**Chapter 15 Running Time Analysis**

15.1 Orders of Magnitude and Big-Oh Notation

15.2 Running Time Analysis of Algorithms: Counting Statements

15.3 Running Time Analysis of Algorithms and Impact of Coding: Evaluating Recursive Methods

Handwaving Method

Iterative Method

Proof by Induction Method

Other Methods

15.4 Programming Activity: Tracking How Many Statements Are Executed by a Method

15.5 Running Time Analysis of Searching and Sorting Algorithms