

# Homework Example

STA 106B | Zhikuan Quan | April 2024

## Problem 1

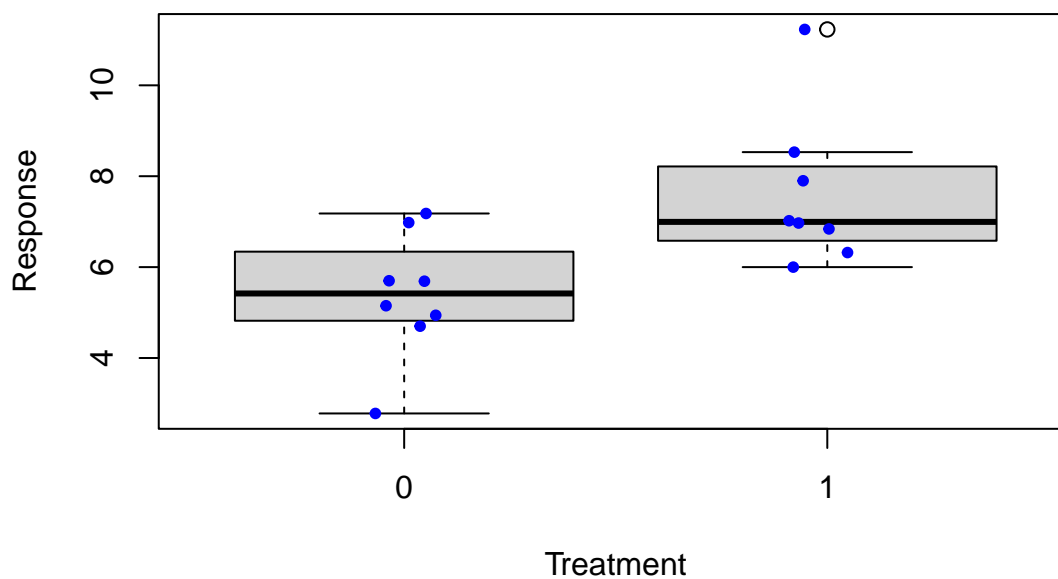
### a) Show the data

I use the knitr to generate the table.

Table 1: Data 1

Treatment	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Response	6.98	5.15	2.78	4.94	7.18	5.70	4.70	5.69	11.23	7.90	6.00	6.97	6.32	7.02	6.84	8.53

### b) Plot the boxplot of the data



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## Appendix: R Script

```
# Packages required for this homework
library(tidyverse)
library(knitr)
# load the data
# read.table or read.csv or type in the data by yourself
data1 = data.frame(Treatment = format(c(rep(0,8), rep(1,8))),
                  Response = c(6.98,5.15,2.78,4.94,7.18,5.7,4.7,5.69,
                              11.23,7.9,6,6.97,6.32,7.02,6.84,8.53))

# Problem 1
## a)
t(data1) %>%
  kable(caption = "Data 1",
        align = "r")

#
## b)
boxplot(Response~Treatment,data=data1)
stripchart(Response~Treatment, vertical = TRUE, data = data1,
           method = "jitter", add = TRUE, pch = 20, col = 'blue')
```