



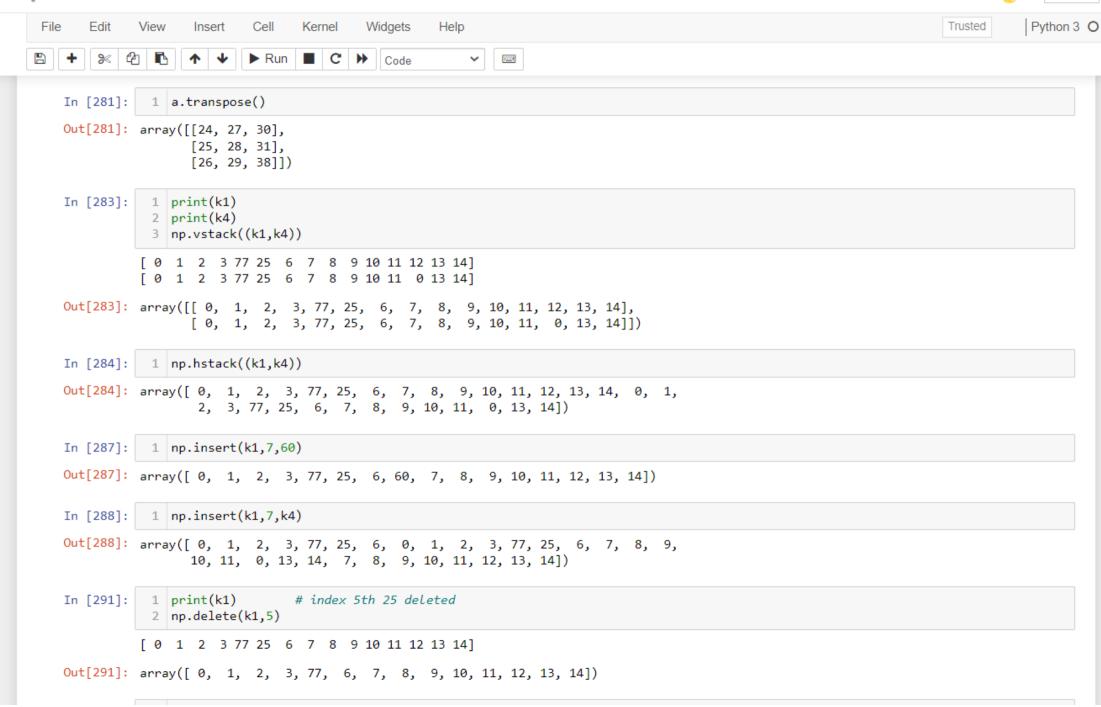
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                 [0., 0., 0., 0., 0., 0.]])
In [105]: 1 np.ones((4,5))
Out[105]: array([[1., 1., 1., 1., 1.],
                 [1., 1., 1., 1., 1.]
                 [1., 1., 1., 1., 1.],
                 [1., 1., 1., 1., 1.]
           1 np.full((4,6),4)
In [109]:
Out[109]: array([[4, 4, 4, 4, 4, 4],
                [4, 4, 4, 4, 4, 4],
                 [4, 4, 4, 4, 4, 4],
                 [4, 4, 4, 4, 4, 4]
In [118]:
           1 d=(24,25,26,27,28) ## diagonal function array
            2 np.diag(d)
Out[118]: array([[24, 0, 0, 0, 0],
                 [0, 25, 0, 0, 0],
                 [0, 0, 26, 0, 0],
                 [0, 0, 0, 27, 0],
                 [0, 0, 0, 0, 28]])
In [143]:
           1 import random # random generate integer
            2 np.random.random(3)[2]
Out[143]: 0.3988726505824248
           1 np.random.rand(4,3)
In [156]:
Out[156]: array([[0.14635282, 0.10153919, 0.25619568],
                 [0.49906035, 0.9714526, 0.44474371],
                 [0.41101535, 0.19550629, 0.56378519],
                 [0.53453225, 0.52147374, 0.0928892 ]])
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In [218]:
          1 k=np.array([[[2,3,4],[5,6,7],[8,9,10],[45,2,8]]])
           2 k.shape
Out[218]: (1, 4, 3)
          1 k1=np.arange(15)
In [220]:
           2 k1
Out[220]: array([ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14])
In [223]:
          1 k2=k1
           2 k2
Out[223]: array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14])
In [226]:
          1 k2[5]=25
           2 print(k2)
           3 print(k1)
          [0 1 2 3 4 25 6 7 8 9 10 11 12 13 14]
         [0 1 2 3 4 25 6 7 8 9 10 11 12 13 14]
In [234]:
          1 print(np.shares_memory(k1,k2))
           2 print(id(k1))
           3 print(id(k2))
          True
          2351235265808
          2351235265808
           1 k3=k1.view()
In [252]:
           2 np.shares memory(k1,k3)
Out[252]: True
```





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