Outline for November 14, 2012

Reading: §14  
Assignment due: Wednesday, November 28, 2012 at 5:00 PM

1. In list, or in a list in a list, etc. [isinlist.py]
2. Objects, references, aliasing
   a. For strings, one copy: assume \( a = "banana" \)
      i. After \( b = a \) or \( b = a[:] \), then \( a \ is \ b \) is True
   b. For lists, multiple copies: assume \( A = [ 1, 2, 3 ] \)
      i. After \( B = A \), then \( A \ is \ B \) is True
      ii. After \( B = A[:] \), then \( A \ is \ B \) is False
3. List methods
   a. Add elements to, remove elements: \( L.append(x), L.extend(ls), L.insert(i, x), L.pop(), L.remove(x) \)
   b. Element ordering: \( L.reverse(), L.sort() \)
   c. Other: \( L.count(x), L.index(x) \)
4. Example use: linear search [linsearch.py]
5. Example use: recursive linear search [rlinsearch.py]
6. Tuples
   a. Used to group data
   b. Like lists, but immutable