

```
In [1]: l=[]
1

Out[1]: []

In [3]: l.append(10)
l.append(20)
1

Out[3]: [10, 20]

In [5]: l.append(30)
l.append(40)
l.append(10)

In [7]: l

Out[7]: [10, 20, 30, 40, 10]

In [9]: len(l)

Out[9]: 5
```

```
In [22]: l1= l.copy()

In [24]: l1

Out[24]: [10, 20, 30, 40, 10]

In [26]: l1 ==l

Out[26]: True
```

```
In [28]: l9 =[
l9.append(2.3)
l9.append('nit')
l9.append(1+ 2j)
l9.append([1,2,3])

In [32]: l9

Out[32]: [2.3, 'nit', (1+2j), [1, 2, 3]]
```

```
In [43]: print(len(l))
print(len(l1))
print(len(l9))

5
5
4
```

```
In [47]: print(id(l))
print(id(l1))
print(id(l9))

2096833246208
2096874728832
2096876007616
```

can you write patterns

```
In [59]: l.count

Out[59]: <function list.count(value, /)>

In [63]: l.count(20)

Out[63]: 1

In [73]: l.count(10)

Out[73]: 2

In [82]: l9.count('nit')

Out[82]: 1

In [95]: l[0] = 230

In [97]: l

Out[97]: [230, 20, 30, 40, 10]

In [99]: len(l1)

Out[99]: 5

In [101... l1.clear()
l1

Out[101... []

In [105... len(l1)
```

Out[105... 0

In [113... `del l1`
`l1`

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[113], line 2  
      1 del l1  
----> 2 l1  
  
NameError: name 'l1' is not defined
```

In [119... 19

Out[119... [2.3, 'nit', (1+2j), [1, 2, 3]]

In [124... `19.pop(2)`

Out[124... (1+2j)

In [129... 19

Out[129... [2.3, 'nit', [1, 2, 3]]

In [144... `19.insert(3456)`
19

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[144], line 1  
----> 1 19.insert(3456)  
      2 19  
  
TypeError: insert expected 2 arguments, got 1
```

In [150... `19.insert(len(19),4)`

In [152... 19

Out[152... [2.3, 'nit', [1, 2, 3], 4]

In []:

In []:

In []:

In []:

In []:

In []:

In []:

In []: