Stat 123 Homework 5

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```
#Make working directory global
knitr::opts_knit$set(root.dir =
"C:\\Users\\jon\\Documents\\School\\R\\HW\\HW5")
```

Cleaning the data in the unclean report.

```
unclean.report <- read.csv("report.csv", sep=",", header=FALSE,
                  stringsAsFactors=FALSE)

clean.report <- unclean.report[5:96, 1:2]
names(clean.report) <- c("date","interest")
clean.report$date <- as.Date(as.character(clean.report$date), format="%Y-%m-
%d")
clean.report$interest <- as.integer(as.character(clean.report$interest))



clean.report$weekday <- weekdays(as.Date(clean.report$date))
head(clean.report)
```

```
##          date interest   weekday
## 5  2014-06-09       28    Monday
## 6  2014-06-10       20   Tuesday
## 7  2014-06-11       23 Wednesday
## 8  2014-06-12       21  Thursday
## 9  2014-06-13       19    Friday
## 10 2014-06-14       27  Saturday
```

Comparing to HW2:

```
mondays <- clean.report[clean.report$weekday=="Monday",]
mean.monday <- mean(mondays$interest, na.rm=TRUE)
mean.monday
```

```
## [1] 26.76923
```

```
weekends <- clean.report[clean.report$weekday %in% c("Sunday","Saturday"),]
mean.weekends <- mean(weekends$interest, na.rm=TRUE)
mean.weekends
```

```
## [1] 54.28
```

```
weekdays <- subset(clean.report, !(clean.report$weekday %in%
c("Sunday","Saturday")))
```

```r
mean.weekdays <- mean(weekdays$interest, na.rm=TRUE)
mean.weekdays
```

```
## [1] 21.13846
```

```r
median.interest <- median(clean.report$interest, na.rm=TRUE)
median.interest
```

```
## [1] 22
```

```r
min.interest <- min(clean.report$interest, na.rm=TRUE)
min.interest
```

```
## [1] 14
```

```r
max.interest <- max(clean.report$interest, na.rm=TRUE)
max.interest
```

```
## [1] 100
```