92.651 homework 1

February 1, 2016

1. In R, run **attach(faithful)**, how would you get the column names for the faithful dataset?

2. How would you create a histogram of the eruptions dataaset? This dataset comes with the previous attachment.

3. How would you now create a histogram for the same dataset only with three bars?

4. We are going to use the PlantGrowth dataset. Run the following:

```
plant.df = PlantGrowth
plant.df$group = factor(plant.df$group,
  labels = c("Control", "Treatment 1", "Treatment 2"))
```

Describe what these two commands have done.

5. Create a linear model using the **lm** method between the two column names of the plant.df data frame.

6. Is the linear model a good fit for this data? Show why you think so.