CSE 101 - ALGORITHMS - SUMMER 2000

Lecture Notes 7

Monday, July 24, 2000.

Chapter 5

Graph Algorithms

Today's material can be found in Chapter 4 of the textbook (Skiena).

5.1 Representing a Graph

See Section 4.2 in the text book.

5.1.1 Adjacency Matrix

5.1.2 Adjancency Lists

5.2 Traversing a Graph

See Section 4.4 in the textbook.

5.2.1 Breadth-First Search

5.2.2 Depth-First Search

5.3 Applications of Graph Traversal

See Section 4.5 in the textbook.

5.3.1 Connected Components

5.3.2 Cycle Detection

5.3.3 Topological Sorting