CSC148 Summer 2016 Quiz 03 (15 minutes)

First Name Last Name Lab room# Read over the following solution for the function list queue you worked on during the lab. We have omitted most of the docstring, and have added two print(q) statements. def list_queue(list_, q): :param list_: a Python list, possibly noted :type list_ : list :param q: an empty queue :type q : Queue :rtype: None for i in list_: q.add(i) print(q) while not q.is_empty(): el = q.remove() if isinstance(el, list): for j in el: q.add(j) else: print(el) print(q) Remember that the Queue class in lab has three methods (other than init): add (o): add object o at the end of this queue. **remove ()**: remove and return object at beginning of queue. is empty(): Return whether queue is empty or not.

Assume print (q) prints a user-friendly string representation of Queue q.

Assume that L = ['a', ['b', ['c', 'd']], ['e', 'g'], 'f'] and that q is an empty Queue. Write the output of the function call $list_queue(L, q)$. (We have written the first line of the output for you.)

```
['a', ['b', ['c', 'd']], ['e', 'g'], 'f']
a

[['b', ['c', 'd']], ['e', 'g'], 'f']

[['e', 'g'], 'f', 'b', ['c', 'd']]

['f', 'b', ['c', 'd'], 'e', 'g']

f

['b', ['c', 'd'], 'e', 'g']

b

[['c', 'd'], 'e', 'g']

e

['g', 'c', 'd']

g

['c', 'd']

c

['d']

d

[]
```