**Group 1: Mammals (load “**ggplot2**”, and use built-in dataset “**msleep**”)**

1. How many different species are included in this data set? How many orders do they represent? Provide numerical results.
2. Is there a correlation between total sleep and REM sleep? Provide statistical results and a visual.
3. Is there a difference in time spend awake based on eating habit? Provide statistical results and a visual.
4. Can body weight explain brain weight of these species? Is this relationship improved when removing outliers? Provide statistical results and visuals.

**Group 2: Diamonds (load “**ggplot2**”, and use built-in dataset “**diamonds**”)**

1. What is the average length and width of each cut of diamond? Provide numerical results and a visual(s).
2. Is the carat of these diamonds significantly different than 1 (average for center stone)? Provide statistical results.
3. Is there a difference in price based on color? If so, which color(s) have the highest prices? Provide statistical results and a visual.
4. Can price be explained by depth? Provide statistical results and a visual.

**Group 3: Housing (load “**ggplot2**”, and use built-in dataset “**txhousing**”)**

1. What is the total number of housing sales for each city from 2000-2015 combined? Provide numerical results and a visual.
2. Is median sale price across all cities significantly different across months? Provide statistical results and a visual.
3. Is there a change in average yearly inventory for Dallas or for Houston since 2000? Provide statistical results and a visual(s).
4. Does total number of listings explain total number of sales by city, summed across all years? Which cities are the two highest? Provide statistical results and a visual.