

CS31 Discussion 2E

Week 1

Srinath

Friday 2:00 pm - 3:50 pm

TA Introduction

Name: Srinath

Contact: srinath@g.ucla.edu

Office hours: Tuesday and Thursday 12:30pm-2:30pm (will be online first 2 weeks)

Class website: <http://web.cs.ucla.edu/classes/fall22/cs31/>

LA Introduction

Name: Liah Kim

Contact: liahk1@g.ucla.edu

Office hours: Thursday 12:30pm-2:30pm

Class Introductions

Name

Major and Year

C++ familiarity : Beginner | Intermediate | Advanced

(Optionally) hobbies, fun facts etc.

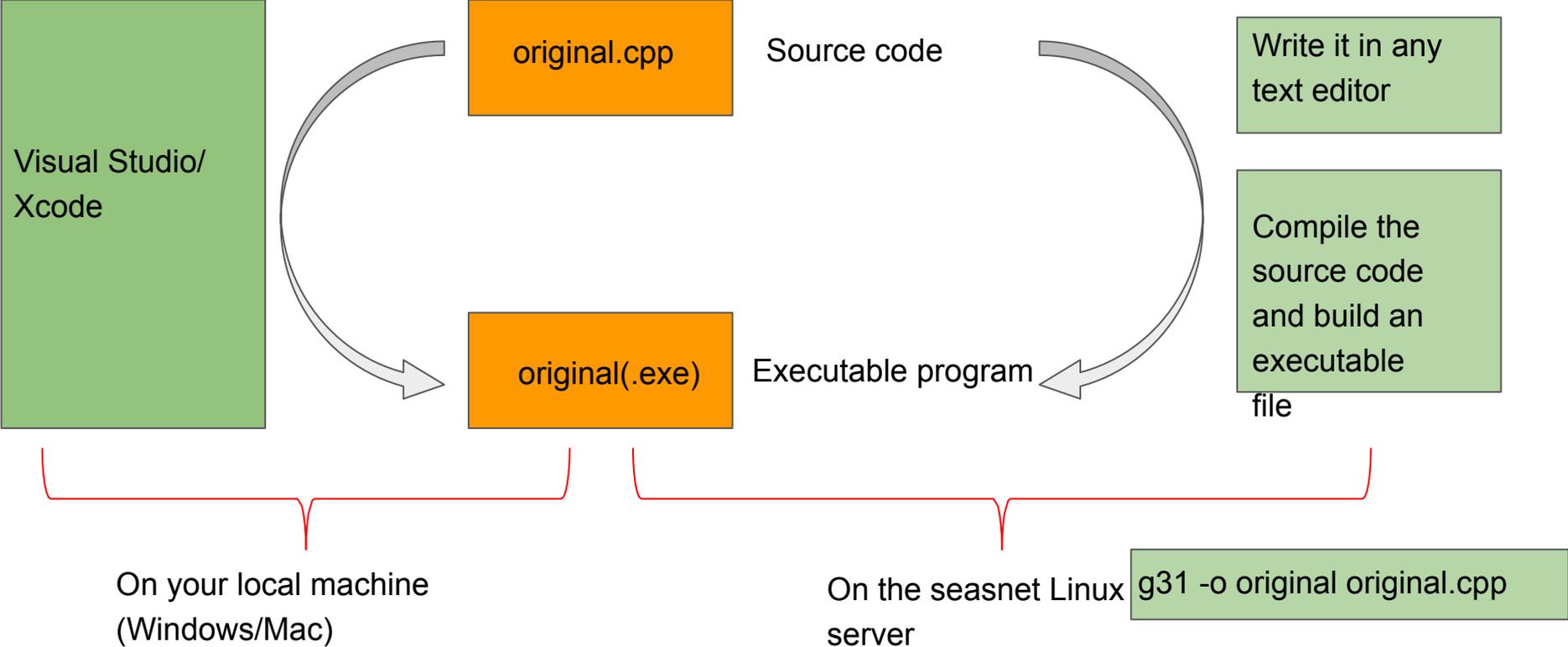
Friday Discussion's

- Important announcements
- Lecture review
- Practice problems
- Any other help you might need

Announcements

- Project 1 has been posted, due at 11pm Tuesday, October 4
- <http://web.cs.ucla.edu/classes/fall22/cs31/>

Building Programs



Connect to UCLA VPN

<https://www.it.ucla.edu/it-support-center/services/virtual-private-network-vpn-clients>

Remember to make sure your computer are connected to UCLA VPN all the time you try to run your program on the server!!!

Upload Files to the Server

Windows users:

Remote Desktop, [Cyberduck](#), WinSCP

<https://www.seasnet.ucla.edu/setting-up-remoteapps-and-remote-desktop/>

Mac users: Remote Desktop, Cyberduck, run the commands in Terminal

`scp path_of_the_file_on_your_computer username@cs31.seas.ucla.edu:`

scp - secure copy protocol

Connect Linux Server on SEASNET

Windows users:

PuTTY, Remote Desktop

<https://www.seasnet.ucla.edu/setting-up-remoteapps-and-remote-desktop/>

Mac users: run commands in Terminal

ssh yourSEASaccount@cs31.seas.ucla.edu

Then type in your password

ssh - secure shell

Useful terminal commands

pwd: get the path of the current working directory (or folder)

cd path: go to the folder under path

example:

- **cd Desktop:** go to the subfolder named Desktop
- **cd:** go to the root folder

Useful terminal commands

ls path: list all the files and folders under path

example:

- **ls Desktop:** list all the files and folders on desktop
- **ls:** list all the files and folders under current path

Useful terminal commands

`cp path1/file path2`: copy file from path1 to path2

`cp Desktop/hello.cpp .`: copy hello.cpp from desktop to current path

An alternative: `mv Desktop/hello.cpp .`

Linux command cheat sheet:

<https://github.com/0nn0/terminal-mac-cheatsheet>

<https://github.com/LeCoupa/awesome-cheatsheets/blob/master/languages/bash.sh>

Logic Error

Logic Error

- Using a single equal sign to check equality

```
char done = 'Y';  
while (done = 'Y')  
{  
    //...  
    cout << "Continue? (Y/N)";  
    cin >> done;  
}
```

- Extra semicolons

```
int x;  
for (x = 0; x < 100; x++);  
    cout << x;
```

Compilation Error

Compilation Error

- Undeclared variables

```
int main()
{
    cin >> x;
    cout << x;
}
```

- Missing semicolons

```
int main()
{
    int x;
    cin >> x
    cout << x;
}
```

- Incorrect number of braces

```
int main()
{
    int x;
    cin >> x;
    if (x == 5)
    {
        cout << x;
    }
```

- Incorrect usage of operators

```
cout >> "Hello!" >> endl;
      <<                <<
```

Questions?

Commands used in discussion

— Command Line Basics

working directory : pwd

create a folder : mkdir

change directory : cd , cd ..

list files and folders : ls

create a file : touch

edit and save a file (nano) : nano, vim

Autocomplete (Tab) :

Previous commands (Up Arrow/Down Arrow)

— Server

address : lion.cs.ucla.edu

username : srinath

Note : DO NOT USE THIS ADDRESS FOR PROJECT 1

— Uploading files to server

scp path_to_local_file username@address:

— Login to your server

ssh username@address