In [1]:
```
import pandas as pd

df = pd.read_csv('Activity5.csv').set_index("Day")
```

QUESTION A: Calculate a 95% confidence interval for the mean difference at restuarant sales.

In [2]:
```
import scipy.stats as stats
result = stats.ttest_ind(df['Restaurant1'],df['Restaurant2'], equal_var=Fals
ci = result.confidence_interval()
interval = [ci.low, ci.high]
interval
```

Out[2]:
```
[-3137.5565986011516, 641.1565986011517]
```

QUESTION B: The owner wants to know if thre is evidence of a difference between the average daily food sales of the two restaurants. Testing using alpha = 0.01

In [3]:
```
if result.pvalue < 0.01:
    print("At alpha = 0.01 there is sufficient evidence to reject the the cl
else:
    print("At alpha = 0.01 there is not sufficient evidence to reject the th
```

```
At alpha = 0.01 there is not sufficient evidence to reject the the claim tha
t there is no difference between average daily food sales at the two restuar
ants.
```