

Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32

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```
l=[1,2,3,3,4,5,7]
```

```
l
```

```
[1, 2, 3, 3, 4, 5, 7]
```

```
type(l)
```

```
<class 'list'>
```

```
len(l)
```

```
7
```

```
sum(l)
```

```
25
```

```
min(l)
```

```
1
```

```
max(l)
```

```
7
```

```
l.append(34)
```

```
l
```

```
[1, 2, 3, 3, 4, 5, 7, 34]
```

```
l.append([20,30])
```

```
l
```

```
[1, 2, 3, 3, 4, 5, 7, 34, [20, 30]]
```

```
l1=l.copy()
```

```
l1
```

```
[1, 2, 3, 3, 4, 5, 7, 34, [20, 30]]
```

```
l2=[]
```

```
l2
```

```
[]
```

```
l3=[10,20,33,20,5,1,20,10,50]
```

```
l3
```

```
[10, 20, 33, 20, 5, 1, 20, 10, 50]
```

```
len(l3)
```

```
9
```

```
l3.count(10)
```

```
2
```

```
l3.count(20)
```

```
3
```

```
l3.extend(44)
```

Traceback (most recent call last):

File "<pyshell#20>", line 1, in <module>

```
l3.extend(44)
```

```
TypeError: 'int' object is not iterable
l4=[1,2,3]
l3.extend(l4)
l3
[10, 20, 33, 20, 5, 1, 20, 10, 50, 1, 2, 3]
len(l3)
12
l3.index(20)
1
l3.index(33)
2
l3.index(1)
5
l3
[10, 20, 33, 20, 5, 1, 20, 10, 50, 1, 2, 3]
l3.insert(2,34)
l3
[10, 20, 34, 33, 20, 5, 1, 20, 10, 50, 1, 2, 3]
len(l3)
13
l3.pop()
3
l3.remove(20)
l3
[10, 34, 33, 20, 5, 1, 20, 10, 50, 1, 2]
l3.remove(66)
Traceback (most recent call last):
  File "<pyshell#35>", line 1, in <module>
    l3.remove(66)
ValueError: list.remove(x): x not in list
l3.count(66)
0
l3.index(66)
Traceback (most recent call last):
  File "<pyshell#37>", line 1, in <module>
    l3.index(66)
ValueError: 66 is not in list
l3
[10, 34, 33, 20, 5, 1, 20, 10, 50, 1, 2]
l3.reverse()
l3
```

```
[2, 1, 50, 10, 20, 1, 5, 20, 33, 34, 10]
l2
[]
l3
[2, 1, 50, 10, 20, 1, 5, 20, 33, 34, 10]
l4
[1, 2, 3]
l4.clear()
l4
[]
l
[1, 2, 3, 3, 4, 5, 7, 34, [20, 30]]
l3
[2, 1, 50, 10, 20, 1, 5, 20, 33, 34, 10]
l3.sort()
l3
[1, 1, 2, 5, 10, 10, 20, 20, 33, 34, 50]
l3.sort(reverse=False)
l3
[1, 1, 2, 5, 10, 10, 20, 20, 33, 34, 50]
l3.sort(reverse=True)
l3
[50, 34, 33, 20, 20, 10, 10, 5, 2, 1, 1]
l4=[3,4,1,-1]
sorted(l4)
[-1, 1, 3, 4]
sorted(l4,reverse=False)
[-1, 1, 3, 4]
sorted(l4,reverse=True)
[4, 3, 1, -1]
l3
[50, 34, 33, 20, 20, 10, 10, 5, 2, 1, 1]
l5=[10,2,3,10,1,5,4,3]
len(l5)
8
l5
[10, 2, 3, 10, 1, 5, 4, 3]
l5[3]
10
l5[-4]
1
```

```
l5[8]
```

```
Traceback (most recent call last):
```

```
File "<pyshell#64>", line 1, in <module>
```

```
l5[8]
```

```
IndexError: list index out of range
```

```
l5[-7]
```

```
2
```

```
l5[-6]
```

```
3
```

```
l5
```

```
[10, 2, 3, 10, 1, 5, 4, 3]
```

```
l5[-7]=11
```

```
l5
```

```
[10, 11, 3, 10, 1, 5, 4, 3]
```

```
l5[3]=30
```

```
l5
```

```
[10, 11, 3, 30, 1, 5, 4, 3]
```

```
l5[1:5:1]
```

```
[11, 3, 30, 1]
```

```
l5[2:6:2]
```

```
[3, 1]
```

```
l5[2:5:-1]
```

```
[]
```

```
l5[-1:-6:-2]
```

```
[3, 5, 30]
```

```
l5[-1:-5:1]
```

```
[]
```

```
l5
```

```
[10, 11, 3, 30, 1, 5, 4, 3]
```

```
l5[1:5:1]
```

```
[11, 3, 30, 1]
```

```
l5[1:5:1]=[1,2,3]
```

```
l5
```

```
[10, 1, 2, 3, 5, 4, 3]
```

```
l5[-1:-6:-2]
```

```
[3, 5, 2]
```

```
l5[-1:-6:-2]=[11,22,33]
```

```
l5
```

```
[10, 1, 33, 3, 22, 4, 11]
```

```
l5[3:7:2]
```

```
[3, 4]
```

```
l5[3:7:2]=[123,125,127]
```

```
Traceback (most recent call last):
```

```
File "<pyshell#85>", line 1, in <module>
```

```
l5[3:7:2]=[123,125,127]
```

```
ValueError: attempt to assign sequence of size 3 to extended slice of size 2
```

```
name=["surya","kiran","cse"]
```

```
type(name)
```

```
<class 'list'>
```

```
len(name)
```

```
3
```

```
>>> sum(name)
```

```
Traceback (most recent call last):
```

```
File "<pyshell#89>", line 1, in <module>
```

```
sum(name)
```

```
TypeError: unsupported operand type(s) for +: 'int' and 'str'
```

```
>>> min(name)
```

```
'cse'
```

```
>>> max(name)
```

```
'surya'
```

```
>>> demo=[1,2,"klu",5,5.6,"cse"]
```

```
>>> l5[5]
```

```
4
```

```
>>> type(l5[5])
```

```
<class 'int'>
```