Lecture Outline (CS 303, Dong Xu, 2/27/04)

• Things to start…
  – Questions?

• Review on counting sort
  – Pseudo code
  – Example
  – Computing time
  – Stable algorithm
• **Radix sort**
  – Example
  – Pseudo code
  – Computing time
  – Correctness

• **Bucket sort**
  – Idea
  – Input/output
  – Pseudo code
  – Example
  – Expected computing time
• **Reading**
  – Chapter 8.2
  – Chapter 8.3
  – Chapter 8.4

• **Homework**
  – Ex. 8.3-1, 8.3-2, 8.3-4
  – Ex. 8.4-1, 8.4-2
  – Problems 8-2, 8-5
  – Programming (optional): implement counting sort algorithm and compare it with qsort () function in terms of computing time performance.