

ecs281

DATA STRUCTURES AND ALGORITHMS

Final Exam Review: December 11, 2007

The University of Michigan

Agenda

- Important Topics
- Exam Format
- Last year's exam review
- Any Questions?

Important Topics

- Cumulative w/focus on new material (after midterm)
 - Sorting algorithms: Selection, Insertion, Heap, Merge and Quicksort (*)
 - Hashing
 - Recurrence relations / Recursive Functions
 - Trees: AVL, BST, M-way, 2-[34] and B-tree
 - Graphs: (*)
 - Traversals (BFS & DFS)
 - Topological sort
 - MST (Kruskal's and Prim's)
 - SPF (Dijkstra's)
 - P/NP problems
 - Convex hull / Graph coloring