```
In [1]: 11=[]
         11
 Out[1]: []
 In [2]: 12=[10,20,30]
 Out[2]: [10, 20, 30]
 In [3]: print(type(l1))
       <class 'list'>
 In [4]: 13=[20.7,5.4,6.3,70.6]
 Out[4]: [20.7, 5.4, 6.3, 70.6]
 In [5]: 14=['sai','ram']
 Out[5]: ['sai', 'ram']
 In [6]: 15=[10, 'sai',[1,2,3],[150.3,4]]
 Out[6]: [10, 'sai', [1, 2, 3], [150.3, 4]]
 In [7]: 12[0]
 Out[7]: 10
 In [9]: 15
Out[9]: [10, 'sai', [1, 2, 3], [150.3, 4]]
In [10]: 15[2][0]
Out[10]: 1
In [12]: 14[-1]
Out[12]: 'ram'
In [14]: 16=['one','two','three','four','five']
         16
Out[14]: ['one', 'two', 'three', 'four', 'five']
In [15]: 16[0:3]
Out[15]: ['one', 'two', 'three']
In [16]: 16[2:5]
```

```
Out[16]: ['three', 'four', 'five']
In [17]: 16[:3]
Out[17]: ['one', 'two', 'three']
In [18]: 16[:2]
Out[18]: ['one', 'two']
In [19]: 16[-1]
Out[19]: 'five'
In [20]: 16[-3:]
Out[20]: ['three', 'four', 'five']
In [21]: 16[-3:-1]
Out[21]: ['three', 'four']
In [22]: 16[:]
Out[22]: ['one', 'two', 'three', 'four', 'five']
In [23]: 16[::]
Out[23]: ['one', 'two', 'three', 'four', 'five']
In [24]: 16.append('six')
In [25]: 16
Out[25]: ['one', 'two', 'three', 'four', 'five', 'six']
In [26]: 16.insert(6, 'seven')
         16
Out[26]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven']
In [27]: 16.insert(1,"ONE")
         16
Out[27]: ['one', 'ONE', 'two', 'three', 'four', 'five', 'six', 'seven']
In [28]: 16.remove('ONE')
         16
Out[28]: ['one', 'two', 'three', 'four', 'five', 'six', 'seven']
In [29]: 16.pop()
Out[29]: 'seven'
```

```
In [30]: 16.pop(4)
Out[30]: 'five'
In [31]: 16
Out[31]: ['one', 'two', 'three', 'four', 'six']
In [32]: del 16[4]
In [33]: 16
Out[33]: ['one', 'two', 'three', 'four']
In [34]: del 16[2]
Out[34]: ['one', 'two', 'four']
In [37]: 16.clear()
Out[37]: []
         del 16 16
In [38]: 16=['one','two','three']
Out[38]: ['one', 'two', 'three']
In [39]: 17=16
In [40]: 17
Out[40]: ['one', 'two', 'three']
In [41]: id(16),id(17)
Out[41]: (2745277032704, 2745277032704)
In [42]: 18=16.copy()
In [43]: 18
Out[43]: ['one', 'two', 'three']
In [45]: id(16),id(18)
Out[45]: (2745277032704, 2745279623936)
In [46]: 16[0]=1
         16
```

```
Out[46]: [1, 'two', 'three']
In [47]: 17,18
Out[47]: ([1, 'two', 'three'], ['one', 'two', 'three'])
In [48]: 11
Out[48]: []
In [49]: 11=12+13
In [50]: 11
Out[50]: [10, 20, 30, 20.7, 5.4, 6.3, 70.6]
In [52]: 11.extend(12)
Out[52]: [10, 20, 30, 20.7, 5.4, 6.3, 70.6, 10, 20, 30, 10, 20, 30]
In [53]: 10 in 11
Out[53]: True
In [54]: 'ten' in 11
Out[54]: False
In [55]: 12
Out[55]: [10, 20, 30]
In [56]: 11
Out[56]: [10, 20, 30, 20.7, 5.4, 6.3, 70.6, 10, 20, 30, 10, 20, 30]
In [57]: 13
Out[57]: [20.7, 5.4, 6.3, 70.6]
In [60]: 12.reverse()
         12
Out[60]: [30, 20, 10]
In [61]: | 12=12[::-1]
         12
Out[61]: [10, 20, 30]
In [62]: 13.sort()
         13
Out[62]: [5.4, 6.3, 20.7, 70.6]
```

```
In [63]: 13.sort(reverse=True)
         13
Out[63]: [70.6, 20.7, 6.3, 5.4]
In [64]: sorted(13)
Out[64]: [5.4, 6.3, 20.7, 70.6]
In [65]: 13
Out[65]: [70.6, 20.7, 6.3, 5.4]
In [66]: for i in 13:
             print(i)
        70.6
        20.7
        6.3
        5.4
In [67]: for i in enumerate(13):
            print(i)
        (0, 70.6)
        (1, 20.7)
        (2, 6.3)
        (3, 5.4)
In [68]: 12
Out[68]: [10, 20, 30]
In [69]: 11
Out[69]: [10, 20, 30, 20.7, 5.4, 6.3, 70.6, 10, 20, 30, 10, 20, 30]
In [70]: 11.count(10)
Out[70]: 3
In [72]: all(l1)
Out[72]: True
         any(I1)
In [73]: any(12)
Out[73]: True
 In [ ]:
```