Lecture Outline (CS 303, Dong Xu, 3/3/04)

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

• Overview
  – Dictionary operations
  – Concept of hash table
  – Hash function
  – Outline of the chapter
• Direct-address tables
  – How to use direct-address table for dictionary operations
  – Computing time (O(1))

• Hash tables
  – Idea
  – Collisions
  – Collision resolution by chaining
  – Implement dictionary operations with chaining
  – Analysis of hashing with chaining (successful search and unsuccessful search).
• **Reading**
  – Chapter 11.1
  – Chapter 11.2

• **Homework**
  – Ex. 11.1-1, 11.1-2, 11.1.3
  – Ex. 11.2-1, 11.2-2, 11.2-3, 11.2-5