

Assignment 18 requires you to write a program in C++. To complete the assignment you will first need to (1) install a C/C++ compiler, (2) install a C/C++ integrated development environment (IDE), and (3) install the software distribution for this course.

1. Install a C/C++ compiler.

The mandatory integrated development environment (IDE) is the latest version of CLion from JetBrains. This installation process allows you to use write both C and C++ programs, and is identical to the installation process for the data structures course CoSc 320.

*For Windows users*

See [here](#) for how to install the MinGW C++ compiler. The recommended installer is MinGW-w64.

*For Mac users*

The C++ compiler comes with the Xcode development system, which you can get free from the Apple app store. Download and install Xcode. Open Xcode and allow the IDE to install the command line tools. Quit Xcode and do not use it to write your C++ programs.

2. Install a C/C++ Integrated Development Environment (IDE).

We will use an IDE from JetBrains called CLion. Apply for a free student license of CLion from JetBrains.

<https://www.jetbrains.com/student/>

Use your Pepperdine email address for the license. Download the trial version of the CLion app, and register it with your student license.

*For Windows users*

See the above link in Step 1 for setting up the tool chain. In the CLion Setup under Installation Options, check Add launchers dir to the PATH, and check all the Create Associations boxes.

3. Install the software distribution for this course.

- Download the following software distribution

<http://www.cslab.pepperdine.edu/warford/cosc450/cosc450CppDistr.zip>

which contains all the C++ programs for this course.

- Open `cosc450CppDistr` in CLion.

- Open the `CMakeLists.txt` file.

- Delete all the text in the `CMakeLists.txt` file. Copy the content of the following document and paste it into the `CMakeLists.txt` file.

<http://www.cslab.pepperdine.edu/warford/cosc450/CMakeLists.html>

- After pasting the content, click Reload changes.