

4th march - list

```
In [1]: l=[10,20,30,40,40]
```

```
In [2]: for i in l:  
        print(i)
```

```
10  
20  
30  
40  
40
```

```
In [3]: l.append([1,2,3,'hi'])  
l
```

```
Out[3]: [10, 20, 30, 40, 40, [1, 2, 3, 'hi']]
```

```
In [4]: l.remove(40)  
l
```

```
Out[4]: [10, 20, 30, 40, [1, 2, 3, 'hi']]
```

```
In [5]: l.pop()
```

```
Out[5]: [1, 2, 3, 'hi']
```

```
In [6]: l1=[10,20,30,40,40,2.3,True,(1+2j)]  
l1
```

```
Out[6]: [10, 20, 30, 40, 40, 2.3, True, (1+2j)]
```

```
In [7]: l1.pop()
```

```
Out[7]: (1+2j)
```

```
In [8]: l1.pop()
```

```
Out[8]: True
```

```
In [10]: l1.pop(2)
```

```
Out[10]: 30
```

```
In [11]: print(l)  
print(l1)
```

```
[10, 20, 30, 40]  
[10, 20, 40, 2.3]
```

```
In [12]: l.pop(-1)
```

```
Out[12]: 40
```

```
In [34]: l.insert(35)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[34], line 1  
----> 1 l.insert(35)  
  
TypeError: insert expected 2 arguments, got 1
```

```
In [35]: l
```

```
Out[35]: [10, 20, 30, 35, 35, 35, 21, 21, 40, 20, 40, 40]
```

```
In [36]: l.append(40)
```

```
In [37]: l
```

```
Out[37]: [10, 20, 30, 35, 35, 35, 21, 21, 40, 20, 40, 40, 40]
```

```
In [39]: l.insert(1,35)  
l
```

```
Out[39]: [10, 35, 20, 30, 35, 35, 35, 35, 21, 21, 40, 20, 40, 40, 40]
```

```
In [49]: l.remove(10)  
l
```

```
Out[49]: [20, 30, 21, 21, 40, 20, 40, 40, 40]
```

```
l.remove(21)
```

```
In [50]: l
```

```
Out[50]: [20, 30, 21, 21, 40, 20, 40, 40, 40]
```

```
In [51]: l2=[]  
l2
```

```
Out[51]: []
```

```
In [52]: l2.extend(l1)  
l2
```

```
Out[52]: [10, 20, 40, 2.3]
```

```
In [53]: l1
```

```
Out[53]: [10, 20, 40, 2.3]
```

```
In [54]: l.extend(l1)
1
```

```
Out[54]: [20, 30, 21, 21, 40, 20, 40, 40, 40, 10, 20, 40, 2.3]
```

```
In [55]: print(l)
```

```
[20, 30, 21, 21, 40, 20, 40, 40, 40, 10, 20, 40, 2.3]
```

```
In [56]: print(l1)
```

```
[10, 20, 40, 2.3]
```

```
In [59]: l1.index(20)
```

```
Out[59]: 1
```

```
In [63]: l
```

```
Out[63]: [40, 40, 40, 40, 40, 30, 21, 21, 20, 20, 20, 10, 2.3]
```

```
In [61]: l.sort()
1
```

```
Out[61]: [2.3, 10, 20, 20, 20, 21, 21, 30, 40, 40, 40, 40, 40]
```

```
In [62]: l.sort(reverse=True)
1
```

```
Out[62]: [40, 40, 40, 40, 40, 30, 21, 21, 20, 20, 20, 10, 2.3]
```

```
In [64]: l3=[3,100,4]
```

```
In [65]: l3.sort()
13
```

```
Out[65]: [3, 4, 100]
```

```
In [66]: l3.sort(reverse=True)
13
```

```
Out[66]: [100, 4, 3]
```

```
In [67]: l6=[3,5.6,'a',1+2j]
l6.sort()
```

TypeError

Traceback (most recent call last)

Cell In[67], line 2

1 l6=[3,5.6,'a',1+2j]

----> 2 l6.sort()

TypeError: '<' not supported between instances of 'str' and 'float'

```
In [68]: l1
```

```
Out[68]: [10, 20, 40, 2.3]
```

```
In [69]: l1.reverse()  
l1
```

```
Out[69]: [2.3, 40, 20, 10]
```

```
In [70]: l1
```

```
Out[70]: [2.3, 40, 20, 10]
```

```
In [71]: l1[::-1]
```

```
Out[71]: [10, 20, 40, 2.3]
```

```
In [72]: l1
```

```
Out[72]: [2.3, 40, 20, 10]
```

```
In [73]: l1.reverse()  
l1
```

```
Out[73]: [10, 20, 40, 2.3]
```

```
In [74]: l1
```

```
Out[74]: [10, 20, 40, 2.3]
```

```
In [75]: l1.sort(reverse=True)  
l1
```

```
Out[75]: [40, 20, 10, 2.3]
```

```
In [ ]:
```