In [2]:

```python
def append_list(items = []):
    items.append(1)
    return items
print(append_list())
print(append_list())
```

```
[1]
[1, 1]
```

In [3]:

```python
a = [1,2,3,4,5,6,7,8,9]
a[::2] = 10,20,30,40,50,60
print(a)
```

```
---------------------------------------------------------------------
ValueError                      Traceback (most recent call last)
<ipython-input-3-8fa1a43c8790> in <module>
      1 a = [1,2,3,4,5,6,7,8,9]
----> 2 a[::2] = 10,20,30,40,50,60
      3 print(a)

ValueError: attempt to assign sequence of size 6 to extended slice of size 5
```

In [4]:

```python
def mul():
    return [lambda x : i *x for i in range(4)]
for m in mul():
    print(m(2))
```

```
6
6
6
6
```

In [5]:

```python
def div1(x,y):
    return x/y
def div2(x,y):
    return x//y

a = div1(5,2)
b = div1(5.,2)
c = div2(5,2)
print(a+b)
```

```
5.0
```

In [6]: ▶|
```python
b = 10
print(b**2)
a = [1,2,3,4,5]
print(a**2)
```

100

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-6-785727afe045> in <module>
      2 print(b**2)
      3 a = [1,2,3,4,5]
----> 4 print(a**2)

TypeError: unsupported operand type(s) for ** or pow(): 'list' and 'int'
```

In [ ]: ▶|