Instructor: Ten H. Lai  Office: 581 Dreese Labs  
Office Hours: MWF 2:30-3:30 pm  
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COURSE SUMMARY: Performance analysis considerations in design of algorithms and data structures; Order of magnitude analysis, recurrence relations, probabilistic analysis, divide and conquer; searching, sorting and graph processing analysis.

PREREQUISITE: CSE 560; STAT 427; and MATH 566


SEQUENCE OF TOPICS:

1. Analyzing algorithms (Chapter 2.2, 2nd edition)
2. Asymptotic notation (Chapter 3, 2nd edition)
4. Recurrence relations (Sections 4.1, 4.2, 2nd edition)
5. Heapsort and priority queues (Chapter 6, 2nd edition)
6. Quicksort (Chapter 7, 2nd edition)
7. Elementary graph algorithms (Chapter 22, 2nd edition)
8. Minimum spanning trees (Chapter 23, 2nd edition)

Grading: Homework 20%, Midterm Exams 50%, Final Exam 30%

Bonus: attendance will be taken several times to determine your bonus.

Exam Schedule:

- Midterm Exam II: Monday, February 21.
- Final Exam: Wednesday, March 16, 1:30-3:18 pm.

General Policy:

- Late homework will not be accepted.