In [4]:

*#* 연습문제 *8 p246, node (25)* **import** numpy **as** np **from** scipy **import** stats

life **=** [1.9, 2.4, 3.0, 3.5, 4.2]

x\_mean **=** np**.**mean(life) s **=** np**.**std(life, ddof**=**1)

chi2\_lower **=** stats**.**chi2**.**ppf((1 **-** 0.95) **/** 2, len(life) **-** 1)

chi2\_upper **=** stats**.**chi2**.**ppf((1 **+** 0.95) **/** 2, len(life) **-** 1)

ci\_lower **=** (len(life) **-** 1) **\*** s **\*\*** 2 **/** chi2\_upper ci\_upper **=** (len(life) **-** 1) **\*** s **\*\*** 2 **/** chi2\_lower

print(f"sigma^2에 대한 95% 신뢰구간 : ({round((ci\_lower), 2)} < sigma^2 < {round((ci\_upper), 2)})")

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sigma^2에 대한 95% 신뢰구간 : (0.29 < sigma^2 < 6.73)