Assignment 4.3

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```r
#Assignment 4.3

#1. states=rownames(USArrests)
     # Get States names with 'w'
     # Get States names with 'W'

states=rownames(USArrests)
states
```

```
##  [1] "Alabama"        "Alaska"        "Arizona"        "Arkansas"
##  [5] "California"     "Colorado"      "Connecticut"    "Delaware"
##  [9] "Florida"        "Georgia"       "Hawaii"         "Idaho"
## [13] "Illinois"       "Indiana"       "Iowa"           "Kansas"
## [17] "Kentucky"       "Louisiana"     "Maine"          "Maryland"
## [21] "Massachusetts"  "Michigan"      "Minnesota"      "Mississippi"
## [25] "Missouri"       "Montana"       "Nebraska"       "Nevada"
## [29] "New Hampshire"  "New Jersey"    "New Mexico"     "New York"
## [33] "North Carolina" "North Dakota"  "Ohio"           "Oklahoma"
## [37] "Oregon"         "Pennsylvania"  "Rhode Island"   "South Carolina"
## [41] "South Dakota"   "Tennessee"     "Texas"          "Utah"
## [45] "Vermont"        "Virginia"      "Washington"     "West Virginia"
## [49] "Wisconsin"      "Wyoming"
```

```r
grep("w",states,value = TRUE)
```

```
## [1] "Delaware"      "Hawaii"       "Iowa"          "New Hampshire"
## [5] "New Jersey"    "New Mexico"   "New York"
```
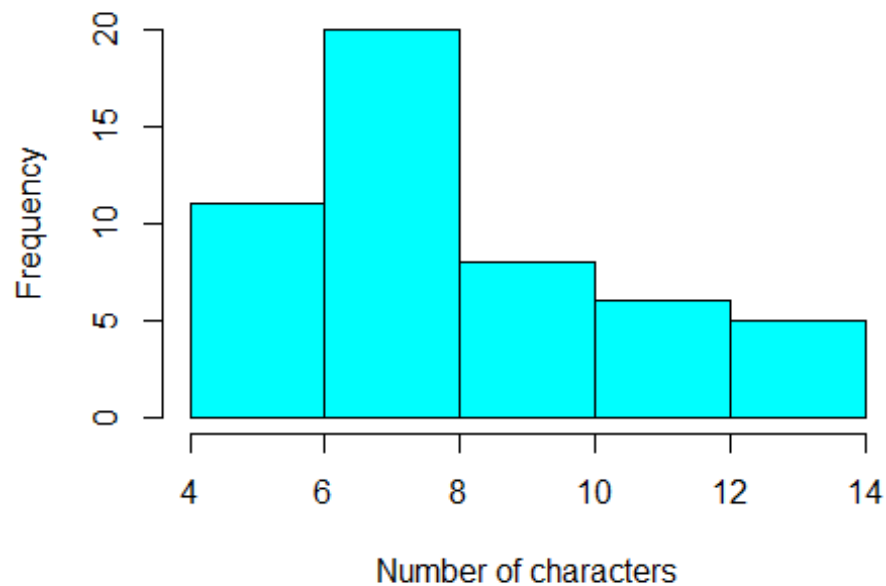
```r
grep("W",states,value = TRUE)
```

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

```r
#2. Prepare a histogram of the number of characters in each US State

statescount = nchar(states)
hist(statescount,
    main = "Histogram of number of characters in each of US State",
    col = "cyan",
    xlab = "Number of characters"
    #prob = TRUE
    )
```

Histogram of number of characters in each of US St

A histogram with x-axis labeled "Number of characters" ranging from 4 to 14, and y-axis labeled "Frequency" ranging from 0 to 20. The bars show: approximately 11 (from 4 to 6), 20 (from 6 to 8), 8 (from 8 to 10), 6 (from 10 to 12), and 5 (from 12 to 14).

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