

```
In [3]: import numpy as np
x=np.array([1,2,3,4,5,6,1,2,3,4,5])
print(np.count_nonzero(x == 2))
```

0

```
In [25]: #count the occurrence of each element
import numpy as np
a=np.array([1,2,3,5,2,3,4])
print(np.count_nonzero(a==3))
```

2

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In [18]: import numpy as np
import collections
a=np.array([12,3,4,52,3,45,89,1,45])
print(a)
c=collections.Counter(a)
print(c)
```

[12 3 4 52 3 45 89 1 45]
Counter({3: 2, 45: 2, 12: 1, 4: 1, 52: 1, 89: 1, 1: 1})

```
In [ ]: #all ones
import numpy as np
b=np.ones(5,dtype=int)
print(b)
```

```
a=np.array([1,2,3,5,2,3,4])
print(a.count())
```

```
In [ ]: q=np.zeros(3)

s=int(input("enter the size"))
for i in range(s):
    g=int(input("enter the value"))
    q[i]=g
print(q)
```

```
In [ ]: #matrix with zeros
import numpy as np

c=np.zeros((3,3),dtype=int)
print(c)
```

```
In [7]: q=np.zeros(3)

s=int(input("enter the size"))
for i in range(s):
    g=int(input("enter the value"))
    q[i]=g
print(q)
```

```
enter the size3  
enter the value1  
enter the value2  
enter the value3  
[1. 2. 3.]
```

```
In [11]: p=np.array([1,2,3,4,5,6])  
print(np.count_nonzero(p> 2))
```

4

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In [12]: q=np.array([3,4,5,6,7,8])  
print(np.count_nonzero(q<4))
```

1

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In [26]: s=np.array([3,4,5,6,7,8])  
print(np.array(i in s))
```

True

```
In [17]: w=np.array([4,5,6,7,70,9])  
print(np.max(w),np.min(w))
```

70 4

```
In [16]: #for loop  
a=np.array([1,2,3,4,5])  
for i in range(len(a)):  
    print(a[i])
```

1
2
3
4
5

In []: