

CSSE 230 Day 30

That's all folks.

Course Evaluations on Banner

- Numbers are nice, but written explanations are much better
- Focus:
 - Did you learn a lot?
 - Are there things you know/can do now that you didn't/couldn't at the beginning of the term?
 - What about the course/instructor enhanced your learning?
 - What about the course/instructor were barriers to your learning?
 - Be as specific as possible.

Let's revisit the "Big picture", with understanding

Other notes:

Can sort!

If sorted, search:

THE BIG PICTURE

CSSE 230 - DATA STRUCTURES AND ALGORITHM ANALYSIS

Applications: (120/320 + 10% of 230 + beyond) ADT: List Stack Queue Set / Map (key/value) (120/220+10%) Implementation (heap) (hash) (circular) Choices Amay Linked List Tree Graph (120/220 × 20%) (100 + 10%)(45%)(5%) Diagram Why use? Access by index: Access by index: Access by index: (CSSE473) (custimes) Search: Search: * Search: Insert/remove Insert/remove: * Insert/remove from start/middle at ends or from Iterator:

* ggly if balanced. Otherwise Q(

Some Final Thoughts

- Data is at the heart of software.
 - The companies you may work for agree!
 - The data is the "irreducible complexity" of the code.
- This class has been very "heads down."
 - Getting the algorithms right.
 - Making good OO design choices.
- You also need to be "heads up."
 - Like the ethics assignment you did.
 - Understanding requirements means knowing the clients and users!
 - More on that in CSSE 371 ...

Final Exam Details

- Thursday morning.
- Format same as previous exams.
- You can bring two sides of 8.5" x 11" paper.
- Comprehensive.
- Best preparation: Written problems

Final Exam topics

- Reading, programs, in-class, written assignments.
- Foci:
 - Binary trees, including EBT, AVL, red/black, rank, and threaded trees
 - Traversals and iterators, numeric properties
 - PriorityQueues, Heaps and heapsort
 - Issues in Hash table implementation
 - Graphs
 - Recurrence relations
 - Sorting algorithms and analysis
 - Algorithm analysis (O, θ , ω) in general
 - OO programming, using various data structures (lists, stacks, queues, sets, maps, priority queues)
 - +/- with ADT implementation options (like we did for PQ last week be specific with answers)

What's left?

- Finish sorting races by 11:59 PM Friday (late day until Saturday is OK)
 - SortingRaces eval is OPTIONAL
- Study, including taking the practice exam
 - Extra help meetings by appointment
- Final Exam Thursday