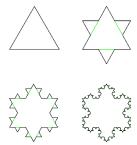
PROGRAMMING PROJECT 7-RECURSION

CS 143

Definition: Recursion: See definition of Recursion

This week you will turn in **two** programs

- 1) The Koch snowflake can be constructed by starting with an equilateral triangle, then recursively altering each line segment as follows:
 - 1. Divide the line segment into three segments of equal length.
 - 2. Draw an equilateral triangle that has the middle segment from step 1 as its base and points outward.
 - 3. Remove the line segment that is the base of the triangle from step 2.



Write a program to draw the Koch snowflake on a DrawingPanal recursively

- 2) Write a **recursive backtracking program** that solves the **8 Queens Puzzle** discussed in class and on pages 784-791 in the text book.
 - Your program must work on any size board 4x4 or greater (ask the user for the size they wish to solve
 - You may present your solution either using the console or on a DrawingPanel.