

CS:1210 Quiz 9 Version (a)

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.

- (a) `[str(x).replace("1", "8") for x in range(101, 111)]`

- (b) `[str(x).split("0") for x in range(105, 111)]`

- (c) `[sum(range(x)) for x in range(1, 5)]`

- (d) `[list(range(sum(range(x)))) for x in range(1, 5)]`

- (e) `[x[0] for x in L[:4]]`

- (f) `[str(x) + " " + str(y) for x in range(5) for y in range(x)]`

- (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]`