Week 04 Quiz

CSCI040: ~~Computing for the Web~~ Introduction to Hacking

Total Score: /10

Printed Name:

Collaboration Policy:

1. You MAY use any printed or handwritten notes.

2. You MAY NOT use a computer or any other electronic device.

3. You MAY NOT discuss this quiz with another human being who has not completed the quiz. This includes:

   (a) collaborating during the quiz, and

   (b) telling a student in a different section the quiz was easy/hard.

Problem 1. What is the output of the following code:

```
total = 0
for i in range(3):
    total += i
for i in range(3):
    total += i
print('total=', total)
```

Problem 2. What is the output of the following code:

```
total = 0
for i in range(3):
    for j in range(3):
        total += 1
print('total=', total)
```

Problem 3. What is the output of the following code:

```
total = 0
for i in range(3):
    for j in range(i):
        total += i
print('total=', total)
```

Problem 4. What is the output of the following code:

```
total = 0
for i in range(1, 3):
    for j in range(0, 4, i):
        total += j
print('total=', total)
```

Problem 5. What is the output of the following code:

```
xs = [1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21]
total = 0
for i in range(2, 4):
    total += xs[i]
print('total=', total)
```

Problem 6. What is the output of the following code:

```python
xs = [1, 3, 5]
total = 0
for x in xs:
    total += x
print('total=', total)
```

Problem 7. What is the output of the following code:

```python
xs = [1, 3, 5]
total = 0
for i in range(len(xs)):
    total += xs[i]*i
print('total=', total)
```

Problem 8. What is the output of the following code:

```python
xs = [1, 3, 5]
ys = [2, 4, 6]
total = 0
for y in ys:
    total += y
    for x in xs:
        total -= x*y
print('total=', total)
```

Problem 9. What is the output of the following code:

```
xss = [[2, 4, 6], [1, 3], [0, 1, 2, 3]]
total = 0
for xs in xss:
    total += xs[-1]
    for x in xs:
        total -= x
print('total=', total)
```

Problem 10. What is the output of the following code:

```
xss = [[2, 4, 6], [1, 3], [0, 1, 2, 3]]
total = 0
for i in range(len(xss)):
    for j in range(len(xss[i])):
        total += xss[-i-1][-j]
print('total=', total)
```