

CS:1210 Quiz 9 Version (c)

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) `[y for x in L for y in x[:1]]`

- (c) `[x[1] for x in L if len(x)%2 == 0 and type(x) == list]`

- (d) `[list(range(sum(range(x))))[::-1][:2] for x in range(5, 9, 2)]`

- (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) `int("".join([str(len(x)) for x in L]))`

- (j) `[x*y for x in L for y in range(len(x)) if type(x) == str and y < 3]`