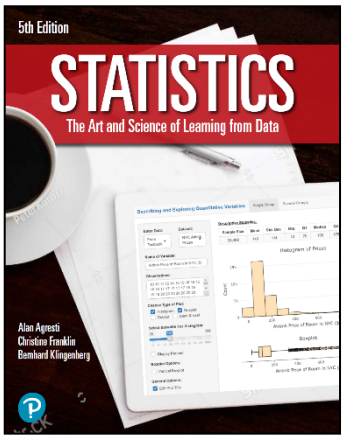

R Code for Examples in the book
"Statistics: The Art and Science of Learning from Data"
by Agresti, Franklin and Klingenberg, 5th edition

Chapter 8

Example 11: Flight Departure Delays – Percentile Confidence Interval

Reading in the data

```
delays <-
read.csv(file='https://raw.githubusercontent.com/artofstat/data/master/Chapter7/atl_departure_delay.csv')
```

To make 10,000 bootstrap samples and compute each sample mean

```
bootmean <- c()
for (i in 1:10000) {
  bootmean[i] <- mean(sample(delays$minutes, replace = TRUE))
}
```

To obtain the 2.5th and 97.5th percentiles of the bootstrapped means

```
quantile(bootmean, c(0.025, 0.975))
```

```
##     2.5%    97.5%
##  62.8400 107.6547
```