## CS:1210 (22C:16) Quiz 7 Version (b)

You have 15 minutes to complete this quiz. Please put away your books, notes, and all electronic devices  $\frac{1}{2}$ 

- 1. Suppose that the list L equals [100, ["ok", "is"], 1000, [1, 2], [[1, 2], [2, 3]], 1000]. Write down the value of L after each of these Python statements. For each problem start with the (same) value of L given above.
  - (a) L.insert(3, 200)
  - (b) L.remove(1000)
  - (c) L.extend(2\*L[4][0])
  - (d) L[L.index([1, 2])] = L[0]
  - (e) L[4][0][1] = L[len(L)-1]

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2. Write a function that takes a list L of floating point numbers and replaces each number in the list by the average of itself and its two neighbors. For example, element L[2] would be replaced by (L[1] + L[2] + L[3])/3. Note that L[0] has no neighbor on the "left" and would be replaced by (L[0] + L[1])/2. Similarly, if the length of L is n then the last element, namely L[n-1], has no neighbor on the "right" and would be replaced by (L[n-2] + L[n-1])/2.

The function does not return anything and it should just modify L in-place.