Outline for February 13, 2012

Reading: §14

- 1. Objects, references, aliasing (Correction from last lecture)
 - a. Assign "banana" to variables a, b
 - b. For strings, one copy (a is b is True) [immutable]
 - c. For strings, a = "hello"; b = a; then a is b is True
 - d. Also, a = "hello"; b = a[:]; then a is b is True
 - e. For lists, multiple copies (a is b is False) [mutable]
 - f. For lists, a = [1, 2, 3]; b = a; then a is b is True
 - g. But ... a = [1, 2, 3]; b = a[:]; then a is b is False
- 2. Lists as parameters: can change list elements in function and they are changed in caller [args2.py]
- 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. Tuples
 - a. Used to group data
 - b. Like lists, but immutable