In [5]:

```python
# 연습문제 9 / 예제(7.19), p240
from scipy.stats import chi2

weight = [46.4, 46.1, 45.8, 47.0, 46.1, 45.9, 45.8, 46.9, 45.2, 46.0]
n = len(weight)
x_bar = sum(weight) / n
s2 = sum((x - x_bar)**2 for x in weight) / (n - 1)
lower = (n - 1) * s2 / chi2.ppf(0.975, n - 1)
upper = (n - 1) * s2 / chi2.ppf(0.025, n - 1)

print(f'95% 신뢰구간 : ({round((lower), 3)} < σ^2 < {round((upper), 3)})')
# 시그마 변수 도입, 단점 | 깨질 수 있음
```

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