Restriction 1: $d_1 + d_2 + d_3 = 0$

\[ \hat{\mu} + \hat{d}_2 = \bar{x}_3 \]

\[ \hat{\mu} + \hat{d}_1 = \bar{x}_1 \]

\[ \hat{\mu} + \hat{d}_2 = \bar{x}_3 \]

\[ \gamma_{11} = \mu + \alpha_1 + e_{11} \]

\[ \gamma_{43} = \mu + \alpha_3 + e_{43} \]
Restriction 2: \( \mu = 0 \)

\[ \hat{\mu} + \hat{\alpha}_2 = \bar{x}_2 \]

\[ \hat{\mu} + \hat{\alpha}_3 = \bar{x}_3 \]

\[ y_{i1} = \mu + e_{i1} \]

\[ y_{i4} = \mu + \alpha_3 + e_{i3} \]