例 9.10

$H_0: u_1 = u_2 = u_3$ ，$n = 5+6+6 = 17$

$SST = \sum_{i=1}^{k}\sum_{j=1}^{n_i} y_{ij}^2 - \frac{T^2}{n} = 39.159 - 33.264 = 5.895$

$SSTR = \sum_{i=1}^{k} \left(\frac{T_i^2}{n_i}\right) - \frac{T^2}{n} = 37.873 - 33.264 = 4.609$

$SSE = SST - SSTR = 1.286$

變異來源	平方和	自由度	均方	F檢定值
減肥藥	SSTR = 4.609	3 − 1 = 2	MSTR = 2.305	$\frac{2.305}{0.092} = 25.05$
隨機誤差	SSE = 1.286	17 − 3 = 14	MSE = 0.092	
總和	SST = 5.895	17 − 1 = 16		

$F = 25.05 > F_{0.05}(2, 14) = 3.74$　有差異

例 9.12

$m = \binom{3}{2} = 3$ ，$F_{0.05}(3-1, 17-3) = 3.74$

$S = \sqrt{MSE} = \sqrt{0.092} = 0.303$ ，$\sqrt{(k-1)F} = \sqrt{(3-1)3.74} = 2.73$

$u_2 - u_1$：$(1.53 - 0.63) \pm 2.73 \times 0.303 \times \sqrt{\frac{1}{6}+\frac{1}{5}} = (0.399, 1.401)$，不包含 0

$u_3 - u_2$：$(1.91 - 1.53) \pm 2.73 \times 0.303 \times \sqrt{\frac{1}{6}+\frac{1}{6}} = (-0.098, 0.858)$，包含 0

$u_3 - u_1$：$(1.91 - 0.63) \pm 2.73 \times 0.303 \times \sqrt{\frac{1}{6}+\frac{1}{5}} = (0.779, 1.781)$，不包含 0

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