```
In [1]: #Sorting the data of ndarray
         import numpy as np
 In [2]: | a=np.array([[10,15,25],[35,14,12],[36,28,19]])
         print(a,type(a),a.shape)
          [[10 15 25]
          [35 14 12]
          [36 28 19]] <class 'numpy.ndarray'> (3, 3)
 In [4]: a.shape=(9,)
         print(a)
          [10 15 25 35 14 12 36 28 19]
 In [5]: |np.sort(a)
 Out[5]: array([10, 12, 14, 15, 19, 25, 28, 35, 36])
 In [7]: |np.sort(a)[::-1]
 Out[7]: array([36, 35, 28, 25, 19, 15, 14, 12, 10])
 In [8]: | a=np.array([[10,15,25],[35,14,12],[36,28,19]])
         print(a,type(a),a.shape)
         [[10 15 25]
          [35 14 12]
          [36 28 19]] <class 'numpy.ndarray'> (3, 3)
In [12]: | np.sort(a) # By default row-wise sorting
Out[12]: array([[10, 15, 25],
                 [12, 14, 35],
                 [19, 28, 36]])
In [11]: | a=np.array([[10,15,25],[35,14,12],[36,28,19]])
         print(a,type(a),a.shape)
          [[10 15 25]
          [35 14 12]
          [36 28 19]] <class 'numpy.ndarray'> (3, 3)
In [13]: np.sort(a,axis=1) # row-wise sorting
Out[13]: array([[10, 15, 25],
                 [12, 14, 35],
                 [19, 28, 36]])
```

```
In [16]: | a=np.array([[10,15,25],[35,14,12],[36,28,19]])
         print(a,type(a),a.shape)
         [[10 15 25]
          [35 14 12]
           [36 28 19]] <class 'numpy.ndarray'> (3, 3)
In [17]: | np.sort(a,axis=0) # column-wise sorting
Out[17]: array([[10, 14, 12],
                 [35, 15, 19],
                 [36, 28, 25]])
In [18]: | a=np.array([[10,15,25],[35,14,12],[36,28,19],[11,75,22]])
         print(a,type(a),a.shape)
          [[10 15 25]
          [35 14 12]
          [36 28 19]
           [11 75 22]] <class 'numpy.ndarray'> (4, 3)
In [19]: a.shape=(2,3,2)
         print(a)
          [[[10 15]
           [25 35]
           [14 12]]
           [[36 28]
           [19 11]
           [75 22]]]
In [20]: np.sort(a)
Out[20]: array([[[10, 15],
                  [25, 35],
                  [12, 14]],
                 [[28, 36],
                  [11, 19],
                  [22, 75]]])
In [21]:
         a=np.array([[10,15,25],[35,14,12],[36,28,19],[11,75,22]])
         a.shape=(2,3,2)
         print(a)
          [[[10 15]
           [25 35]
           [14 12]]
           [[36 28]
           [19 11]
           [75 22]]]
```

```
In [23]: x=np.sort(a[0],axis=0)
         y=np.sort(a[1],axis=0)
In [24]: print(x)
         print(y)
         [[10 12]
          [14 15]
          [25 35]]
         [[19 11]
          [36 22]
          [75 28]]
In [25]: a=np.array([[10,15,25],[35,14,12],[36,28,19],[11,75,22]])
         a.shape=(2,3,2)
         print(a)
         [[[10 15]
           [25 35]
           [14 12]]
           [[36 28]
           [19 11]
           [75 22]]]
In [26]: x=np.sort(a[0],axis=1)
         y=np.sort(a[1],axis=1)
         print(x)
         print(y)
         [[10 15]
          [25 35]
          [12 14]]
         [[28 36]
          [11 19]
          [22 75]]
 In [ ]:
```