In [5]:

*#* 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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95% 신뢰구간 : (0.135 < σ^2 < 0.954)