Import Some Libraries

In [16]:
```
import numpy as np
from numpy.random import randn

import pandas as pd
from pandas import Series, DataFrame

import matplotlib.pyplot as plt
from pylab import rcParams

import seaborn as sb
```

In [4]:
```
%matplotlib inline
rcParams['figure.figsize'] = 5,4
sb.set_style('whitegrid')
```

Write down the address of CSV object from local computer

Don't forget to write "encoding = 'unicode_escape'" to make UTF-8 encoding

In [21]:
```
address = 'C:/Users/muham/Superstore-Sales.csv'
df = pd.read_csv(address, index_col='Order Date', parse_dates = True, encoding
= 'unicode_escape')
```

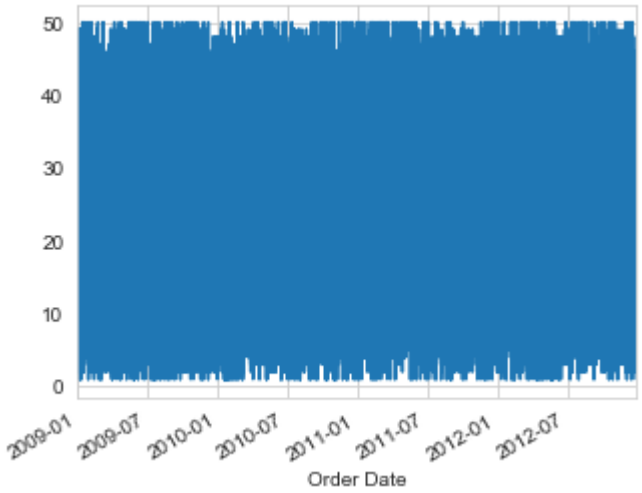
In [22]:
```
df.head()
```

Out[22]:

Order Date	Row ID	Order ID	Order Priority	Order Quantity	Sales	Discount	Ship Mode	Profit	Unit Price	Shipping Cos
2010-10-13	1	3	Low	6	261.5400	0.04	Regular Air	-213.25	38.94	35.0(
2012-10-01	49	293	High	49	10123.0200	0.07	Delivery Truck	457.81	208.16	68.0
2012-10-01	50	293	High	27	244.5700	0.01	Regular Air	46.71	8.69	2.9
2011-07-10	80	483	High	30	4965.7595	0.08	Regular Air	1198.97	195.99	3.9
2010-08-28	85	515	Not Specified	19	394.2700	0.08	Regular Air	30.94	21.78	5.9

In [23]:
```
df['Order Quantity'].plot()
```

Out[23]:
```
<matplotlib.axes._subplots.AxesSubplot at 0xbc3a750>
```



This one below is example of Untrended Seasonal Time Series

In [25]:
```
df2 = df.sample(n = 100, random_state = 25, axis = 0)
plt.xlabel('Order Date')
plt.ylabel('Order Quantity')
plt.title('Superstore Sales')
df2['Order Quantity'].plot()
```

Out[25]: <matplotlib.axes._subplots.AxesSubplot at 0x5efaa10>