ANLY-511 HW 7

- (2 points) Consider the Chlorine data column in the Bangladesh data frame.
- a) Explore the distribution graphically (boxplot, histogram) and describe it briefly.
- b) Use the bootstrap to make a 90% confidence interval for the mean.
- 1. (2 points) Consider the Titanic data. Are the median ages of the victims and survivors different? Examine this with a bootstrap approach. Explain your approach and state your conclusion.
- 2. (2 points) Problem 5.10 #12 in Chihara/Hesterberg.
- 3. (2 points) Problem 5.10 #13 in Chihara/Hesterberg.
- 4. (2 points) Problem 5.10 #15 in Chihara/Hesterberg.
- 5. (5 points) Problem 5.10 #14 in Chihara/Hesterberg.
- 6. (5 points) Problem 5.10 #16 in Chihara/Hesterberg.
- 7. (5 points) Consider the Arsenic data column in the Bangladesh data frame.
 - a) Find the median and the 90th percentile of the sample.
 - b) Estimate the bias of the median, using the bootstrap.
 - c) Estimate the bias of the 90th percentile, using the bootstrap.