

Preparing for Final exam and Final Prof Demo

- Announcements
 - Next week
 - Final Exam on Thursday August 13th at 3:30-5:20pm
 - Computer: Fully charged and plugged in
 - Office hours: Thursday on Aug 13th 10-11am and 2-3pm
 - Final Proficiency Demos
 - Take place Friday August 14th
 - By Appointment
 - Using Google Meet ***Check your pdx.edu email!

Final Exam Review

Table Abstract Data Types

- Hash Tables – Topic 6
- Efficiency of Algorithms - Topic 7
- Tree Terminology – Topic 8
- Binary Search Trees – Topic 8,9
- Balanced Trees – Topic 10
- Heaps and Graphs – Topic 11

Details!

- Hash Tables – Topic 6
 - Collision resolution techniques
 - Hash function, hash table, perfect hash function
 - Allocating an array of LLL for a hash table performing chaining
- Efficiency of Algorithms - Topic 7
 - Talk in terms of the Big O notation
- Tree Terminology – Topic 8
 - Height, Sibling, Leaf, In-order Successor, Complete Tree, Full Tree

Details!

- Binary Search Trees – Topic 8,9
 - Coding – Traversal, insertion, removal
- Balanced Trees – Topic 10
 - Concept of 2-3, 2-3-4, red-black, AVL
 - What does it mean to be balanced?
- Heaps and Graphs – Topic 11
 - Terminology
 - Weighted graph, Directed graph
 - Connected graph, Complete graph, edge vs path, cycle

Final Prof Demos!

- Step 1: Prepare your computer and work area
 - Computer should be fully charged and plugged in
 - There should be no code on the screen
 - Be prepared to show your work area
 - DO NOT login to our quizzor system early...
- Step 2: Join the Google Meet
 - Phase 1 demos will not be scored in you don't join your appt
- Step 3: WAIT for the proctor to begin
- Step 4: Share your ENTIRE screen with "Present Now"

When Prompted to Begin

FROM HERE ON ... the demo is automated. Communication with the proctor will only take place in an emergency. You may ask a question, but when you do so also raise your hand so I know who is asking!

- Login to Canvas
- Go to Quizzes
- Begin the Phase 1 Final Proficiency Demo
 - Read the instructions
 - Step through the Proctorio setup process
 - Then Start the “quiz” – 60 minutes begins
 - Select a question
 - Third question sticks, there are no “go backs”
 - Go to the “Next Page” if discarding a question

After Selecting a Question

- Login to `quizortest.cs.pdx.edu`
- Make sure your font is readable
 - 16 point font minimum
 - If using putty, make sure your foreground color is white (255 for red, 255 for green, and 255 for blue)
- Type: `starttest 163 f BST`
- Type: `cd CS163/fpdemo`
- Begin programming
 - Put your code in a file of your last name `.cpp`
 - Put the prototype in the `.h` file
 - Call the function in main
 - Remember to comment out code rather than delete