You have attained new status at Umbridge and Associates; the company no longer wants you to focus on single developments, such as the Bridges of River Mist. Instead they would like you to develop predictive models that can be used to assess potential investments. As a development company, UA wants to purchase and design townhouse projects. Given your experience with the Anytown USA townhome development, your dataset is a logical starting point for developing a model of factors that can be used to predict price.

1) Using your dataset, use correlation to independently assess which variables, living area, time on market, lot size, and/or age of home, relate best to sale price. Is multicollinearity a potential problem?

2) Build a multiple regression model using those variables that correlate significantly with price.
   a. If you could only collect data using a single variable to predict price, which one would you use?
      i. Do a simple linear regression using that variable

3) Provide a report that explains the relationships you explored, how you developed your model, and stating important results from the Anytown case study that you used.
   a. Introduction: make sure you introduce the purpose of the project
   b. Methods: make sure you introduce correlation and regression as the appropriate tools with which to discover relationships and with which to develop a predictive model applying the central limit theorem to assume normality.
   c. Results:
      i. assess the correlations and describe relationships that exist in terms of strength and significance (use the model of writing results from Cronk pgs 42-43
      ii. Assess the regression models in terms of their predictive capabilities (see Cronk page 48 – 52).
   d. Conclusions: summarize and state the importance of your findings