Session-4-Assignment-3

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# Q1.  
# a.Get states names with 'w'.  
data("USArrests")  
head(USArrests)

## Murder Assault UrbanPop Rape  
## Alabama 13.2 236 58 21.2  
## Alaska 10.0 263 48 44.5  
## Arizona 8.1 294 80 31.0  
## Arkansas 8.8 190 50 19.5  
## California 9.0 276 91 40.6  
## Colorado 7.9 204 78 38.7

USArrests$states<- row.names(USArrests)  
USArrests$states[grep("w",USArrests$states)]

## [1] "Delaware" "Hawaii" "Iowa" "New Hampshire"  
## [5] "New Jersey" "New Mexico" "New York"

# b.Get states names with 'W'.  
USArrests$states[grep("W",USArrests$states)]

## [1] "Washington" "West Virginia" "Wisconsin" "Wyoming"

# Q2. Prepare a Histogram of the number of characters in each US state.  
library(stringi)  
library(ggplot2)  
USArrests$states<- row.names(USArrests)  
USArrests$length<- stri\_length(USArrests$states)  
ggplot(data=USArrests, aes(length)) +   
 geom\_histogram(col="red", aes(fill=states), bins = 35 , size=.5) +   
 labs(title="Histogram of the number of characters in each US state")

