

STA302 Lec5101, Methods of Data Analysis 1

Module 5: Problem set

October 1, 2024

1 Basic learning objective practice

Problem.

Sheather: Chapter 2: Exercise 1. Skip part (b).

You can load the data with R:

```
playbill = read.csv("https://gattonweb.uky.edu/sheather/book/docs/datasets/playbill.csv",  
header = T)
```

Problem.

Sheather: Chapter 2: Exercise 2

You can load the data with R:

```
indicators = read.table("https://gattonweb.uky.edu/sheather/book/docs/datasets/indicators.txt",  
header = T)
```

Problem.

Sheather: Chapter 2: Exercise 3. Skip (b).

You can load the data with R:

```
invoices = read.table("https://gatonweb.uky.edu/sheather/book/docs/datasets/invoices.txt",
header = T)
```

Problem.

Sheather: Chapter 2: Exercise 4 (a), (b).

Problem.

Weisberg: Chapter 2, Problem 2.1.2, 2.1.3

You can use "abline" to draw a line over a scatterplot for part 2.1.2. Skip the hypothesis test part of 2.1.3. You can load the data with R:

```
library(alr4)
data(Httw)
```

Problem.

Rencher: Chapter 6, Problems 2, 3, 14 (a), (c)

```
data(faithful)
```

2 Advanced learning objective practice from textbooks

Problem.

Sheather: Chapter 3, Exercise 3.

You can load the data with R:

```
adrevenue = read.csv("https://gatonweb.uky.edu/sheather/book/docs/datasets/AdRevenue.csv",
header = T)
```