cs200 study guide

General
- Special review session wed. may 13th 1-3pm at CSB130
- I will have old quizzes and exams that haven’t been picked up
- Final from spr 08 posted on ramct
- Exam is at 7am on thursday

Tips on how to study to this exam
- For each data structure:
  - What ADT does it implements
  - Algorithms for the various operations
  - Implementations and their properties (big O)
  - Know how to derive the big O bounds

Data structures we studied
- Stacks and queues
- Priority queues / heaps
- Binary search trees
- Balanced search trees
  - Need to know the basic ideas, but not algorithm details (same as for midterm)
- Hash tables

Topics
- ADTs
  - What is is an ADT, what is it good for, and how to specify one
- Big-O analysis
- Divide and conquer / sorting algorithms
  - Problem solving with divide and conquer
  - Applying this strategy to sorting algorithms (mergesort, quicksort); other sorting algorithms (radix sort)
- Graphs and graph algorithms
  - Know all the definitions
  - Know the algorithms (and big O when in slides). Won’t ask about material in the last set of graph slides.
- Grammars, relations