Git, GitHub, and C++!

Sprint 0 - CSE 2341 - Fall 2016

Due Before 9:00AM on Monday, August 29th

Introduction

In Sprint 0, you will complete the following tasks:

- Install VirtualBox and Ubuntu VM
- Create a GitHub account, and send us your GitHub username using the Google Form posted on Canvas
- In your Data Structures repository on GitHub, create a "Hello, World" program in C++ using QTCreator in your virtual machine
- Push your code to GitHub and make a pull request to submit Sprint

Installing the VM

Installation instructions can be found at lyle.smu.edu/~mspringer

Creating a GitHub account

To create a GitHub account and learn about git, read chapters 1, 2, 3, and 6 of the ebook linked in the intro lab slides (link on Canvas).

Hello, World

Write a Hello, World program in C++ using QTCreator in Ubuntu.

Spend some time familiarizing yourself with the Ubuntu VM and the coding environment. Check out linuxcommand.org to learn about how to perform a number of basic but powerful operations in the linux kernel (terminal).

Add all of your code (.h and .cpp files) as well as your qmake file to the git repository. You don't need to add any .o files or anything from the build folder and QT.

Make sure you write your code in a feature (non-master) branch of your git repo!

Pull Request

After you've made your working "Hello, World" program in C++ using QTCreator, push your code to a non-master branch on GitHub and make a pull request on GitHub into the master branch. This is how you will submit your work for each and every assignment in this course.

A Final Comment

This will take a reasonable amount of time if you're not familiar with C++, Ubuntu, Git, and GitHub. Take the time to learn how to use these tools, or you will have an incredibly hard time catching up later in the semester. If you thoroughly read the git e-book and spend some time learning about the linux kernel, you should be able to accomplish this entire assignment with no trouble. If you still need help, the TAs will help you during lab. Don't let yourself get behind during the first week!

If you have any questions, please ask us on Piazza!