CS-323 FINAL EXAM:

GUIDELINES FOR PREPARATION

Exam Date & Time: 30 April 2010 at 4:30pm-7:00pm in regular classroom

Content and Format:
- 10 essay questions, each worth 5 points
- One “extra-credit” question worth 5 points
- Subject areas will include:
  - Skip lists
  - Hash collision resolution
  - Trees & Tree Algorithms:
    - Breadth-First-Search
    - Depth-First-Search
    - Composition (vs graphs, forest)
    - Processing tree structures
  - Graphs & Graph Algorithms:
    - Shortest Path
    - PageRank
  - Backtracking & Constraint Satisfaction Problems
  - Dynamic Programming
    - Solutions using this method
    - Cost estimation
  - MapReduce
    - Roles of master and workers
    - “Map” function
    - “Reduce” function

Resources:
- CLOSED BOOK EXAM

Suggested Preparation:
If you are comfortable with the answers to the homework problems, and understand the solutions to the programming problems, this exam will be easy for you.