Lab 3

9 Sep 2019

The following functions should all take arguments that are lists of things, and return something (which may or may not also be a list). For each, write test function(s) before you write the functions themselves, and submit those along with your work.

- `find_alpha_first` finds the alphabetically-first string in a given list of strings **(Ok to assume: nonempty list, all lowercase strings)**

- `words_with_q` builds a list of all the words in the given list of words that contain the letter Q

- `word_middles` builds a list of the "middles" of all the words in a given list, ie missing their first and last letters. **(On words of less than two characters: don't crash, other behaviours ok (empty string, None, etc))**

- `only_primes` builds a list of the numbers in the given list of integers that are prime

- `minmax` returns a tuple containing the smallest value and largest value in a given nonempty list of numbers

As before, I'm expecting the version that requires you to write a loop to do the work, even where there's a builtin library function/method that would be shorter (because the point here is to give you practice with loops over lists).

Handin as lab3. Due date: get the test cases and at least a first draft of each function done by class time on Wednesday. Final handin is Friday at 4pm.