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```
In [11]:
          import numpy as np
          a = np.zeros((3,3), dtype = int)
          print(a)
          [[0 0 0]]
           [0 0 0]
           [0 0 0]]
In [12]:
          import numpy as np
          a = np.ones(3, dtype = int)
          print(a)
          [1 \ 1 \ 1]
In [23]:
          import numpy as np
          a = np.array([1,2,3,4])
          b=len(a)
          for i in range(b):
               print(a[i])
          1
          2
          3
          4
In [34]:
          import numpy as np
          a =np.zeros(4)
          b=len(a)
          for i in range(b):
               c=int(input("enter value:"))
               a[i]=c
          print(a)
          enter value:1
          enter value:2
          enter value:3
          enter value:4
          [1. 2. 3. 4.]
In [46]:
          import numpy as np
          a=np.array([1,2,1,3,4,2,1,2])
          count = collections.Counter(a)
          print(count)
          Counter({1: 3, 2: 3, 3: 1, 4: 1})
In [48]:
          import numpy as np
          a=np.array([1,2,3,4,2,1,2,1,2,1,2])
          print(np.count_nonzero(a==2))
          5
In [57]:
          import numpy as np
          a=np.array([1,2,3,4,2,1,2,1,2,1,2])
          print(np.count_nonzero(a<4))</pre>
          10
```

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```
In [55]:
          import numpy as np
          a=np.array([1,2,3,4,2,1,2,1,2,1,2])
          print(max(a))
         4
In [54]:
          import numpy as np
          a=np.array([1,2,3,4,2,1,2,1,2,1,2])
          print(min(a))
         1
In [52]:
          import numpy as np
          a=np.array([1,2,3,4,2,1,2,1,2,1,2])
          print(2 in a)
         True
In [53]:
          import numpy as np
          a=np.array([1,2,3,4,2,1,2,1,2,1,2])
          print(7 in a)
         False
In [58]:
          import numpy as np
          a=np.array([1,2,1,3,4,2,1,2])
          count = collections.Counter(a<4)</pre>
          print(count)
         Counter({True: 7, False: 1})
 In [ ]:
```