CS 367 Announcements
Thursday, December 4, 2012

Homework Assignment 9 – due tonight at 10:00 pm

Programming Assignment 4 – due Friday, 12/7 at 10:00 pm

Last Time
• finish Hashing
• handling collisions
  • chaining
  • open addressing
• Java support for hashing
  • hashCode()
  • Map ADT
  • Hashtable vs. HashMap
  • TreeMap vs. HashMap

Today
• Graphs
• graph terminology
• searches and traversals
• applications

Next Time
• continue Graphs
• implementation issues
• Dijkstra’s algorithm (handout posted on Syllabus page)
• topological ordering
Graph terminology
Graph terminology (continued)
Searches and Traversals

Search

Traversal
Depth-first search (DFS)
Breadth-first search (BFS)
Try it:

Graph 1

Graph 2

Give the order that nodes are visited for depth-first search (DFS) starting at A

Graph 1:

Graph 2:

Give the order that nodes are visited for breadth-first search (BFS) starting at A

Graph 1:

Graph 2:
Uses of Graph Traversals