73. Suppose that the random variables Y_{ij} are observed according to the model

$$Y_i j = \mu + \tau_i + \epsilon_{ij}, \quad i = 1, ..., k, \quad j = 1, ..., n_i.$$

where $\epsilon_{ij} \sim \text{normal}(0, \sigma^2)$ for all i, j. Show that without the constraint $\sum_{i=1}^{k} \tau_i = 0$ the model is not identifiable.