Outline for November 9, 2012

Reading: §16   **Assignment due:** Friday, November 9, 2012 at 5:00 PM

1. String methods
   a. Rule: methods that change, add, or delete characters do *not* alter the string to which they are applied; they return a new string that is a copy of the old string, suitably modified
2. String methods: type of characters in string (return `True` or `False`) [*strtype.py*]
   a. S.`isalpha()` — `True` if only alphabetics (letters) in S
   b. S.`isalnum()` — `True` if only alphanumerics (letters or digits) in S
   c. S.`isdigit()` — `True` if only digits in S
   d. S.`isspace()` — `True` if only white space (blanks, tabs, newlines) in S
   e. S.`isupper()` — `True` if all letters in S are upper case
   f. S.`islower()` — `True` if all letters in S are lower case
3. String methods: changing case of letters in string (return result of applying method) [*strchcase.py*]
   a. S.`capitalize()` — If the first character of S is a letter, capitalize it
   b. S.`title()` — Capitalize each word in S
   c. S.`lower()` — Change all upper case letters in S to lower case
   d. S.`upper()` — Change all lower case letters in S to upper case
   e. S.`swapcase()` — Change all upper case letters in S to lower case and *vice versa*
4. String methods: stripping blanks from strings (return result of applying method) [*strstrip.py*]
   a. S.`lstrip()` — Delete all leading white spaces from S
   b. S.`rstrip()` — Delete all trailing white spaces from S
   c. S.`lstrip()` — Delete all leading and trailing white spaces from S
5. String methods: find characters and substrings (return position or cause exception) [*strfind.py*]
   a. S.`find(`s`)` — Return the index of the first occurrence of s in S; -1 if s not in S
   b. S.`index(`s`)` — Return the index of the first occurrence of s in S; `ValueError` exception if s not in S
   c. S.`rfind(`s`)` — Return the index of the last occurrence of s in S; -1 if s not in S
   d. S.`rindex(`s`)` — Return the index of the last occurrence of s in S; `ValueError` exception if s not in S
6. String methods: miscellaneous [*strmisc.py*]
   a. S.`count(`s`)` — Return the number of times s occurs in S
   b. S.`startswith(`s`)` — `True` if S starts with s
   c. S.`endswith(`s`)` — `True` if S ends with s
   d. S.`replace(`s`,`t`)` — Replace all occurrences of s with t in S