## CPW 245 Winter 2020 Homework Assignment 7

This assignment will reinforce your understanding of Trees and LinkedLists.

The starter code, **SearchTreeClient.java**, **SearchTree.java**, **List.java**, and **LinkedList.java** contain a templated version of the **Tree** code that we saw in class.

Your job is to add a method named **getLeaves** to **SearchTree**. **java** to construct a linked list of the data stored in the leaves of the tree. Remember that a node in a tree is a leaf if it has no children.

## Main Idea:

Create an empty LinkedList<E> in public LinkedList<E> getLeaves () that calls a private helper method private void getLeaves (LinkedList<E> leaves, SearchTreeNode<E> root) which does an in-order traversal of the tree. When the traversal finds a leaf, that leaf is added to the linked list. The linked list is then returned by the public method to the client code.

## Expected results:

## leaves:

[A Flock of Seagulls, Buffalo Springfield, Steppenwolf, The Flamingos, The Monkees, Three Dog Night]