**ANALYSIS 1 BREAKDOWN**

1. Only sales houses in Names, Edwards BrkSide **(3 Neighborhoods total)**
2. Estimate of how the **SalePrice** of the house is related to the **GrLivArea (2 variables total) = SPGLA**
3. SalesPrice (and its relationship to square footage)/Estimate of question 1 (**SPGLA**) depends on which neighborhood the house is located in.
4. Build and fit a model that will answer this question
5. Keep in mind that realtors prefer to talk about living area in increments of 100 sq. ft.
6. Provide your client with the estimate (or estimates if it varies by neighborhood)

as well as confidence intervals for any estimate(s) you provide.

1. Provide evidence that the model assumptions are met and that any suspicious observations (outliers/influential observations) have been identified and addressed.
2. Provide your client with a well written conclusion that quantifies the **relationship between living area and sale price with respect to these three neighborhoods**.

**ANALYSIS 2 BREAKDOWN**

1. Build the **most** **predictive** model for **sales** **prices** of **homes** in **all** of Ames Iowa. (all neighborhoods)
2. Produce 4 models:
   1. Forward selection
   2. Backwards elimination
   3. Stepwise selection
   4. Custom built *(only techniques from 6371)* but can add or subtract variables.
3. Generate the following for each model:
   1. Adjusted R2
   2. CV Press
   3. Kaggle Score
4. Description of which model we believe is best for predicting future sale prices of homes in Ames, Iowa.
5. Provide a table for analysis 2.3, e.g.:

