**Chapter 13**

**Knowledge Goals**

* To understand what recursion is.
* To understand the concepts of base and general cases.
* To understand the differences between recursive and iterative code.

**Skill Goals**

*To be able to:*

* To identify the base and general cases to solve a problem recursively.
* To write recursive methods with one base case.
* To write recursive methods with two base cases.
* To write a recursive solution to compute the factorial of an integer.
* To write a recursive solution to compute the greatest common denominator of two integers.
* To write a recursive solution for determining whether a String is a palindrome.
* To write a recursive version of a binary search.
* To write a recursive solution for the Towers of Hanoi problem.
* To compare recursive and iterative solutions to the same problems in terms of performance and complexity.