

List

March 15, 2025

List

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

```
[1]: []
```

```
[2]: type(l)
```

```
[2]: list
```

```
[3]: l.append(10)  
     l
```

```
[3]: [10]
```

```
[4]: len(l)
```

```
[4]: 1
```

```
[5]: l.append(20)  
     l.append(30)  
     l.append(40)  
     l.append(50)
```

```
[6]: l
```

```
[6]: [10, 20, 30, 40, 50]
```

```
[7]: len(l)
```

```
[7]: 5
```

```
[8]: type(l)
```

```
[8]: list
```

```
[9]: id(l)
```

[9]: 2250633650560

[10]: 1

[10]: [10, 20, 30, 40, 50]

[11]: 1[:]

[11]: [10, 20, 30, 40, 50]

[12]: 1[0]

[12]: 10

[13]: 1[-1]

[13]: 50

[14]: 11 = 1.copy()
11

[14]: [10, 20, 30, 40, 50]

[15]: 11 == 1

[15]: True

[16]: len(11)
len(1)

[16]: 5

[17]: 11

[17]: [10, 20, 30, 40, 50]

[18]: 11.append(5.5)
11.append(True)
11.append(2+6j)
11

[18]: [10, 20, 30, 40, 50, 5.5, True, (2+6j)]

[19]: 1

[19]: [10, 20, 30, 40, 50]

[20]: 11

```
[20]: [10, 20, 30, 40, 50, 5.5, True, (2+6j)]
```

```
[21]: 11.count(20)
```

```
[21]: 1
```

```
[22]: 11.count(50)
```

```
[22]: 1
```

```
[23]: 12 = 11.copy()  
12
```

```
[23]: [10, 20, 30, 40, 50, 5.5, True, (2+6j)]
```

```
[24]: 12.remove(20)
```

```
[34]: 12
```

```
[34]: [10, 30, 40, 50, 5.5, True, (2+6j)]
```

```
[35]: 12.clear()
```

```
[36]: 12
```

```
[36]: []
```

```
[37]: del 12
```

```
[40]: 11
```

```
[40]: [10, 20, 30, 40, 50, 5.5, True, (2+6j)]
```

```
[41]: 1
```

```
[41]: [10, 20, 30, 40, 50]
```

```
[42]: for i in l:  
      print(i)
```

```
10  
20  
30  
40  
50
```

```
[43]: l.append([1,2,'Hello'])  
1
```

```
[43]: [10, 20, 30, 40, 50, [1, 2, 'Hello']]
```

```
[44]: l[5]
```

```
[44]: [1, 2, 'Hello']
```

```
[45]: l1
```

```
[45]: [10, 20, 30, 40, 50, 5.5, True, (2+6j)]
```

```
[46]: l1.pop()
```

```
[46]: (2+6j)
```

```
[47]: l1
```

```
[47]: [10, 20, 30, 40, 50, 5.5, True]
```

```
[53]: l1
```

```
[53]: [10, 20, 30]
```

```
[54]: l1 = [10,20,30,40,50,5.5, True]
```

```
[55]: l1
```

```
[55]: [10, 20, 30, 40, 50, 5.5, True]
```

```
[57]: l1.pop(2)
      l1
```

```
[57]: [10, 20, 40, 50, 5.5, True]
```

```
[58]: l1.insert(4,60)
      l1
```

```
[58]: [10, 20, 40, 50, 60, 5.5, True]
```

```
[60]: l
```

```
[60]: [10, 20, 30, 40, 50, [1, 2, 'Hello']]
```

```
[61]: l1.extend(l)
```

```
[62]: l1
```

```
[62]: [10, 20, 40, 50, 60, 5.5, True, 10, 20, 30, 40, 50, [1, 2, 'Hello']]
```

```
[63]: for i in l1:
      print(i)
```

```
10
20
40
50
60
5.5
True
10
20
30
40
50
[1, 2, 'Hello']
```

```
[64]: for i in enumerate(l1):
      print(i)
```

```
(0, 10)
(1, 20)
(2, 40)
(3, 50)
(4, 60)
(5, 5.5)
(6, True)
(7, 10)
(8, 20)
(9, 30)
(10, 40)
(11, 50)
(12, [1, 2, 'Hello'])
```

```
[65]: l1
```

```
[65]: [10, 20, 40, 50, 60, 5.5, True, 10, 20, 30, 40, 50, [1, 2, 'Hello']]
```

```
[66]: 60 in l1
```

```
[66]: True
```

```
[67]: 30 in l1
```

```
[67]: True
```

```
[68]: l1.reverse()
      l1
```

[68]: [[1, 2, 'Hello'], 50, 40, 30, 20, 10, True, 5.5, 60, 50, 40, 20, 10]

```
[70]: l1.reverse()  
l1
```

[70]: [10, 20, 40, 50, 60, 5.5, True, 10, 20, 30, 40, 50, [1, 2, 'Hello']]

```
[71]: l1.index(5.5)
```

[71]: 5