Lecture Outline (CS 303, Dong Xu, 2/20/04)

• Things to start…
  – Midterm
  – Other questions?

• Outline
  – A randomized version of quicksort (7.3)
  – Analysis of quicksort (7.4)
• Review on performance of quicksort
  – Balanced
  – Intuition for average case

• A randomized version of quicksort
  – Random sampling
  – Pseudo code

• An analysis of quicksort
  – Worst case analysis
  – Average case analysis
• **Reading**
  – Chapter 7.3
  – Chapter 7.4

• **Homework**
  – Ex. 7.4-1, 7.4-2, 7.4-4, 7.4-5
  – Problems 7-1, 7-2, 7-5