

Operations for Extracting Data from Strings (from last lecture's handout) s = 'abracadabra' • s = 'abc d' A '#' marks a comment for the reader (including the code's author). Python ignores the rest of the line. a b c d # the following all evaluate to True Access portions with [] 'a' in s == True • s[0] is 'a' 'cad' in s == True s[4] is 'd' 'foo' in s == False s.index('a') == 0s[5] causes an error s.index('rac') == 2 ■ s[0:2] is 'ab' (excludes c) s.count('a') == 5 ■ s[2:] is 'c d' len(s) == 11Called "string slicing" s.strip('a') == 'bracadabr' ' cs1110 '.strip() == 'cs1110'

A String Puzzle Given: variable data contains a string with at least two 'L's. Example: data='PROF. LILLIAN LEE' Goal: give an expression for the part of the string starting with the 2nd 'L'. (How can we use the index operation?) (1) Store in variable i the index of the first 'L'. (2) Store in variable tail the part of data starting after i (3) Give an expression for the part of tail starting with 'L'

Given: info contains a comma-separated string with last name, difficulty, execution, and penalty.

* Example: info = 'RAISMAN, 6.5, 9.1,0'

Goal: store the difficulty as a string, with no extra spaces or punctuation, in variable df

Where, in the following sequence of commands, does the first (conceptual) error occur?

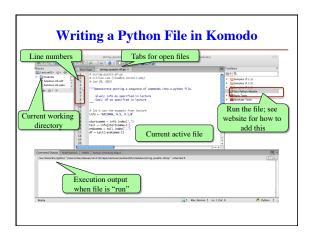
A: startcomma = info.index(',')

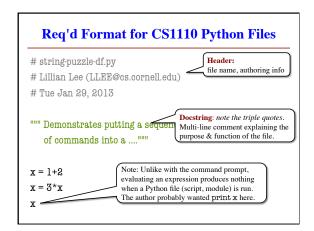
B: tail = info[startcomma+1:]

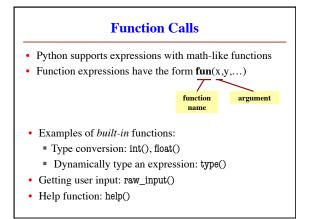
C: endcomma = tail.index(',')

D: df = tail[:endcomma-1]

E: this sequence achieves the goal







Using a Function From Another File (such files are called modules) Example: what if we want 'Raisman', not 'RAISMAN'? Lucky us: someone has written a module (file) string that contains a function capwords. import string # Tell Python to access this module name = info[:info.find(',')] # name is 'RAISMAN' print string.capwords(name) # output is 'Raisman'

