

Sorting the date of the NDAarray by using sort()

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In [1]: import numpy as np
a=np.array([12,5,6,45,12,78,15,22,19])
print(a,type(a))

[12  5  6 45 12 78 15 22 19] <class 'numpy.ndarray'>

In [2]: np.sort(a)

Out[2]: array([ 5,  6, 12, 12, 15, 19, 22, 45, 78])

In [3]: a

Out[3]: array([12,  5,  6, 45, 12, 78, 15, 22, 19])

In [4]: a=np.sort(a)

In [5]: print(a,type(a))

[ 5  6 12 12 15 19 22 45 78] <class 'numpy.ndarray'>

In [6]: print(a[::-1]) # for reversing the sorted value from ascending to descending

[78 45 22 19 15 12 12  6  5]

In [9]: a

Out[9]: array([ 5,  6, 12, 12, 15, 19, 22, 45, 78])

In [8]: b= a[::-1]
b

Out[8]: array([78, 45, 22, 19, 15, 12, 12,  6,  5])

In [12]: a=np.array([12,5,6,45,12,78,15,22,19])
a.shape=(3,3)
a

Out[12]: array([[12,  5,  6],
               [45, 12, 78],
               [15, 22, 19]])

In [13]: np.sort(a) # row wise sorting default as axis =1

Out[13]: array([[ 5,  6, 12],
               [12, 45, 78],
               [15, 19, 22]])

In [15]: a

Out[15]: array([[12,  5,  6],
               [45, 12, 78],
               [15, 22, 19]])

In [14]: np.sort(a,axis=1)

Out[14]: array([[ 5,  6, 12],
               [12, 45, 78],
               [15, 19, 22]])

In [16]: np.sort(a,axis=0) #column wise sorting where coulmn is axis =0

Out[16]: array([[12,  5,  6],
               [15, 12, 19],
               [45, 22, 78]])

In [19]: a.shape=(9,)
a

Out[19]: array([12,  5,  6, 45, 12, 78, 15, 22, 19])

In [22]: a=np.sort(a)
a

Out[22]: array([ 5,  6, 12, 12, 15, 19, 22, 45, 78])

In [23]: a=np.sort(a[::-1])
a

Out[23]: array([ 5,  6, 12, 12, 15, 19, 22, 45, 78])

In [ ]:
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