.5-2-mingw32-doc.tar.xz
- /MinGW/Base/mpfr/mpfr-3.1.5/mpfr-3.1.5-2-

Download File List - MinGW - M

https://osdn.net/projects/mingw/releases/

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Project Description

MinGW: A native Windows port of the GNU Compiler Collection (GCC), with freely distributable import libraries and header files for building native Windows applications; includes extensions to the MSVC runtime to support C99 functionality. All of MinGW's software will execute on the 64bit Windows platforms.

System Requirements

Review

Operating System: Windows

4.0

★★★★☆

4 Reviews

Review this project

mingw-get-setup.exe (Date: 2017-09-06, Size: 91.00 KB)

Download Package list

MinGW Installation Manager (mingw-get) (1 items Show)

MinGW.org Binary Utilities (GNU binutils) (2 items Show)

MinGW.org Character Set Conversion API and Tools (GNU libiconv) (3 items Show)

點這

Package MinGW Installation M...

+

←

→

↺

https://osdn.net/projects/mingw/releases/p15522

☆

ABP5

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⋮

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MinGW - Minimalist GNU for Windows

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Project Description

MinGW: A native Windows port of the GNU Compiler Collection (GCC), with freely distributable import libraries and header files for building native Windows applications; includes extensions to the MSVC runtime to support C99 functionality. All of MinGW's software will execute on the 64bit Windows platforms.

System Requirements

Review

System requirement is not defined

4.0

★★★★☆

4 Reviews

Review this project

MinGW Installation M...

MinGW-Get Version 0.1

MinGW.org Binary Utili...

MinGW.org Character ...

MinGW.org Compiler ...

MinGW.org Integer Set...

MinGW.org Internation...

MinGW.org Multiple Pa...

MinGW Installation Manager (mingw-get) (1 items)

MinGW-Get Version 0.6.3 (Beta) (8 files) Show

Released at 2017-09-01 15:11

再點

System requirement is not defined

4.0
★★★★☆
4 Reviews

Review this project

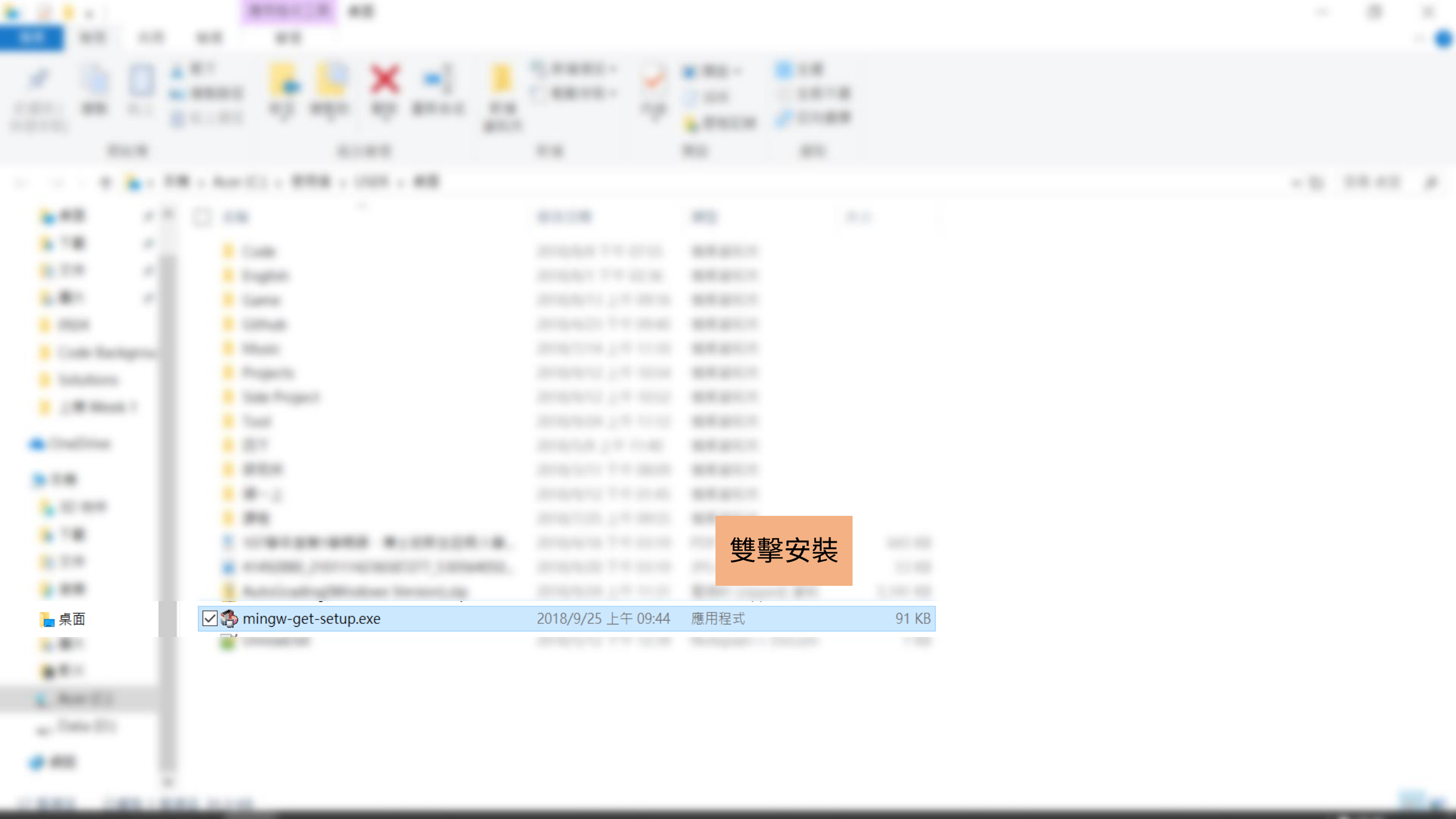
- MinGW Installation Manager
- MinGW-Get Version 0.6.3 (Beta)
- MinGW.org Binary Utilities
- MinGW.org Character Set
- MinGW.org Compiler
- MinGW.org Integer Set
- MinGW.org Internationalization
- MinGW.org Multiple Prerequisites
- MinGW.org Multiple Prerequisites
- MinGW.org Multiple Prerequisites
- MinGW.org POSIX Threads
- MinGW.org Windows
- MinGW.org Zlib File Compression

MinGW Installation Manager (mingw-get) MinGW-Get Version 0.6.3 (Beta) (8 files) Hide

Released at 2017-09-01 15:11

Name ^	Size ^	Hash	Date ^	Download count ^
mingw-get-0.6.3-mingw32-pre-20170905-1-bin.tar.xz	262.49 KB	Show	2017-09-06 00:24	70775
mingw-get-0.6.3-mingw32-pre-20170905-1-bin.zip	351.00 KB	Show	2017-09-06 00:24	2588
mingw-get-0.6.3-mingw32-pre-20170905-1-gui.tar.xz	63.08 KB	Show	2017-09-06 00:24	67692
mingw-get-0.6.3-mingw32-pre-20170905-1-lic.tar.xz	12.00 KB	Show	2017-09-06 00:24	68443
mingw-get-0.6.3-mingw32-pre-20170905-1-src.tar.xz	345.03 KB	Show	2017-09-06 00:24	104
mingw-get-setup-0.6.3-mingw32-pre-20170905-1-dll.tar.xz	59.73 KB	Show	2017-09-06 00:24	68508
mingw-get-setup-0.6.3-mingw32-pre-20170905-1-xp.tar.xz	49.91 KB	Show	2017-09-06 00:24	68396
mingw-get-setup.exe	91.00 KB	Show	2017-09-06 00:30	93847

再點



雙擊安裝

<input checked="" type="checkbox"/>		mingw-get-setup.exe	2018/9/25 上午 09:44	應用程式	91 KB
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安裝

MinGW Installation Manager Setup Tool

mingw-get version 0.6.3-pre-20170905-1



Written by Keith Marshall

Copyright © 2009-2013, MinGW.org Project

<http://mingw.org>

This is free software; see the product documentation or source code, for copying and redistribution conditions. There is NO WARRANTY; not even an implied WARRANTY OF MERCHANTABILITY, nor of FITNESS FOR ANY PARTICULAR PURPOSE.

This tool will guide you through the first time setup of the MinGW Installation Manager software (mingw-get) on your computer; additionally, it will offer you the opportunity to install some other common components of the MinGW software distribution.

After first time setup has been completed, you should invoke the MinGW Installation Manager directly, (either the CLI mingw-get.exe variant, or its GUI counterpart, according to your preference), when you wish to add or to remove components, or to upgrade your MinGW software installation.

View Licence

Install

Cancel

mingw-get version 0.6.3-pre-20170905-1



Step 1: Specify Installation Preferences

Installation Directory

C:\MinGW

Change

If you elect to change this, you are advised to avoid any choice of directory which includes white space within the absolute representation of its path name.

User Interface Options

Both command line and graphical options are available. The command line interface is always supported; the alternative only if you choose the following option to ...

☒ ... also install support for the graphical user interface.

Program shortcuts for launching the graphical user interface should be installed ...

☒ ... just for me (the current user), or ... ☐ ... for all users * ...

☒ ... in the start menu, and/or ... ☒ ... on the desktop.

* selection of this option requires administrative privilege.

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Continue

Cancel

mingw-get version 0.6.3-pre-20170905-1



Step 2: Download and Set Up MinGW Installation Manager

Download Progress

Catalogue update completed; please check 'Details' pane for errors.

Processed 113

of

113 items

:

100 %



Details

```
mingw-get: *** INFO *** setup: unpacking mingw-get-setup-0.6.3-mingw32-pre-20170905-1-xm1.tar.xz
mingw-get: *** INFO *** setup: updating installation database
mingw-get: *** INFO *** setup: register mingw-get-0.6.3-mingw32-pre-20170905-1-bin.tar.xz
mingw-get: *** INFO *** setup: register mingw-get-0.6.3-mingw32-pre-20170905-1-gui.tar.xz
mingw-get: *** INFO *** setup: register mingw-get-0.6.3-mingw32-pre-20170905-1-lic.tar.xz
mingw-get: *** INFO *** setup: installation database updated
```

View Licence

Continue

Quit

Basic Setup All Packages	Package	Installed Version	Repository Version	Description
	<input type="checkbox"/> mingw-developer-toolkit-bin		2013072300	An MSYS Installation for MinGW Developers (meta)
	<input type="checkbox"/> mingw32-base-bin		2013072200	A Basic MinGW Installation
	<input type="checkbox"/> mingw32-gcc-ada-bin		6.3.0-1	The GNU Ada Compiler
	<input type="checkbox"/> mingw32-gcc-fortran-bin		6.3.0-1	The GNU FORTRAN Compiler
	<input checked="" type="checkbox"/> mingw32-gcc-g++-bin		6.3.0-1	The GNU C++ Compiler
	<input type="checkbox"/> mingw32-gcc-objc-bin		6.3.0-1	The GNU Objective-C Compiler
	<input type="checkbox"/> msys-base-bin		2013072300	A Basic MSYS Installation (meta)

General Description Dependencies Installed Files Versions

This package provides the MinGW implementation of the GNU C++ language compiler.

This is an optional component of the MinGW Compiler Suite; you require it only if you wish to compile programs written in the C++ language.

MinGW Installation Manager

Installation Package Settings

Help

Basic Setup

All Packages

Package	Installed Version	Repository Version	Description
<input type="checkbox"/> mingw-developer-toolkit-bin		2013072300	An MSYS Installation for MinGW Developers (meta)
<input type="checkbox"/> mingw32-base-bin		2013072200	A Basic MinGW Installation
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<input checked="" type="checkbox"/> mingw32-gcc-g++-bin		6.3.0-1	The GNU C++ Compiler
<input type="checkbox"/>		6.3.0-1	The GNU Objective-C Compiler
<input type="checkbox"/>		2013072300	A Basic MSYS Installation (meta)

Unmark

Mark for Installation

Mark for Reinstallation

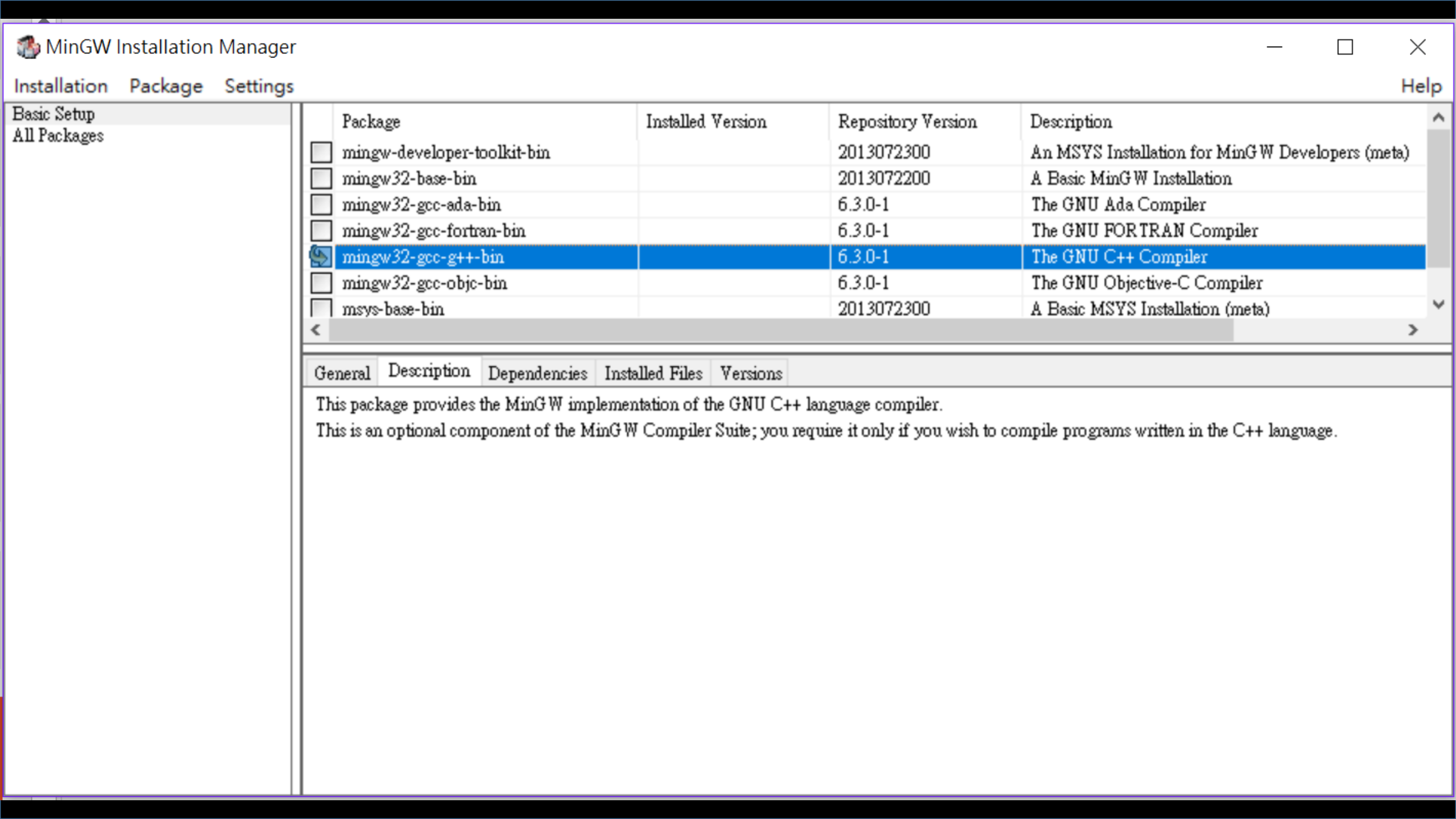
Mark for Upgrade

Mark for Removal

d Files Versions

ion of the GNU C++ language compiler.

ompiler Suite; you require it only if you wish to compile programs written in the C++ language.



Basic Setup
All Packages

Package	Installed Version	Repository Version	Description
<input type="checkbox"/> mingw-developer-toolkit-bin		2013072300	An MSYS Installation for MinGW Developers (meta)
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<input checked="" type="checkbox"/> mingw32-gcc-g++-bin		6.3.0-1	The GNU C++ Compiler
<input type="checkbox"/> mingw32-gcc-objc-bin		6.3.0-1	The GNU Objective-C Compiler
<input type="checkbox"/> msys-base-bin		2013072300	A Basic MSYS Installation (meta)

General Description Dependencies Installed Files Versions

This package provides the MinGW implementation of the GNU C++ language compiler.
This is an optional component of the MinGW Compiler Suite; you require it only if you wish to compile programs written in the C++ language.

- Update Catalogue
- Mark All Upgrades
- Apply Changes
- Quit Alt+F4

Package	Installed Version	Repository Version	Description
mingw-developer-toolkit-bin		2013072300	An MSYS Installation for MinGW Developers (meta)
mingw32-base-bin		2013072200	A Basic MinGW Installation
mingw32-gcc-ada-bin		6.3.0-1	The GNU Ada Compiler
mingw32-gcc-fortran-bin		6.3.0-1	The GNU FORTRAN Compiler
<input checked="" type="checkbox"/> mingw32-gcc-g++-bin		6.3.0-1	The GNU C++ Compiler
<input type="checkbox"/> mingw32-gcc-objc-bin		6.3.0-1	The GNU Objective-C Compiler
<input type="checkbox"/> msys-base-bin		2013072300	A Basic MSYS Installation (meta)

General Description Dependencies Installed Files Versions

This package provides the MinGW implementation of the GNU C++ language compiler.
This is an optional component of the MinGW Compiler Suite; you require it only if you wish to compile programs written in the C++ language.



Basic Setup

All Packages

Package

Installed Version

Repository Version

Description

Schedule of Pending Actions

Okay to proceed?

The package changes itemised below will be implemented when you choose "Apply"

Apply

Defer

Discard

0 installed packages will be removed

0 installed packages will be upgraded

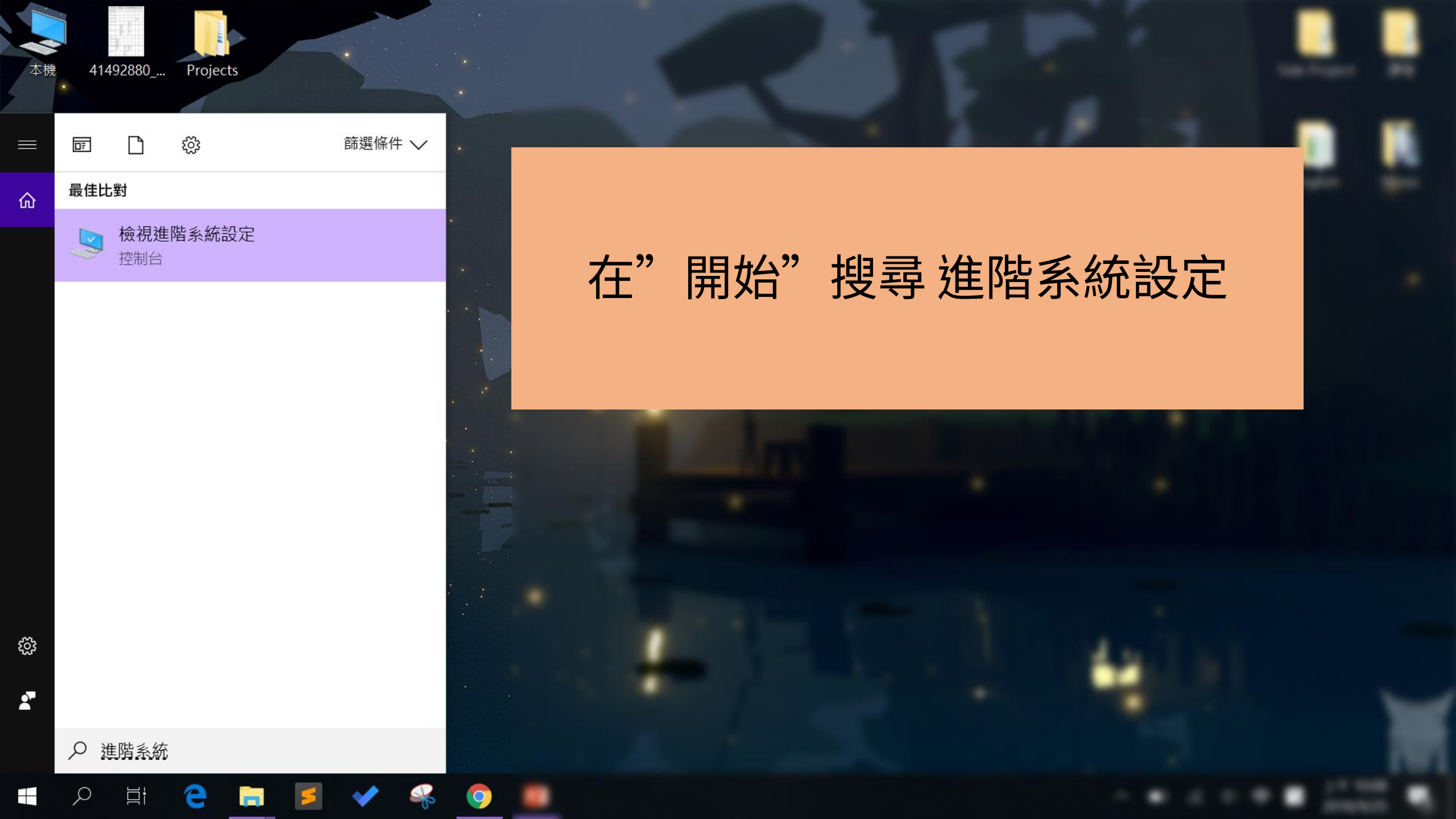
1 new/upgraded package will be installed

gcc-c++-6.3.0-1-mingw32-bin.tar.xz

An MSYS Installation for MinGW Developers (meta)
A Basic MinGW Installation
The GNU Ada Compiler
The GNU FORTRAN Compiler
The GNU C++ Compiler
The GNU Objective-C Compiler
A Basic MSYS Installation (meta)

to compile programs written in the C++ language.

加入環境變數(Path) (Win 10為例)



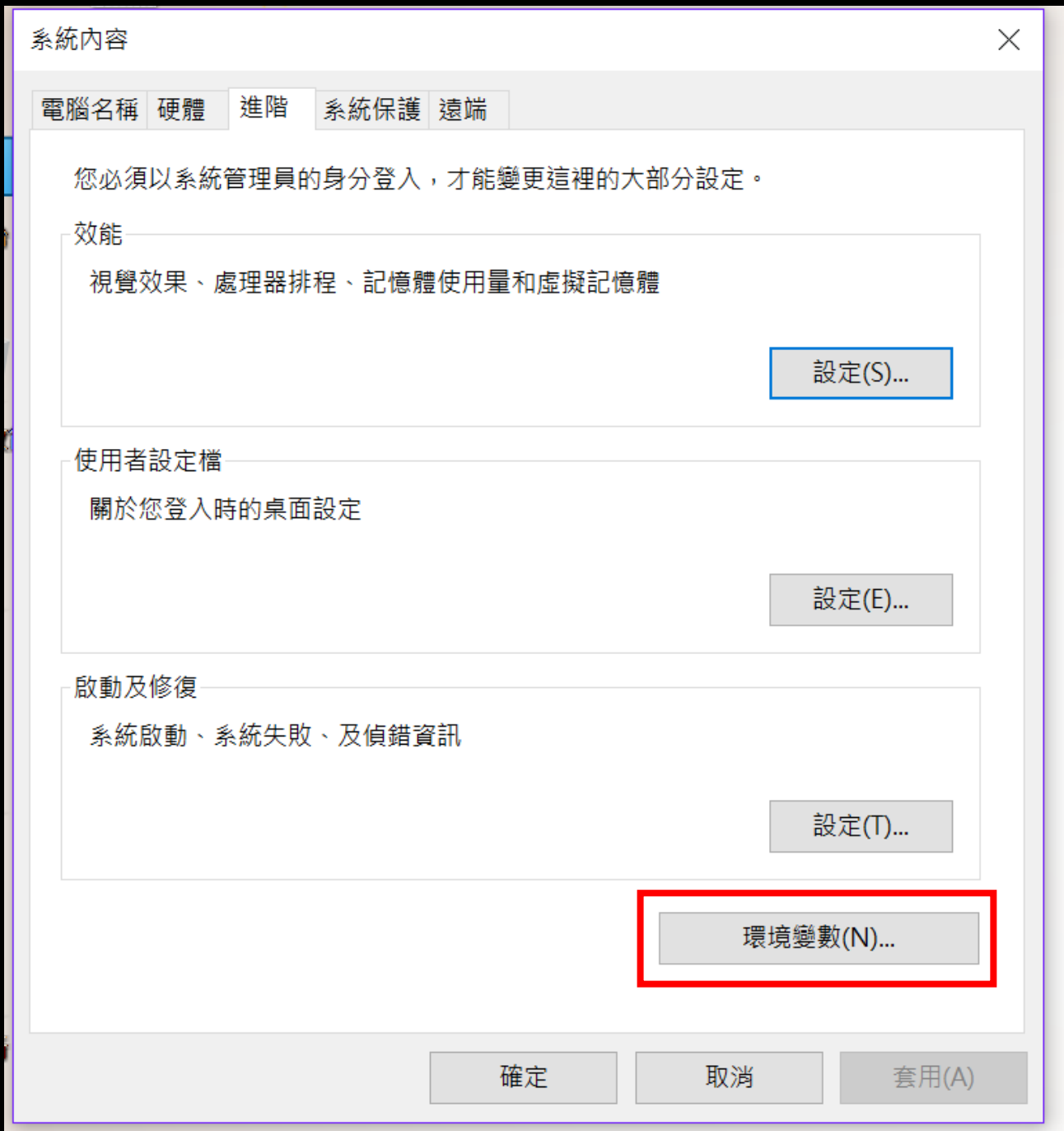
在” 開始” 搜尋 進階系統設定

篩選條件

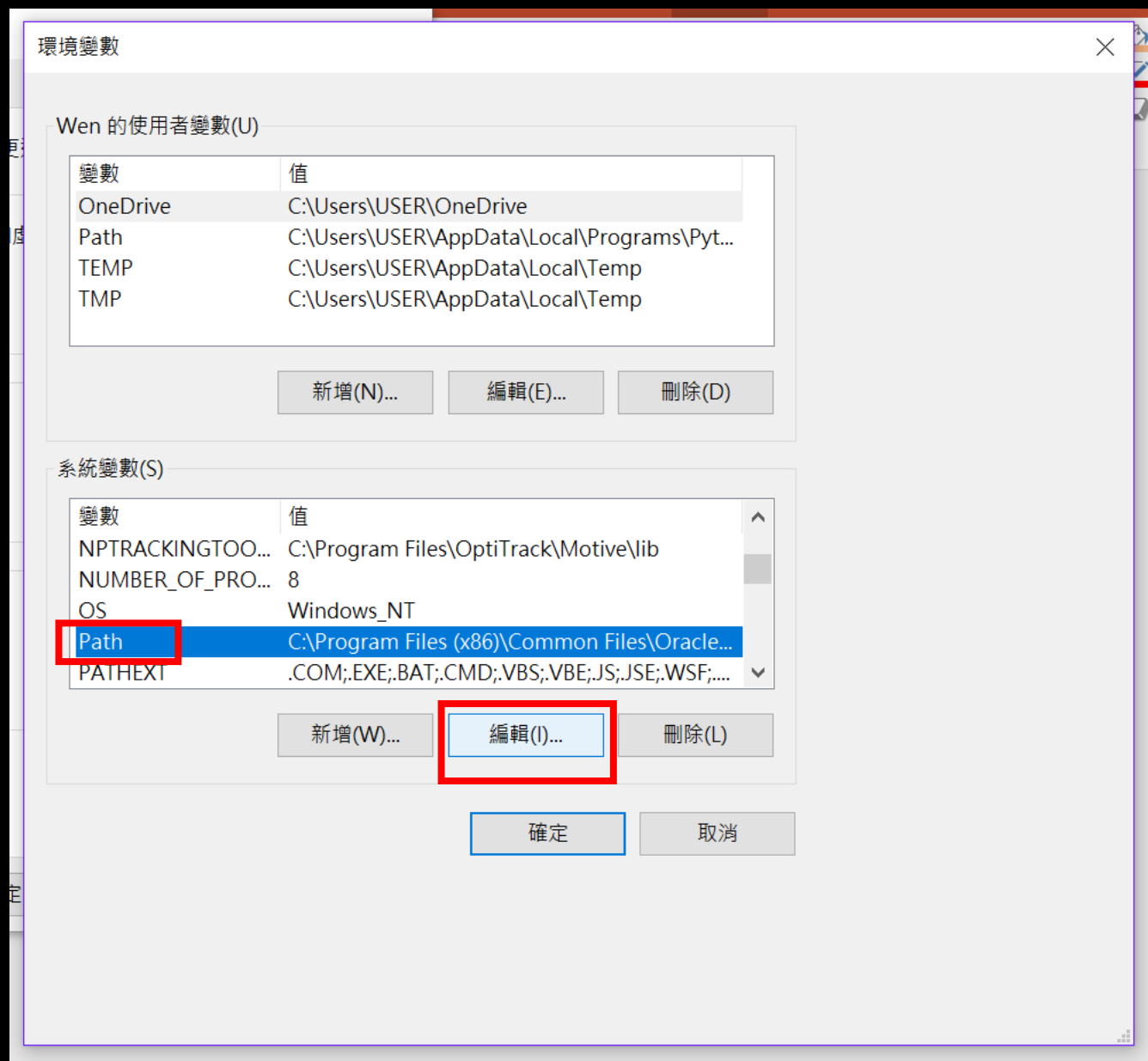
最佳比對

檢視進階系統設定
控制台

進階系統



選 環境變數



選 path, 按編輯

編輯環境變數



C:\WINDOWS\System32\OpenSSH\
D:\DLL
C:\Program Files (x86)\CMake\bin
D:\OpenCV\opencv\build\x64\vc15\bin
C:\Users\USER\AppData\Local\Programs\Python\Python36\Scripts\
C:\Users\USER\AppData\Local\Programs\Python\Python36\
C:\Python3.6\Scripts\
C:\Python3.6\
C:\Users\USER\AppData\Local\Microsoft\WindowsApps
C:\Users\USER\AppData\Local\atom\bin
C:\Users\USER\AppData\Roaming\npm
C:\Program Files (x86)\Graphviz2.38\bin
D:\Aliases
C:\Users\USER\AppData\Local\Microsoft\WindowsApps
C:\OpenCV320_Contrib\bin
%FC2PATH%
%FC2PATH%\vs2013
%FC2PATH%\vs2015
%FC2PATH%\vs2013
C:\Program Files\Point Grey Research\Spinnaker\bin64\vs2015
C:\Program Files\Point Grey Research\Spinnaker\bin\vs2015
C:\MinGW\bin

新增(N)

編輯(E)

瀏覽(B)...

刪除(D)

上移(U)

下移(O)

編輯文字(T)...

確定

取消

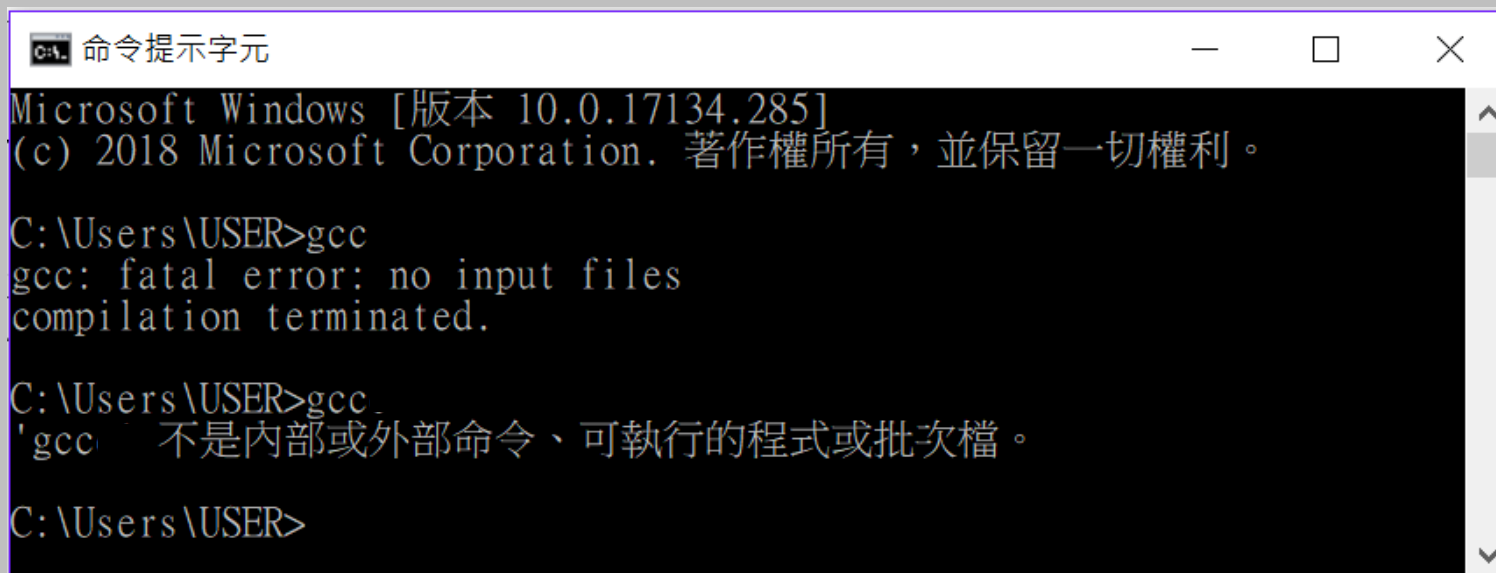
新增
C:\MinGW\bin

winGW 安裝完成！

在 cmd 打 gcc 測試

(如何打開 cmd：在「開始」 搜尋「命令提示字元」)

加入 Path 前



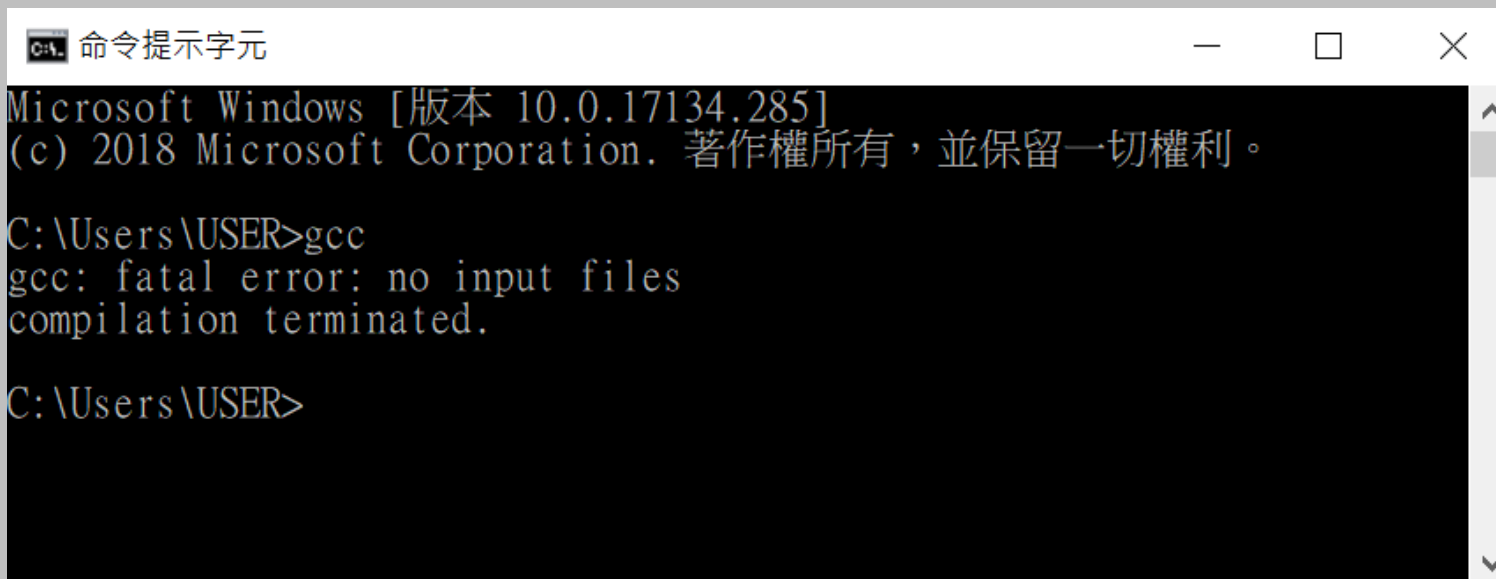
```
命令提示字元
Microsoft Windows [版本 10.0.17134.285]
(c) 2018 Microsoft Corporation. 著作權所有，並保留一切權利。

C:\Users\USER>gcc
gcc: fatal error: no input files
compilation terminated.

C:\Users\USER>gcc
'gcc' 不是內部或外部命令、可執行的程式或批次檔。

C:\Users\USER>
```

加入 Path 後



```
命令提示字元
Microsoft Windows [版本 10.0.17134.285]
(c) 2018 Microsoft Corporation. 著作權所有，並保留一切權利。

C:\Users\USER>gcc
gcc: fatal error: no input files
compilation terminated.

C:\Users\USER>
```

使用說明 (Windows Version)

1. 解壓縮 AutoGrading_WindowsVersion.zip
2. 將你的.c 檔案 (記得命名好) 複製到 autoGrading\source_file\裡
3. 執行 autoGrading\autoGrading.exe
4. 輸入學號

Enter your student ID : 0756079

AutoGrading for student 0756079

Student 0756079

[hw2a]

cfile : source_file//0756079_hw2a.c

state : pass

[hw2b]

cfile : source_file//0756079_hw2b.c

state : pass

[hw2c]

cfile : source_file//0756079_hw2c.c

state : pass

[hw2d]

cfile : source_file//0756079_hw2d.c

state : pass

[hw2e]

cfile : source_file//0756079_hw2e.c

state : pass

[hw2f]

cfile : source_file//0756079_hw2f.c

state : pass

Finish autoGrading, Your Score is 100.00 (Pass 6/6 questions)

使用說明 (Mac OS Version)

1. 解壓縮 AutoGrading_MacOSVersion).zip
2. 將你的.c 檔案 (記得命名好) 複製到 autoGrading\source_file\裡
3. 在 command line 執行 python3 autoGrading.py
4. 輸入學號