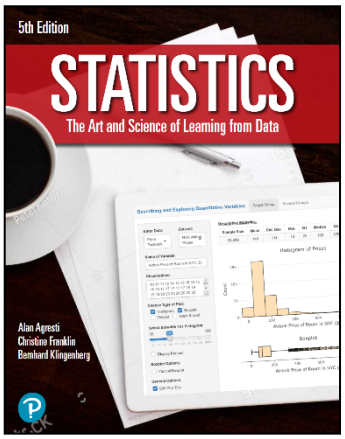

R Code for Examples in the book
"Statistics: The Art and Science of Learning from Data"
by Agresti, Franklin and Klingenberg, 5th edition

Chapter 10

Example 9: Cell Phone Use – Significance Test Comparing Two Means

Reading in the data

```
cellPhoneReactions <-
read.csv(file='https://raw.githubusercontent.com/artofstat/data/master/Chapter10/cell_phone_reaction_times_long.csv')
```

To subset data to make the two groups

```
cell <- subset(cellPhoneReactions, Group == 'Cell')
control <- subset(cellPhoneReactions, Group == 'Control')
```

To make a hypothesis test comparing the two means

```
t.test(cell$ReactionTime, control$ReactionTime)

##
##  Welch Two Sample t-test
##
## data:  cell$ReactionTime and control$ReactionTime
## t = 2.6307, df = 56.696, p-value = 0.01095
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  12.31658 90.87092
## sample estimates:
## mean of x mean of y
##  585.1875  533.5938
```