```
USArrests
States = rownames(USArrests)
States
# Get states names with 'w'.
States[grep("w", States)]
#Get states names with 'W'.
States[grep("W", States)]
#2. Prepare a Histogram of the number of characters in each US state.
df <- nchar(States)</pre>
hist(nchar(States))
No_of_Char <- nchar(States)
str(nchar(States))
df <- data.frame(States, No_of_Char)</pre>
df
hist(df$No_of_Char,main = "No of Characters in each US state",
xlab = "States",ylab = "NO of Char in each State",
col = "green",axes = TRUE)
```

> USArrests

```
States = rownames(USArrests)
> States
[1] "Alabama"
[6] "Colorado"
[11] "Hawaii"
[16] "Kansas"
                                    "Alaska"
"Connecticut"
"Idaho"
                                                                                              "Arkansas"
"Florida"
                                                                                                                          "California"
"Georgia"
"Iowa"
                                                                 "Arizona"
                                                                 "Delaware"
"Illinois"
      "Colorauo" "Idano"
"Hawaii" "Kentucky"
"Kansas" "Michigan"
"Massachusetts" "Nebraska"
"Nebraska"
                                                                                              "Indiana"
                                                                                              "Maine"
"Mississippi"
                                                                 "Louisiana"
                                                                                                                           "Maryland"
                                                                 "Minnesota"
                                                                                                                           "Missouri
[21]
                                                                 "Nevada" "New Hampshire"
"North Carolina" "North Dakota"
"Pennsylvania" "Rhode Island"
"Texas" "Utah"
[26]
[31]
[36]
[41]
[46]
                                                                                                                          "New Jersey"
                                                                                                                          "Ohio"
"South Carolina"
        "New Mexico"
                                    "New York"
       "oklahoma"
                                    "oregon"
       "South Dakota"
                                    "Tennessee"
                                                                 "Texas
                                                                                                                          "vermont
       "Virginia"
                                    "Washington"
                                                                 "West Virginia" "Wisconsin"
                                                                                                                           "Wyoming"
> States[grep("w",
[1] "Delaware"
[7] "New York"
> States["
                                States)]
"Hawaii"
                                                            "Iowa"
                                                                                       "New Hampshire" "New Jersey"
                                                                                                                                             "New Mexico"
[/] New Tolk

> States[grep("W", States)]

[1] "Washington" "West Virginia" "Wisconsin"
                                                                                       "Wyoming"
> df <- nchar(States)
[1] 7 6 7 8 10 8 11 8 7 7 6 5 8 7 4 6 8 9 5 8 13 8 9 11 8 7 8 6 13 10 10 8 [33] 14 12 4 8 6 12 12 14 12 9 5 4 7 8 10 13 9 7 
> hist(nchar(States))
  States
[1] "Alabama"
[1] "Alabama"
[6] "Colorado"
[11] "Hawaii"
[16] "Kansas"
                                                                 "Arizona"
"Delaware"
"Illinois"
                                                                                              "Arkansas"
                                     "Alaska"
                                                                                                                           "California"
                                    "Connecticut"
"Idaho"
                                                                                              "Florida"
"Indiana"
                                                                                                                          "Georgia"
                                     "Kentucky"
                                                                 "Louisiana"
                                                                                                                           "Maryland"
                                                                                              "Maine"
[21]
[26]
[31]
[36]
[41]
[46]
        "Massachusetts" "Michigan"
                                                                                              "Mississippi"
                                                                 "Minnesota"
                                                                                                                           "Missouri"
       "Massachusetts
"Montana"
"New Mexico"
"Oklahoma"
"South Dakota"
"Virginia"
                                     "Nebraska"
                                                                 "Nevada"
                                                                                               "New Hampshire"
                                                                                                                          "New Jersey"
"Ohio"
                                    "New York"
"Oregon"
                                                                 Nevada
"North Carolina"
"Pennsylvania"
"Texas"
"West Virginia"
                                                                                             New Hampshire
"North Dakota"
"Rhode Island"
"Utah"
"Wisconsin"
                                                                                                                         "South Carolina"
                                   "Tennessee"
                                                                                                                           "vermont
                                    "Washington"
                                                                                                                           "Wyoming"
   No_of_Char <- nchar(States)
str(nchar(States))
  int [1:50] 7 6 7 8 10 8 11 8 7 7 ...
df <- data.frame(States, No_of_Char)
```

Histogram of nchar(States)



