Day 3 Optional Homework

1. Test if Relationship Length moderates the actor and partner effects of attachment anxiety on Satisfaction. Do this first treating dyad members as indistinguishable and then redo with dyad members as distinguishable by Gender. Make sure to center relationship length and attachment anxiety first. Interpret all effects, even if they are not statistically significant. Estimate the simple actor and simple partner effects for at 6 months and 3 years relationship length.

2. Using the output from the indistinguishable dyads, graph the interaction between anxiety and relationship length predicting relationship satisfaction for both actor and partner. Do this by creating two graphs in R: *1)* the effect of actor anxiety on relationship satisfaction at 6 months and 3 years relationship length, and *2)* the effect of partner anxiety on relationship satisfaction at 6 months and 3 years relationship length.

3. Treating dyads as indistinguishable, test if the actor and partner effects of abuse on relationship satisfaction are mediated by attachment avoidance. That is, are the effects of Abuse_A and Abuse_P on Sat_A mediated by Avoid_A and Avoid_P? Report the indirect effects and their confidence intervals. What percentage of the total actor and partner effects is mediated by attachment avoidance?