```
In [5]:
import statistics
In [21]:
p = [2,3,4,4,5,6,7,9]
In [7]:
statistics.mean(p)
Out[7]:
5
In [8]:
import numpy as np
In [9]:
q = [2, 4, 4, 4, 5, 5, 7, 9]
In [10]:
np.mean(q)
Out[10]:
5.0
In [12]:
np.std(q)
Out[12]:
2.0
In [13]:
np.median(q)
Out[13]:
4.5
In [14]:
np.max(q)
Out[14]:
9
In [15]:
np.min(q)
Out[15]:
2
In [17]:
np.percentile(q, 25)
Out[17]:
```

4.0

```
In [18]:
np.percentile(q,50)
Out[18]:
4.5
In [19]:
np.percentile(q,75)
Out[19]:
5.5
In [20]:
np.var(q)
Out[20]:
4.0
In [22]:
np.var(p)
Out[22]:
4.5
In [25]:
P = [2,4,4,4,5,5,7,9]
Q = [10, 13, 15, 14, 13, 16, 18, 21]
In [26]:
np.cov(P,Q)
Out[26]:
array([[ 4.57142857, 6.85714286], [ 6.85714286, 11.42857143]])
In [28]:
np.cov(P,Q)[1,0]
Out[28]:
6.857142857142857
In [29]:
np.cov(P,Q)[1,1]
Out[29]:
11.428571428571427
In [30]:
np.cov(P,Q)[0,0]
Out[30]:
4.571428571428571
In [31]:
np.corrcoef(P,Q)
```