CS1428
Foundation of Computer Science

Lecture 1.1: Installing CodeBlocks

What is CodeBlocks?

- An Integrated Development Environment is the software that we use to write software.

- Each IDE is actually a collection of different programs.

- CodeBlocks is free and available on all on-campus CS lab computers.

Where is CodeBlocks?

- https://www.codeblocks.org/downloads/

- Click "Download the binary release"

- Windows Users: click either source for **codeblocks-20.03mingw-setup.exe**

- Mac Users: click either source for **CodeBlocks-13.12-mac.zip**

- Linux Users: install Codeblocks through your **Software Manager**

Windows Download

Microsoft Windows

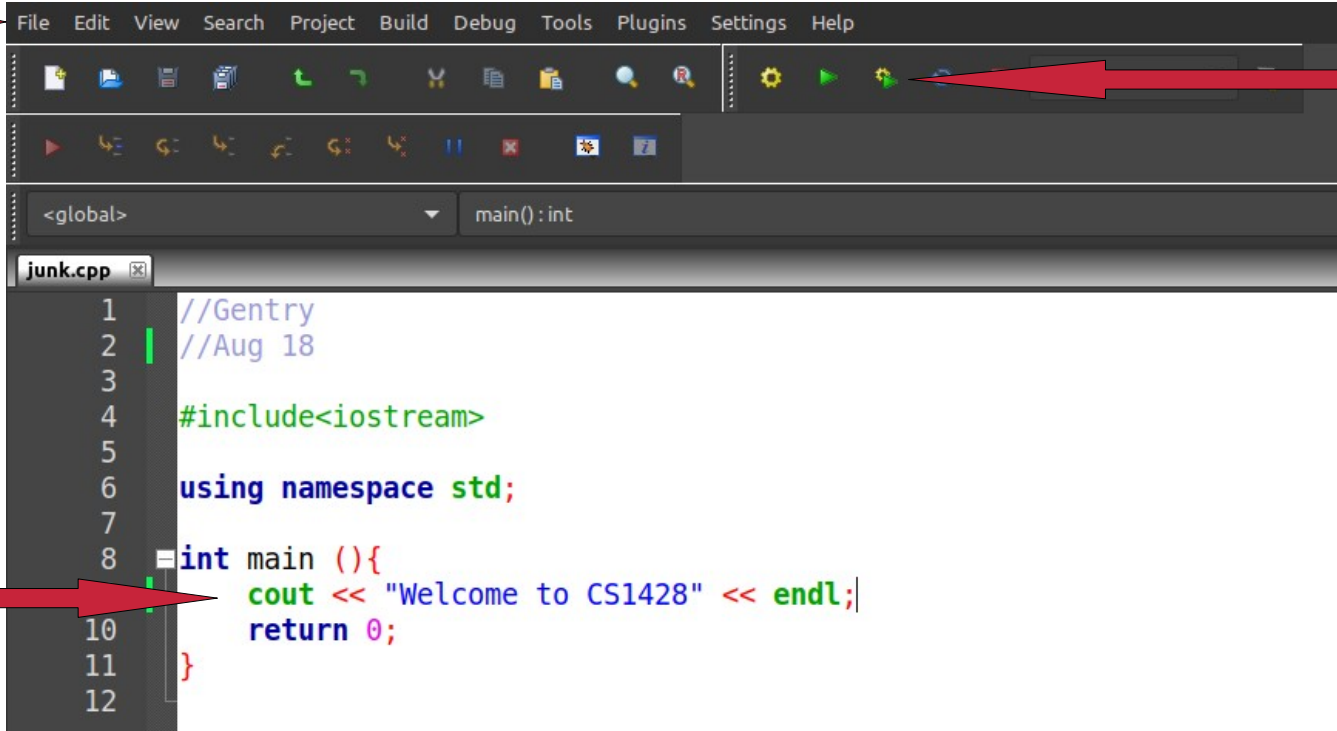| File	Download from
codeblocks-20.03-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03-setup-nonadmin.exe	FossHUB or Sourceforge.net
codeblocks-20.03-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03mingw-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03mingw-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-setup-nonadmin.exe	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03mingw-32bit-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03mingw-32bit-nosetup.zip	FossHUB or Sourceforge.net

NOTE: The codeblocks-20.03-setup.exe file includes Code::Blocks with all plugins. The codeblocks-20.03-setup-nonadmin.exe file is provided for convenience to users that do not have administrator rights on their machine(s).

NOTE: The codeblocks-20.03mingw-setup.exe file includes additionally the GCC/G++/GFortran compiler and GDB debugger from **MinGW-W64 project** (version 8.1.0, 32/64 bit, SEH).
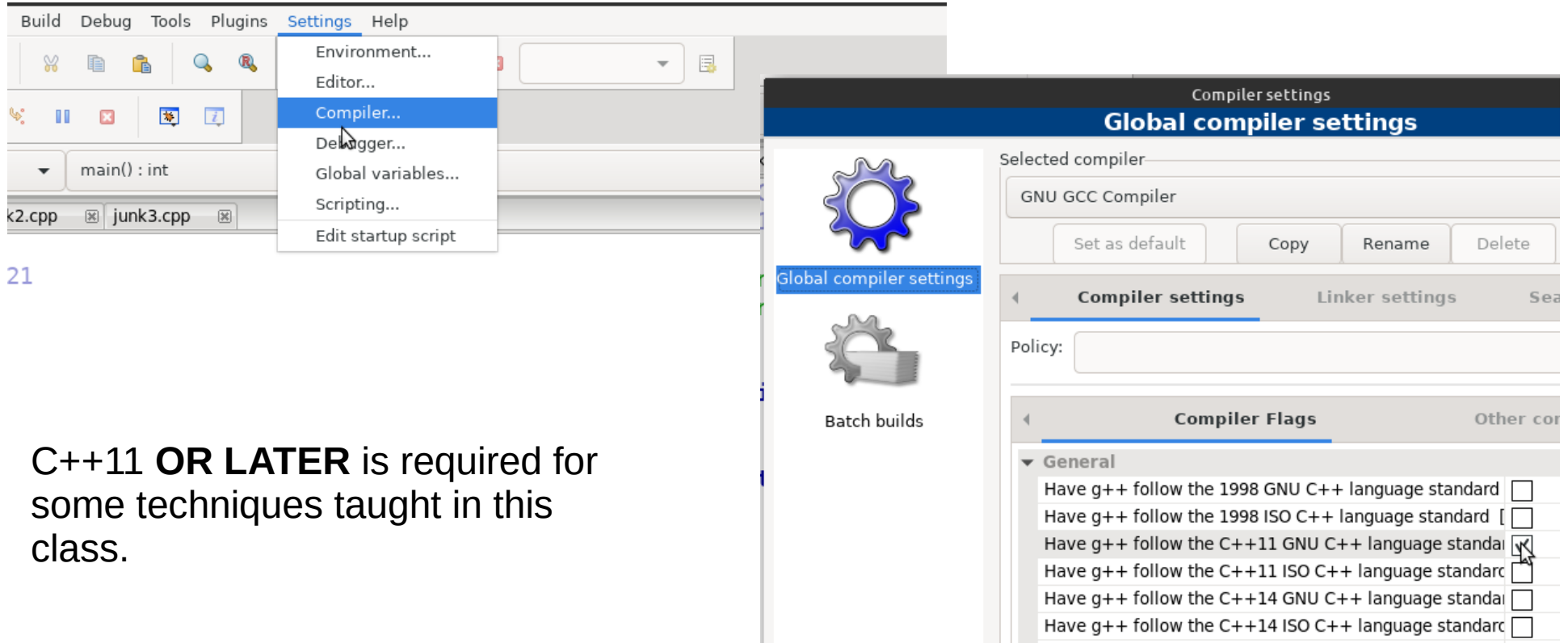
Using CodeBlocks

Create a new
program file

Build and Run a
program.

Type your
program here.

```
File   Edit   View   Search   Project   Build   Debug   Tools   Plugins   Settings   Help
```

```
<global>                          main() : int
```

```
junk.cpp

 1    //Gentry
 2    //Aug 18
 3
 4    #include<iostream>
 5
 6    using namespace std;
 7
 8    int main (){
 9        cout << "Welcome to CS1428" << endl;
10        return 0;
11    }
12
```

Setting Compiler Version

C++11 **OR LATER** is required for some techniques taught in this class.

Other IDEs?

- Not supported by me or by lab instructors, but might work better for you.

- **X-Code**: good for Mac

  - https://apps.apple.com/us/app/xcode/id497799835?mt=12

- **Repl.it**: browser based

  - https://replit.com/

- **C-Lion**: free student license

  - https://www.jetbrains.com/clion/download/