CS:1210 (22C:16) Quiz 7 Version (a)

You have 15 minutes to complete this quiz. Please put away your books, notes, and all electronic devices

 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.extend(L[1])

(b) L.remove(1000)

- (c) L.append(2*[L.count(1000)])
- (d) L[L.index([1, 2])] = L[0]
- (e) L[4][1][1] = L[len(L)-1]

Turn page over

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.