

## Outline for November 14, 2012

**Reading:** §14

**Assignment due:** Wednesday, November 28, 2012 at 5:00 PM

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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