In [1]:
```python
import numpy as np
a=np.zeros(3,dtype=int)
a
```

Out[1]: `array([0, 0, 0])`

In [2]:
```python
b=np.ones((3,3),dtype=int)
b
```

Out[2]:
```
array([[1, 1, 1],
       [1, 1, 1],
       [1, 1, 1]])
```

In [3]:
```python
for i in a:
    print(i)
```

```
0
0
0
```

In [4]:
```python
n=int(input("enter the array size:"))
m=np.zeros(n,dtype=int)
for i in range(len(m)):
    m[i]=int(input("enter new element"))

m
```

```
enter the array size:3
enter new element1
enter new element2
enter new element3
```
Out[4]: `array([1, 2, 3])`

In [5]:
```python
arr=np.array([1,2,3,4,4,5,6,6,7,5,4,5,6,3,5,4])
```

In [6]:
```python
import collections
print("Original array:")
counter = collections.Counter(arr)
print(counter)
```

```
Original array:
Counter({4: 4, 5: 4, 6: 3, 3: 2, 1: 1, 2: 1, 7: 1})
```

In [7]:
```python
counter = collections.Counter(arr<=4)
print(counter)
```

```
Counter({True: 8, False: 8})
```

In [8]:
```python
np.count_nonzero(arr==2)
```

Out[8]: `1`

In [9]:
```python
max(arr)
```

Out[9]:   7

In [10]:
```python
min(arr)
```

Out[10]:   1

In [11]:
```python
print(2 in arr)
print(8 in arr)
```

True
False

In [ ]: