

Outline for February 6, 2012

Reading: §8

1. Sequences
 - a. Accustomed to use in for loops (`for i in range(5):`)
 - b. Sequences are a series of values in a particular order
 - c. In Python predominantly strings and lists but also sets and tuples
2. Strings
 - a. Sequence of characters (characters are strings of length 1)
 - b. Strings are immutable; really important for functions
3. Basic string operations
 - a. `+`, concatenation for strings
 - b. `*`, repetition repeats given value
 - c. `len()` returns length of sequence
4. Indexing, `var[position]`
 - a. Count from 0 to `len(var) - 1`
 - b. Position can be a negative number to count from right
5. Assignment with indexing doesn't work as strings immutable
6. Slicing, `var[start:end]`
 - a. Value at index end not included in slice
 - b. If omitted, starting value defaults to 0 and ending value defaults to last index + 1
 - c. Can use negative index
7. String module `import string`
 - a. String methods: `s.capitalize()`, `s.replace(old, new)`, `s.find(sub)`, `s.rfind(sub)`, `s.upper()`, `s.lower()`