$$AIC = -2\log L + 2p \quad \rightarrow p = \text{no. of parameters}$$

$$AIC = -2\log L_R + 2p$$

$$= 437.5 + 2\times 2$$

$$AICC = -2\log L_R + 2p \times \left(\frac{N}{N-p}\right) \quad \begin{matrix} 4\times 27 \\ = 108 \end{matrix}$$

$N \rightarrow$ no of obs

AICC: corrected

(X) $N = 30,\ p = 20,\ \frac{N}{N-p} = \frac{30}{30-20} = 3$ (penalty 較高)

$N = 300,\ p = 20,\ \frac{N}{N-p} = \frac{300}{300-20} = 1.07$

$BIC = -2\log L_R + p \times \log(n)$

↓ ↓ n: no of clusters

$= 2 \times \log(27)$ 27

懲罰大樣本嗎？

No, $\log(n)$ 在同一筆資料下是固定的