CS 145 Quiz 6 10/25/24 Section: A Name:_____

Closed book, closed notes, log out of computer! Please write neatly!

6.1 Write the final values of `a` and `b` after this code executes in the boxes to the right.

```
a = [[1, 2], 3]
b = a[:]
b.append([4, 5])
a[0][1] = 6
```

a	
b	

6.2. The following function is invoked as `mystery("abcd")`. In the boxes, write the value of the parameter `x` each time mystery is invoked, in the order in which Python will invoke that function. The first entry is already completed.

```
def mystery(x):
  if len(x) <= 1:
    return x
  else:
    result = ""
    result += mystery(x[0])
    result += ","
    result += mystery(x[1:])
    result += ","
    return result
```

x
"abcd"

6.3 Provide the correct code in the boxes so that the following recursive function will return the count of numbers greater than 0 in its argument list.

```
def count_pos(lst):
    if len(lst) == 0:
        return [          ]

    rest = count_pos( [          ] )

    if lst[0] > 0:
        return 1 + rest
    else:
        return rest
```