

Recitation 6 – Exam I Review

Parallel and Sequential Data Structures and Algorithms, 15-210 (Spring 2014)

February 18th, 2014

1 Announcements

- Exam I is on Friday during lecture. \exists a practice exam, in case you're not aware...
- No lab this week to let you study for the midterm. *ThesaurusLab* 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: Am I allowed a cheatsheet?

A: YES. 1 sheet (letter... no exotic paper sizes please!) double-sided.

Q: What should go on my cheatsheet?

A: I'll let your TA tell you that in recitation. Use your best judgement, and don't try to cram 190 pages of lecture notes using 2 pt font.

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

- Recurrences (solving big- O , tree/brick/substitution methods)
- Brute force algorithms
- Divide-and-Conquer algorithms
- Sequences (standard SEQUENCE functions, including `scan` and `collect`)
- Understanding of STSeqs
- Sets and Tables

- Basic Probability and Expectation (Markov, Chebyshev)
- Randomized Algorithms (especially their analysis)
- Quicksort (understanding and analysis)
- All the labs from MiniLab → BabbleLab
- Math