Genetic Evaluation - Exercise 2

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Problem 1: Model Selection

We assume that we have a dataset for the response variable carcass weight (CW) and for some predictor variables

- sex (sex)
- slaughterhouse (slh)
- herd (hrd)
- age at slaughter (age)
- day of month when animal was slaughtered (day) and
- humidity (hum)

Use a fixed linear effects model and determine which of the predictor variables are important for the response.

The data is available from https://charlotte-ngs.github.io/gelasmss2021/data/gel_model_sel_ex02.csv.

Hint

- Use the function lm in R to fit the fixed linear effects model
- Use either Mallow C_p statistic or the adjusted coefficient of determination R^2_{adj} or AIC as model selection criteria
- Use the backward model selection approach