Stat 311 HW – LECTURE NOTES Problem Sets

Each HW assignment consists of at least one set of required problems from the textbook, AND at least one set of problems from the Lecture Notes (numbered sets I, II, … are shown below in BLUE). Solutions will be posted here.

0. **READ:** Getting Started with R

I. **Introduction**
   1.5 - **Problems** / 4, 7

II. **Exploratory Data Analysis**
   2.5 - **Problems** / 2, 3, 4, 7, 9

III. **Probability Theory**
   3.5 - **Problems** / 1, 2, 7, 8, 9, 15, 19, 30 – **DO ANY FIVE PROBLEMS**

IVA. **Discrete Models**
   4.4 - **Problems** / 1, 2, 19, 25

IVb. **Continuous Models**
   4.4 - **Problems** / 13, 15, 16, 17, 18, 29, 30, 31 – **DO ANY FIVE PROBLEMS**
   6.4 - **Problems** / 24, 25

Va. **Sampling Distributions, Central Limit Theorem**
   5.3 – **Problems** / 1, 3, 4 – **DO ANY TWO PROBLEMS**

Vb. **Covariance and Correlation**
   7.4 – **Problems** / 5

VI. **Statistical Inference: One Mean (Large Samples)**
   6.4 - **Problems** / 2(b) – skip the last column