







## **Final Exam Details**

- > Format same as previous exams.
- You can bring two sides of 8.5" x 11" paper.
- Comprehensive, but more focus on last 3 weeks
  - 60% paper, 40% programming (90/60 points)
- Best preparation:
  - Written problems
  - re-do programming problems you struggled with on homework/exams

## Final Exam topics

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

## What's left?

- Finish sorting races by 11:00 PM today (using a late day is OK).
- Since some students will not finish SortingRaces until late Saturday evening, it is possible that it will not be graded before the exam.
- If there are issues with grades on old assignments, we should get them resolved before you leave campus.
- Final Exam Monday 1:00 PM
- > Study, including taking the practice exam