

## Microsoft Visual Studio Express 2012 Setup for C

I think it is best for students to have social interaction in the CS lab; however, some people find it easier to use the Microsoft Visual Studio development tools from their home Microsoft PC and then use ssh to move it to CS servers.

### 1. Downloading Microsoft Visual Studio Express 2012 for Windows Desktop:

- google microsoft visual studio express for windows desktop
- Download from the Microsoft web site. (There are other sites which will try to trick you so that they can drop viruses or spyware on your machine.)
- There are some differences in the various versions.
- Download whichever product is suitable for your system at home

### 2. Open New Project

- > Templates > Visual C++ > Win32
  - > Win 32 Console Application
    - > Name: *cs1713proj0*
    - > Create Directory for Project – check
    - > Press OK button.
  - > In the wizard, press Next button.
    - > Uncheck Precompiled Header
    - > Uncheck Security Development Lifecycle (SDL) checks (this isn't on the screen for VS 8)
    - > Press Finish button.

### 3. Set up configuration information

- > Project > *cs1713proj0* Properties
  - > Configuration Properties
    - > Linker > General > Enable Incremental Linking – No (/INCREMENTAL:NO)
    - > Press OK button

### 4. Set up indentation for Visual Studio

- > Tools > Options
  - > Text Editor > All Languages > Tabs
    - > Indenting – Smart
    - > Tab Size – 4
    - > Indent Size – 4

> check Insert Spaces

#### 5. Add your .c source file

>select Solution Explorer tab

> right click on Source Files

> Add New Item

> select C++ File

> Name: *cs1713p0.c* (very important that you specify .c)

> press ADD button

At the top of your file (before other include files), specify:

```
#define _CRT_SECURE_NO_WARNINGS 1
```

#### 6. Remove the .cpp file

> select Solution Explorer tab

> right click on *cs1713proj0.cpp* (very important that you select the .cpp file)

> select remove

> Press Delete button in the confirmation window

#### 7. Command arguments can be set here:

If still on Solution Explorer Tab:

> right click on your *cs1713* project

> Configuration Properties

> Debugging > Command Arguments – *set to whatever is needed* (See specifying data files)

If not on Solution Explorer Tab:

> Project > *cs1713proj0* Properties

> Configuration Properties

> Debugging > Command Arguments – *set to whatever is needed*

8. To avoid losing the console window, include a Breakpoint near the end of your code and at any program exits.

#### 9. To compile and execute your code:

> Press the green arrow (which is right below the menu items).

> VS will execute your code and stop at the first breakpoint.

> You can continue by using the green arrow or one of the function keys.

10. Specifying input data files. Assuming you want to pass in a data file, you must specify command arguments and place the data in the directory used by Visual Studio:

- o Place your data file in your project directory. This is the same place where the .c source is located.

example: C:\Users\larry\Documents\Visual Studio 2013\Projects\cs1713proj0\cs1713proj0

- o If you are using stdin, specify the following in the command arguments (see #7 above):

< *fileName.txt*

- o If you are using command switches, specify something like the following in the command arguments (see #7 above):

-i *fileName.txt*

11. Specifying that you want the output to go to a file. By default, output directed to a file will be placed in the directory used by Visual Studio for you .c source file.

- o If you are writing to stdout, specify the following in the command arguments (see #7 above):

> *outputFileName.txt*

12. To increase the width of the console window:

- > Once the console window displays (you may want a break point in your code so that it doesn't disappear), click the top left corner of the console window.

- > Select **Properties**

- > Select the **Layout** tab

- > Change the Screen Buffer Size to 120

- > Change the Window Size to 120