

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=[1,2,3,4,40,5,2]
```

```
l  
[1, 2, 3, 4, 40, 5, 2]
```

```
type(l)  
<class 'list'>
```

```
len(l)
```

```
7
```

```
sum(l)
```

```
57
```

```
min(l)
```

```
1
```

```
max(l)
```

```
40
```

```
l.append(50)
```

```
l
```

```
[1, 2, 3, 4, 40, 5, 2, 50]
```

```
len(l)
```

```
8
```

```
l1=[]
```

```
l2=[10,20,30]
```

```
l2
```

```
[10, 20, 30]
```

```
l
```

```
[1, 2, 3, 4, 40, 5, 2, 50]
```

```
l1
```

```
[]
```

```
l2
```

```
[10, 20, 30]
```

```
l.append(l2)
```

```
l
```

```
[1, 2, 3, 4, 40, 5, 2, 50, [10, 20, 30]]
```

```
l3=l.copy()
```

```
l3
```

```
[1, 2, 3, 4, 40, 5, 2, 50, [10, 20, 30]]
```

```
l
```

```
[1, 2, 3, 4, 40, 5, 2, 50, [10, 20, 30]]
```

```
l1
```

```
[]
l2
[10, 20, 30]
l3
[1, 2, 3, 4, 40, 5, 2, 50, [10, 20, 30]]
l.count(2)
2
l.count(5)
1
l2
[10, 20, 30]
l2.extend(40)
Traceback (most recent call last):
  File "<pyshell#28>", line 1, in <module>
    l2.extend(40)
TypeError: 'int' object is not iterable
l4=[3,4,5,6]
l2.extend(l4)
l2
[10, 20, 30, 3, 4, 5, 6]
len(l2)
7
l2.index(3)
3
l2.index(50)
Traceback (most recent call last):
  File "<pyshell#34>", line 1, in <module>
    l2.index(50)
ValueError: 50 is not in list
l2.append(3)
l2
[10, 20, 30, 3, 4, 5, 6, 3]
l2.count(3)
2
l2.index(3)
3
l2.insert(4,40)
l2
[10, 20, 30, 3, 40, 4, 5, 6, 3]
len(l2)
9
```

```
l2.pop()
3
l2
[10, 20, 30, 3, 40, 4, 5, 6]
l2
[10, 20, 30, 3, 40, 4, 5, 6]
l2.remove(4)
l2
[10, 20, 30, 3, 40, 5, 6]
l2.append(3)
l2
[10, 20, 30, 3, 40, 5, 6, 3]
l2.remove(3)
l2
[10, 20, 30, 40, 5, 6, 3]
l2.remove(50)
Traceback (most recent call last):
  File "<pyshell#51>", line 1, in <module>
    l2.remove(50)
ValueError: list.remove(x): x not in list
l2.reverse()
l2
[3, 6, 5, 40, 30, 20, 10]
sorted(l2)
[3, 5, 6, 10, 20, 30, 40]
l2
[3, 6, 5, 40, 30, 20, 10]
sorted(l2,reverse=True)
[40, 30, 20, 10, 6, 5, 3]
l2
[3, 6, 5, 40, 30, 20, 10]
l2.sort()
l2
[3, 5, 6, 10, 20, 30, 40]
l2.sort(reverse=True)
l2
[40, 30, 20, 10, 6, 5, 3]
l2
[40, 30, 20, 10, 6, 5, 3]
l2[3]
10
```

```
l2[-5]  
20
```

```
l2[-7]  
40
```

```
l2[-8]
```

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

```
File "<pyshell#67>", line 1, in <module>
```

```
l2[-8]
```

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

```
l2[-6]
```

```
30
```

```
l2[10]
```

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

```
File "<pyshell#69>", line 1, in <module>
```

```
l2[10]
```

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

```
len(l2)
```

```
7
```

```
l2
```

```
[40, 30, 20, 10, 6, 5, 3]
```

```
l2[5]=50
```

```
l2
```

```
[40, 30, 20, 10, 6, 50, 3]
```

```
l2[-5]=55
```

```
l2
```

```
[40, 30, 55, 10, 6, 50, 3]
```

```
len(l2)
```

```
7
```

```
l2[2:5:1]
```

```
[55, 10, 6]
```

```
l2[-3:-5:2]
```

```
[]
```

```
l2[-5:0:2]
```

```
[]
```

```
l2[-5:1:2]
```

```
[]
```

```
l2[-5:-1:2]
```

```
[55, 6]
```

```
l2
```

```
[40, 30, 55, 10, 6, 50, 3]
```

```

l2[2:5:1]
[55, 10, 6]
l2[2:5:1]=[45,46,47]
l2
[40, 30, 45, 46, 47, 50, 3]
l2[-5:-1:2]
[45, 47]
l2[-5:-1:2]=[65]
Traceback (most recent call last):
  File "<pyshell#87>", line 1, in <module>
    l2[-5:-1:2]=[65]
ValueError: attempt to assign sequence of size 1 to extended slice of size 2
\
l2
[40, 30, 45, 46, 47, 50, 3]
l2[2:5:1]
[45, 46, 47]
l2[2:5:1]=[50]
l2
[40, 30, 50, 50, 3]
l
[1, 2, 3, 4, 40, 5, 2, 50, [40, 30, 50, 50, 3]]
l1
[]
l2
[40, 30, 50, 50, 3]
l3
[1, 2, 3, 4, 40, 5, 2, 50, [40, 30, 50, 50, 3]]
l4
[3, 4, 5, 6]
names=["klu","surya","cse"]
len(names)
3
sum(names)
Traceback (most recent call last):
  File "<pyshell#99>", line 1, in <module>
    sum(names)
TypeError: unsupported operand type(s) for +: 'int' and 'str'
>>> min(names)
'cse'
>>> max(names)

```

```
'surya'  
>>> l2  
[40, 30, 50, 50, 3]  
>>> l2.clear()  
>>> l2  
[]  
>>> demo=[1,1.5,"surya",2]  
>>> demo  
[1, 1.5, 'surya', 2]
```