22C:16 (CS:1210) Quiz 7

You have 20 minutes to complete this quiz.

Evaluate each expression and write down its *value*. Assume that (i) `grow` is a function that takes two parameters `a` and `b` and returns `[a]*b`, (ii) `isLen2` is a function that takes a parameter `x` and returns `len(x) == 2`, and (iii) `L = ["Write", ["your", "name"], "your", "section", [["and", "your"], "student"], "ID"]`.

(a) `map(range, map(len, L[:3]))`

(b) `L[3:][1][1][4]`

(c) `map(grow, L[:3], range(1,4))`

(d) `filter(isLen2, L)`

(e) `filter(isLen2, L[1::2])[1][0]`

(f) `reduce(grow, map(len, L[:3]))`

(g) `map(len, L).count(2)`

(h) `L[1] + L[4][0]`

(i) `grow(L[2], 3) + [L[1][0]]`

(j) `grow([L.count("and"), L.count("your")], 3)`