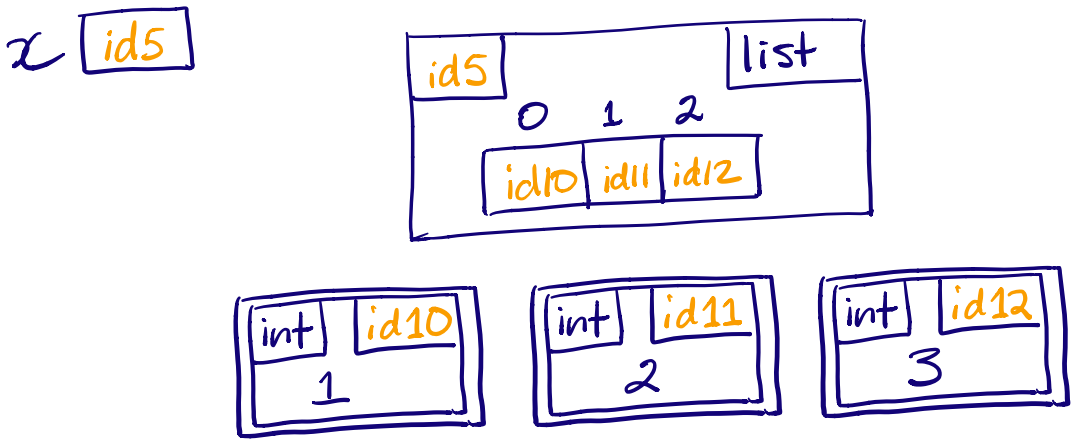
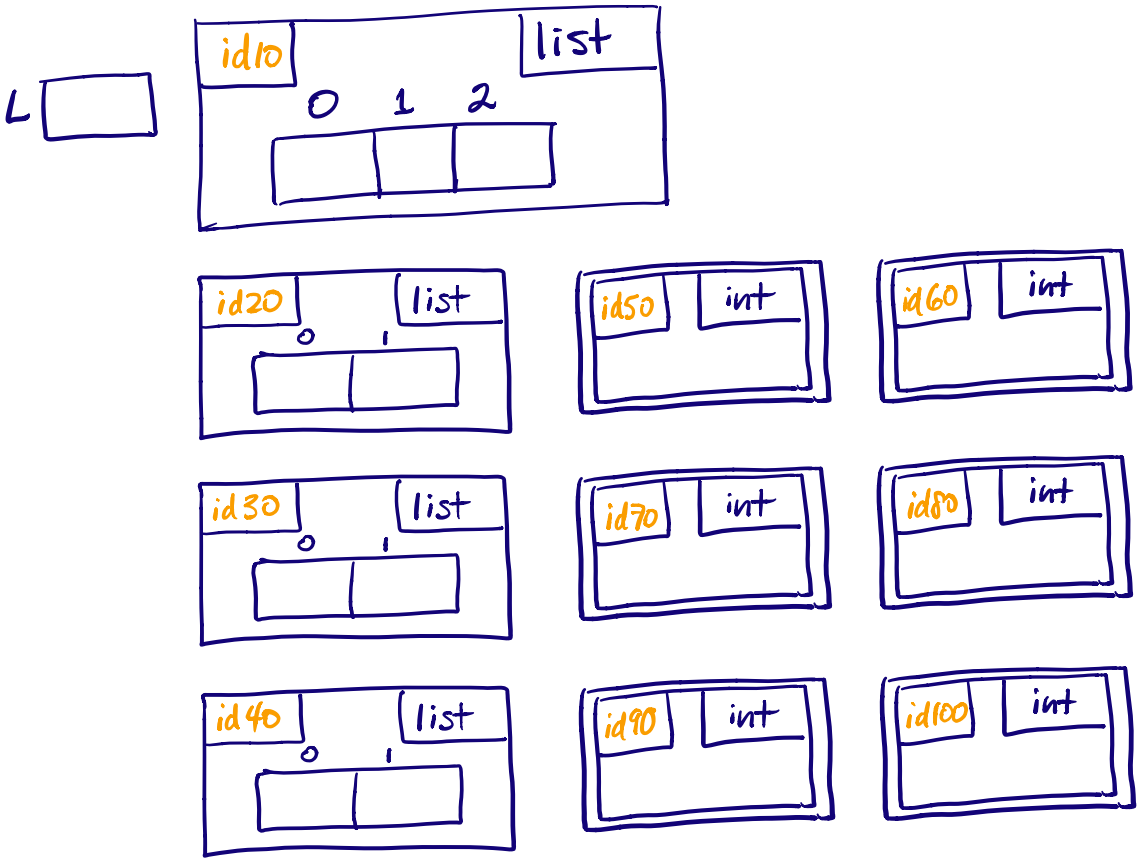
CSC148 - Python recap: Tracing simple code

For each snippet of code below, complete the memory model diagram and write what the output would be.

```
# Q1.
x = [1, 2, 3]
y = x
y = y + [4]
print(x, y)
```

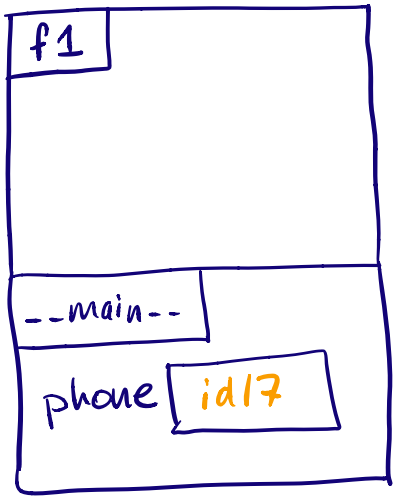


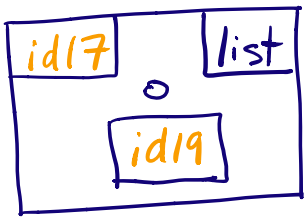

```
# Q2.
L = [[1, 2], [3, 4], [5, 6]]
for item in L:
    item[1] = 88
print(L)
```

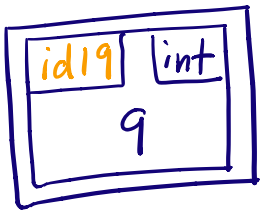


```python
# Q3.
def f1(thing: list) -> None:
    thing = ['x', 1] + thing

if __name__ == '__main__':
    phone = [9]
    f1(phone)
    print(phone)
```








```python
# Q4.
def f2(thing: list) -> None:
    thing.extend(['x', 1])

if __name__ == '__main__':
    phone = [9]
    f2(phone)
    print(phone)
```