Quiz: Memory Management

Total Score: /2^2

Printed Name:

Quiz rules:

1. You MAY use any printed or handwritten notes.
2. You MAY NOT use a computer or any other electronic device.

Problem 1. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd; rm -rf quiz; mkdir quiz; cd quiz
$ cat > foo.py <<EOF
import copy
xs = [3, 2, 1]
ys = xs
ys.append('A')
print('xs=', xs)
print('ys=', ys)
EOF
$ python3 foo.py
```

Problem 2. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd; rm -rf quiz; mkdir quiz; cd quiz
$ cat > foo.py <<EOF
xs = [1, 2, 3]
ys = list(reversed(xs))
print('xs=', xs)
print('ys=', ys)
EOF
$ python3 foo.py
```

Problem 3. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd; rm -rf quiz; mkdir quiz; cd quiz
$ cat > foo.py <<EOF
def reverse_list(ys):
    xs = []
    for i, y in enumerate(ys):
        xs.append(y)
    return xs
xs = [1, 2, 3]
ys = reverse_list(xs)
print('xs=', xs)
print('ys=', ys)
EOF
$ python3 foo.py
```

Problem 4. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd; rm -rf quiz; mkdir quiz; cd quiz
$ cat > foo.py <<EOF
def reverse_list(xs):
    ys = xs
    for i in range(len(ys)):
        ys[i] = xs[-i-1]
    return ys
xs = [1, 2, 3]
ys = reverse_list(xs)
print('xs=', xs)
print('ys=', ys)
EOF
$ python3 foo.py
```