A good project should contain at least the following components:

1. Draw the spaghetti plots for the longitudinal responses to visualize the pattern of the data.

2. Consider at least three different models and state the model assumptions.

3. Formulate your research questions in terms of estimation and hypothesis testing.

4. Compare different models and choose the "optimal model" for the data.

5. Conduct statistical tests for your hypotheses: **Both** the likelihood ratio test and Wald tests should be included.

6. Draw conclusions based on your data analysis results and try to explain the covariates effects on responses.

7. Include the SAS codes and their associated outputs.

8. The project should like a self-consistent short paper with various sections, including an introduction for the questions of your interest, the models considered and the methods used to fit the data, the model comparison and data analysis results, the conclusion/discussion section to summarize the project, and the appendix for the SAS codes and the outputs.

**Project due date: April 27th (Tuesday)**.