

## Quiz: Containers

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

**Total Score:**            /5

**Printed Name:**

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### 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.** What is the output of the following code:

```
xs = [1, 3, 5, 7, 9, 11]
ys = xs[-1:-5:-2]
total = sum(ys)
print('total=', total)
```

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

```
xs = [1, 3, 5, 7, 9, 11]
total = 0
for i in range(3):
    total += xs[i] + i
print('total=', total)
```

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

```
xs = [1, 3, 5]
total = 0
for x in xs:
    total += x // 2
print('total=', total)
```

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

```
xs = [1, 3, 5]
total = 0
for x in xs:
    for i in range(2):
        y = x - xs[i]
        total += y
print('total=', total)
```

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

```
xss = [[1, 3, 5], [2, 4], [0, 1, 2, 3, 4, 5]]
total = 0
for xs in xss:
    total += 1
print('total=', total)
```