CS:1210 (22C:16) Quiz 8 Version (b)

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

Suppose that list L equals [["This", ["is", "a"]], "nested", ["list", "with"], ["several", [["different"]]], ["levels", "of"], "nesting"]. Evaluate these list comprehensions. The first 5 parts of worth 1 point each and the remaining 5 are worth 2 points each.

- (a) [str(x).replace("1", "8") for x in range(101, 111)]
- (b) [str(x).split("0") for x in range(105, 111)]
- (c) [x[1] for x in L if len(x)%2 == 0 and type(x) == list]
- (d) [range(sum(range(x))) for x in range(1, 5)]
- (e) [x[::-1][1] for x in L[:4]]
- (f) [[x for x in range(4)] for y in range(4)]
- (g) [y for x in L for y in x if type(x) == list and type(y) == str]
- (h) [y for x in [range(z+1) for z in range(4)] for y in x]
- (i) [i for i in range(len(L)) if len(L[i]) == i]
- (j) [x*y for x in L for y in range(len(x)) if type(x) == str and y < 3]