

In [4]:

연습문제 9 p247, node (28)

import numpy **as** np

from scipy **import** stats

weight = [46.4, 46.1, 45.8, 47.0, 46.1, 45.9, 45.8, 46.9, 45.2, 46.0]

x_mean = np.mean(weight)

s = np.std(weight, ddof=1)

chi2_lower = stats.chi2.ppf((1 - 0.95) / 2, len(weight) - 1)

chi2_upper = stats.chi2.ppf((1 + 0.95) / 2, len(weight) - 1)

ci_lower = (len(weight) - 1) * s ** 2 / chi2_upper

ci_upper = (len(weight) - 1) * s ** 2 / chi2_lower

print(f"무게 분산에 대한 95% 신뢰구간 : ({round((ci_lower), 3)} < sigma^2 < {round((ci_upper), 3)})")

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