Recitation 12 – 42 (a.k.a. Exam II Review)  
Parallel and Sequential Data Structures and Algorithms, 15-210 (Spring 2014)  
April 1st, 2014

1 Announcements

- Exam II is on Friday during lecture!
- To help you prepare, looks like we *accidentally* emailed you solutions to the exam. Uh, oops.
- No lab this week to let you study for the exam. RangeLab will go out next Monday.

2 Logistics

Q: Where will the exam take place?  
A: Rashid, as usual.  
Q: When will the exam take place?  
A: Friday, 12 – 1:20pm, as usual.  
Q: Is the exam cumulative?  
A: Yes, but perhaps no. But actually, yes.  
Q: Am I allowed a cheatsheet?  
A: YES. 1 sheet (letter... no exotic paper sizes please!) double-sided. Don't just use the same cheatsheet as Exam 1!  
Q: Is it going to be hard?  
A: You bet it is. It's a learning experience! Don't worry, study hard, and you'll be perfectly fine. Most importantly, HAVE FUN!
3 Topics

- Graph Representations
- BFS and Applications
- DFS and Applications
- DFS Numberings
- Topological Sorting
- Dijkstra's Algorithm
- Bellman-Ford Algorithm
- Graph Contractions (Edge, Tree, and Star contraction)
- Lightest-Edge Rule
- Minimum Spanning Trees (Prim's, Kruskal's, Borůka's Algorithms)
- Binary Search Trees
- Treaps (Randomized)
- All the labs from ThesaurusLab → SegmentLab
- Don’t forget the main concepts from Exam 1!