In [5]:

```
import numpy as np
j=0
x=int(input("enter size "))
a2=np.zeros(x,dtype=int)
for j in range(0,x,1):
    a2[j]=int(input("enter value "))
print(a2)
```

```
enter size 3
enter value 1
enter value 2
enter value 3
[1 2 3]
```

In [16]:

```
a4=np.array([2,4,2,4,3,3,2,5,4,4,4])
x=len(a4)
a3=np.zeros(x,dtype=int)
for i in range(0,x,1):
    count=0
    for j in range(0,x,1):
        if(a4[i]==a4[j]):
            count=count+1
    a3[i]=count
print(a3)
```

```
[3 5 3 5 2 2 3 1 5 5 5]
```

In [28]:

```
c=0
y=int(input("enter value from a4"))
for i in a4:
    if(i==y):
        c=c+1
print(c)
```

```
enter value from a42
3
```

In [23]:

```
l=0
for i in a4:
    if(i<4):
        l=l+1
print(l)
```

```
5
```

In [25]:

```
a=int(input("enter value to check"))
if a in a4:
    print("exist")
```

```
enter value to check4
exist
```

In [26]:

```
max(a4)
```

Out[26]:

```
5
```

In [27]:

```
min(a4)
```

Out[27]:

```
2
```

In [29]:

```
import numpy as np
a=np.zeros(3,dtype=int)
print(a)
```

```
[0 0 0]
```

In [30]:

```
b=np.ones(3,dtype=int)
print(b)
```

```
[1 1 1]
```

In [31]:

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

In [32]:

```
y=np.matrix([a,c,d])
print(y)
```

```
[[0 0 0]
 [0 0 0]
 [0 0 0]]
```

In [33]:

```
a1=np.array([3,5,6,7])
for i in a1:
    print(i)
```

```
3
5
6
7
```

In [ ]:

```

```