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
Important Topics Continued

- Dynamic Programming (*)
- 0/1 Knapsack (*)
- Travelling salesman
- Longest Common Subsequence (*)
- Edit Distance, Approximate Match and Pattern Matching (*)
Format

- 5-8 questions with an average of 12-15 points each
- No surprises (like the midterm)
- 110 minutes
- Wednesday 12/19
  - 4:00-6:00 pm in CSE 1670 (A-M)
  - DOW 1005 (N-Z)
Conclusion

Any Questions?

Good Luck for the Finals!