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Homework 8

1. For this question, I don’t think a linear regression model is appropriate. I would simply run a chi-squared test for a difference in means to see if there are statistically different values for blood pressure between placebo and treatment groups.
2. Unlike for the previous question, I would not do a test for difference in means between the three treatment groups, since there are many different doses. However, I will be making some regressions to observe if there are correlations between treatment amounts and finishing the maze quickly. This will be useful because I will be able to add order of maze runs as a factor, and see how much it affects the model.
3. I would do a multivariable regression with score as the outcome variable, and family/subject ID as the predictors. I will also add interaction (family\*subjectID).