Week 8 - Paper Practice - Lists

For each of the following snippets of code, execute it by hand. Show exactly what is output by the code.

1. ```
x = [1, 2, 3]
print(x[0])
print(x[2])
print(x[:1])
print(x[0:])
``` 

2. ```
x = [1, 2, 3]
x[1] = "two"
print(x)
``` 

3. ```
x = ["first", "second", "third", "fourth"]
print(x[1:-1])
print(x[0:3])
print(x[-2:-1])
print(x[-1:2])
``` 

4. ```
x = ["first", "second", "third", "fourth"]
y = x[:]
y[0] = "1st"
print(y)
print(x)
``` 

5. ```
x = [1, 2, 3, 4]
x[len(x):] = [5, 6, 7]
print(x)
x[:0] = [-1, 0]
print(x)
x[1:-1] = []
print(x)
x.append("four")
print(x)
``` 

6. ```
x = [1, 2, 3, 4]
y = [5, 6, 7]
x.append(y)
print(x)
```