LAB 1

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Source() function

Source allows R to accept its input from the named file or URL or connection or expressions directly.

```{r}
source("http://www.openintro.org/stat/data/arbuthnot.R")
View(arbuthnot)
```

Data Exploration

dim(DF): You can see the dimensions of DF

nrow(DF): will return the number of rows of DF (number of observations)

ncol(DF): will return the number of columns of DF (number of variables)

names(DF): will return the names of the variables in DF

Getting individual columns of a data frame

DF <-data frame
x<- name of variable in DF

DF$x <- isolated column x in DF

max(DF$x) <- returns the max value of column of x
min (DF$x) <- returns the min value of column of x

Plot function

Plot(x= DF$x, y=DF$y) <- scatter plot

Plot(x= DF$x, y=DF$y, type = "I") <- line plot

Creating new variable (total)

arbuthnot$total <- arbuthnot$boys + arbuthnot$girls

total is now a new column in the data frame

arbuthnot

Filter

DF$x[DF$y == 1664] <- gives you the values of x when y is equal to 1664