Chapter 13

Graphs

After studying this chapter, you should be able to

* Define the following terms related to graphs:
* Directed graph
* Undirected graph
* Vertex
* Edge
* Path
* Complete graph
* Weighted graph
* Adjacency matrix
* Adjacency list
* Implement a graph using an adjacency matrix to represent the edges
* Explain the difference between a depth-first and a breadth-first search, and implement these searching strategies using stacks and queues for auxiliary storage
* Implement a shortest-path operation, using a priority queue to access the edge with the minimum weight