STAT 312/312R - R lab 1

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Problem 1:

Load the airpoll.txt data set into R using the read.table() function. Note that column names are included in the file so you have to use the header=T option. Use the head() function to print a few rows of the data. (4 points)

```
airpoll <- read.table("airpoll.txt", header = TRUE)
print(head(airpoll))
```

```
##   Rainfall Education Popden Nonwhite NOX SO2 Mortality
## 1       36      11.4   3243      8.8  15  59     921.9
## 2       35      11.0   4281      3.5  10  39     997.9
## 3       44       9.8   4260      0.8   6  33     962.4
## 4       47      11.1   3125     27.1   8  24     982.3
## 5       43       9.6   6441     24.4  38 206    1071.0
## 6       53      10.2   3325     38.5  32  72    1030.0
```

Problem 2:

Use R commands to answer the following questions about the dataset:

a)

What class is the data object? (2 points)

```
class(airpoll)
```

```
## [1] "data.frame"
```

Ans: data.frame

b)

How many observations are there in the dataset? (2 points)

```
dim(airpoll)
```

```
## [1] 60  7
```

Ans: 60 x 7

c)

How many variables are there in the dataset? (2 points)

```
names(airpoll)
```

```
## [1] "Rainfall"  "Education" "Popden"    "Nonwhite"  "NOX"       "SO2"
## [7] "Mortality"
```

Ans: 7