Lecture Outline (CS 303, Dong Xu, 2/25/04)

• Things to start…
  – Discussion on the quiz
  – Other questions?

• Outline
  – Lower bounds for sorting (8.1)
  – Counting sort (8.2)
• Lower bounds for sorting
  – Lower bounds
  – Comparison sort and decision tree
  – Lower bound for the worst case in sorting
  – Sorting in linear time

• Counting sort
  – Input/output
  – Pseudo code
  – Example
  – Computing time
  – Stable algorithm
• Reading
  – Chapter 8.1
  – Chapter 8.2

• Homework
  – Ex. 8.1-3, 8.1-4
  – Ex. 8.2-1, 8.2-2, 8.2-3, 8.2-4