## In [1]:

```
import pandas as pd
import numpy as np
from scipy import stats
executed in 1.56s, finished 19:47:20 2021-11-26
```

# In [6]:

```
df = pd.read_csv('BuyerRatio.csv')
executed in 20ms, finished 19:51:10 2021-11-26
```

#### In [3]:

df

executed in 63ms, finished 19:48:33 2021-11-26

#### Out[3]:

	Observed Values	East	West	North	South
0	Males	50	142	131	70
1	Females	435	1523	1356	750

## In [7]:

```
stats.chi2_contingency([df["East"], df["West"], df["North"], df["South"]])
executed in 24ms, finished 19:54:28 2021-11-26
```

## Out[7]: