

# Github and Midterm review

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# Some Announcements!

No Lecture on Friday!

Starter code is up on Moodle

# What is Github?

It is a version control tool

Wait what?

Github is a system which keeps a record of your changes

It allows multiple people to make changes and manages what changes were made when and by whom

If something breaks, you can always go back to the previous version

# Some GitHub Terms

Repository - This is basically your project

Collaborators/ Contributors - Your Teammates

Commits - Any recorded change that you submit

Some other terms you might read online:

1. Merges

2. Push/ Pull

3. Clone

# Additional resources

<https://guides.github.com/activities/hello-world/>

<https://product.hubspot.com/blog/git-and-github-tutorial-for-beginners>

<https://medium.com/@george.seif94/a-full-tutorial-on-how-to-use-github-88466bac7d42>

<https://www.slideshare.net/HubSpot/git-101-git-and-github-for-beginners>

# Lets see how to do well on the midterms today!

Go to Moodle and download the starter code and also download your assignments!

# Problem 1

Given a key in BST. Find which node will it followed by in the Inorder traversal

(Similar problem: Which node will precede it in inorder traversal)

Other problems ; Remove all leaf nodes from the binary search tree

## Problem 2

Sum the 3rd to the 5th largest element in a max heap

Eg:

Your heap is : 22, 15, 17, 5, 8, 16, 4



# Problem 3

Given 2 arrays, see if arr1 is a subset of arr2

## Problem 4

In a graph given a starting vertex. Find the distance to all the nodes in the graph.