```
In [2]:
          # calculate a 5-number summary
         from numpy import percentile
         from numpy.random import rand
          # generate data sample
         data = rand(1000)
          # calculate quartiles
         quartiles = percentile(data, [25, 50, 75])
          # calculate min/max
         data min, data max = data.min(), data.max()
          # print 5-number summary
         print('Min: %3f' % data min)
         print('Q1: %3f' % quartiles[0])
         print('Median: %3f' % quartiles[1])
         print('Q3: %3f' % quartiles[2])
         print('Max: %3f' % data max)
        Min: 0.001134
         Q1: 0.243092
        Median: 0.504717
         Q3: 0.750697
        Max: 0.999820
In [3]:
         #calculate 5 number summary
         data=[13,43,54,34,40,56,34,61,34,23]
In [5]:
         min(data)
Out[5]:
In [6]:
         max(data)
Out[6]:
In [7]:
         range=max(data)-min(data)
         range
Out[7]:
In [12]:
          #finding 25th percentile i.e..,Q1
         data1=sorted(data)
         index1=len(data1)*.25
         print(index1)
         2.5
In [11]:
         #finding 75th percentile i.e..,Q3
         data1=sorted(data)
         index2=len(data1)*.75
         print(index2)
         7.5
In [14]:
          #median
         IQR=(index2-index1)
         IQR
```

Out[14]:	5.0
In []:	