```
In [1]: import numpy as np
 In [4]: | a=np.array([range(27)])
         b=a.reshape(3,3,3)
         print(b)
         print(b[1:,1:,1:])
         [[[ 0 1 2]
            [ 3 4 5]
            [6 7 8]]
          [[ 9 10 11]
            [12 13 14]
            [15 16 17]]
          [[18 19 20]
            [21 22 23]
            [24 25 26]]]
          [[[13 14]
            [16 17]]
          [[22 23]
            [25 26]]]
 In [8]:
         z=np.array([range(9)])
         y=z.reshape(3,3)
         print(y)
         x=np.array_split(y,3 , axis=1)
         print(x)
         [[0 1 2]
          [3 4 5]
          [6 7 8]]
          [array([[0],
                 [3],
                 [6]]), array([[1],
                 [4],
                 [7]]), array([[2],
                 [5],
                 [8]])]
In [13]: | from numpy import random
         i=random.choice([1,2,3,4,5,6,7,8,9])
         print(i)
         1
In [17]: | w=random.randint(100, size=(3,3))
         print(w)
          [[63 34 59]
          [50 87 57]
          [40 36 66]]
```

```
In [19]: from numpy import random
         i=random.choice([1,2,3,4,5,6,7,8,9],size=(3,4))
         print(i)
         [[2 1 2 9]
          [5 4 5 8]
          [8 7 5 2]]
In [20]: | from numpy import random
         i=random.choice([1,2,3,4,59], p=[0.5,0.1,0.1,0.1,0.2], size=(50,50))
         print(i)
         [[59 3 1 ... 59 2 4]
          [59 1 1 ... 59 1 59]
          [1 4 2 ... 3 4 3]
          [2 4 1 ... 2 1 59]
          [59 1 4 ... 1 1 1]
          [1 1 1 \dots
                         1 1 2]]
In [21]: | from numpy import random
         i=random.choice([1,2,3,4,59], p=[0.5,0.1,0.1,0.1,0.2], size=(50,50))
         print(i)
         o=random.normal(size=(3,3))
         print(o)
         [[ 4 59 1 ... 4 1 4]
          [ 4 59 59 ... 1 1 1]
          [ 1 59 1 ...
                         1 1 59]
          [ 2 4 1 ... 3
          [ 2 2 59 ... 1 1
                              1]
          [1 \ 1 \ 1 \ \dots \ 1 \ 4 \ 4]]
         [[-0.81923251 -1.19301402 -0.07271607]
          [ 0.58707434  0.09792596  0.10745177]
          [-0.51269374 -1.56835067 0.52434538]]
In [22]:
         [[-1.14820015 -1.37632278 0.37499505]
          [ 1.6185771 -0.05647283 -0.99366581]
          [ 0.4565269
                        0.6391119
                                    0.5944739 ]]
In [23]: | o=random.normal(size=(3,3))
         print(o)
         [[ 0.06340166 -1.04123346  0.63100974]
          [-0.44779221 -1.7492937
                                    0.20775008]
          [ 0.02162068 -1.18646045 -0.48647485]]
 In [ ]:
```