In [1]:
```
import numpy as np
from pandas import Series,DataFrame
import pandas as pd
```

In [4]:
```
#Sorting by index
ser1 = Series(range(3),index=['C','A','B'])

#show
ser1
```

Out[4]:
```
C    0
A    1
B    2
dtype: int64
```

In [5]:
```
#Now sort_index
ser1.sort_index()
```

Out[5]:
```
A    1
B    2
C    0
dtype: int64
```

In [6]:
```
#Can sort a Series by its values
ser1.order()
```

Out[6]:
```
C    0
A    1
B    2
dtype: int64
```

In [10]:
```
#Lets see how ranking works

from numpy.random import randn
ser2 = Series(randn(10))

#Show
ser2
```

Out[10]:
```
0    0.524553
1   -1.987343
2   -0.883902
3   -0.875829
4    0.216089
5    0.744837
6   -0.761465
7    0.792798
8   -0.144650
9    0.100972
dtype: float64
```

In [11]:
```
#This will show you the rank used if you sort the series
ser2.rank()
```

Out[11]:
```
0     8
1     1
2     2
3     3
4     7
5     9
6     4
7    10
8     5
9     6
dtype: float64
```

In [13]:
```
#Lets sort it now
ser2.sort()

#Show
ser2
```

Out[13]:
```
1   -1.987343
2   -0.883902
3   -0.875829
6   -0.761465
8   -0.144650
9    0.100972
4    0.216089
0    0.524553
5    0.744837
7    0.792798
dtype: float64
```

In [15]:
```
#After sorting let's check the rank and see iof it makes sense
ser2.rank()
```

Out[15]:
```
1     1
2     2
3     3
6     4
8     5
9     6
4     7
0     8
5     9
7    10
dtype: float64
```

In [16]:
```
#On the left column we see th original index value and on the right we see it's r
```

In [ ]:
```
#Next we'll learn about using descriptive statistics on dataframes!
```