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Programming and Data Structures with Python

Quiz 1, I Semester, 2025–2026

18 September, 2025

The first three questions refer to the following Python program.

```
def f(l):
    l.extend(l[1:])
    return(l)

def g(l):
    l = l + l[1:]
    return(l)

list1 = [7,3,9]
list2 = f(list1)
list3 = g(list2)
```

1. What is the value of `list1` at the end of this program?

2. What is the value of `list2` at the end of this program?

3. What is the value of `list3` at the end of this program?

The next three questions refer to the following python program.

```
def f():
    global l1,x1
    l1 = l1 + [6]
    l2.append(7)
    l3 = l1 + [8]
    x1 = x1 + 9
    x2 = x1 + 10

(l1,l2,l3) = ([1],[2],[3])
(x1,x2) = (4,5)
f()
```

4. What is the value of `l1+l2` at the end of this program?

5. What is the value of `l1+l3` at the end of this program?

6. What is the value of `x1+x2` at the end of this program?