In [1]:
```
from apyori import apriori

transactions = [
    ['Bread', 'butter', 'milk', 'soda'],
    ['Coke', 'egg', 'milk'],
    ['Bread', 'butter', 'egg'],
    ['Break', 'coke', 'jam'],
    ['Bread', 'butter'],
    ['Potato chips', 'soda'],
    ['Coke', 'fruit', 'juice'],
    ['Bread', 'coke', 'milk'],
    ['Coke', 'soda', 'jam', 'milk'],
    ['Bread', 'butter', 'egg', 'milk','soda'],
    ['Bread', 'milk'],
    ['Bread', 'jam']
]
results = list(apriori(transactions))
```

In [2]:
```
association_rules = apriori(transactions, min_support=0.093, min_confidence=1.0, min_lift=2, min_length=2)
association_results = list(association_rules)
```

In [3]:
```
print("Association Results : {}".format(len(association_results)))

print("First association results : \n{}".format(association_results[0]))
```

```
Association Results : 5
First association results :
RelationRecord(items=frozenset({'Bread', 'butter', 'egg'}), support=0.16666666666666666, ordered_statistics=[OrderedStatistic(i
tems_base=frozenset({'Bread', 'egg'}), items_add=frozenset({'butter'}), confidence=1.0, lift=3.0)])
```

In [4]:
```
for item in association_results:
    # first index of the inner list
    # Contains base item and add item
    pair = item[0]
    items = [x for x in pair]
    print("Rule: " + items[0] + " -> " + items[1])

    #second index of the inner list
    print("Support: " + str(item[1]))

    #third index of the list located at 0th
    #of the third index of the inner list
    print("Confidence: " + str(item[2][0][2]))
    print("Lift: " + str(item[2][0][3]))
    print("====================================")
```

```
Rule: Bread -> butter
Support: 0.16666666666666666
Confidence: 1.0
Lift: 3.0
====================================
Rule: Bread -> butter
Support: 0.16666666666666666
Confidence: 1.0
Lift: 3.0
====================================
Rule: Bread -> milk
Support: 0.16666666666666666
Confidence: 1.0
Lift: 2.0
====================================
Rule: butter -> milk
Support: 0.16666666666666666
Confidence: 1.0
Lift: 3.0
====================================
Rule: Bread -> butter
Support: 0.16666666666666666
Confidence: 1.0
Lift: 3.0
====================================
```