We should work individually.

James and Myrna can help troubleshooting errors in code.

If we post something on Canvas/Piazza, it should be generic, not something particular.

Tips for the midterm

1. Start with a cleared environment
2. Make a diagram of the experiments
3. Use the diagram and structure function in R to fill the design table.
4. Make sure design table and structure of the data match. Our results might vary if something is an integer or a categorical variable.
5. Follow the different rules and use the design table when creating the model. Exclude the things that have the same #levels as the response. If we don’t declare the EU’s 🡪 lm; if we include our EU’s 🡪 declare them as random using the sytax (1|), use lmer.
6. General flow to get deltas for the treatments
   1. Make lm/lmer model
   2. Create emmeans object with the model from a)
   3. Create a contrast using the emmeans object from b)
7. Clear your environment and re-run the code if we get an error, in case we created a variable in a different file.

Things to watch out for:

* Change variable names to our experiment
* Design table: don’t take averages to make an lm model unless told to do so; make sure the str table matches our design table
* Model:
* Analysis:
  + Read the question carefully, learn the differences between the different methods to know what they’re answering.
  + Make sure we use the emmeans object in the contrast function.
  + When using lmer models, use the extra arguments like lmer.df=k
  + Be aware of the differences between Dunnett and Tukey?
  + Be sure to report units for the values