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In [1]: # Chi-Squared Test
        from scipy.stats import chi2_contingency
        table = [[10, 20, 30],[6, 9, 17]]

        #The expected frequencies are computed based on the marginal sums
        #under the assumption of independence
```

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In [2]: stat, p, dof, expected = chi2_contingency(table)
```

```
In [3]: print('P value:', p)
        print('dof value:', dof)
        if p > 0.05:
            print('independent')
        else:
            print('dependent')

P value: 0.873028283380073
dof value: 2
independent
```

```
In [4]: table = [[10, 20, 30, 40],[30, 30, 30, 30]]
```

```
In [5]: stat, p, dof, expected = chi2_contingency(table)
```

```
In [6]: print('P value:', p)
        print('dof value:', dof)
        if p > 0.05:
            print('independent')
        else:
            print('dependent')

P value: 0.008456754021849054
dof value: 3
dependent
```

```
In [ ]:
```