```
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)
df
hist(nchar(States))

No_of_Char <- nchar(States)
str(nchar(States))

df <- data.frame(States, No_of_Char)
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)
```

```r
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     xlab = "States",ylab = "NO of Char in each State",
     col = "green",axes = TRUE)
```

```
> USArrests
```

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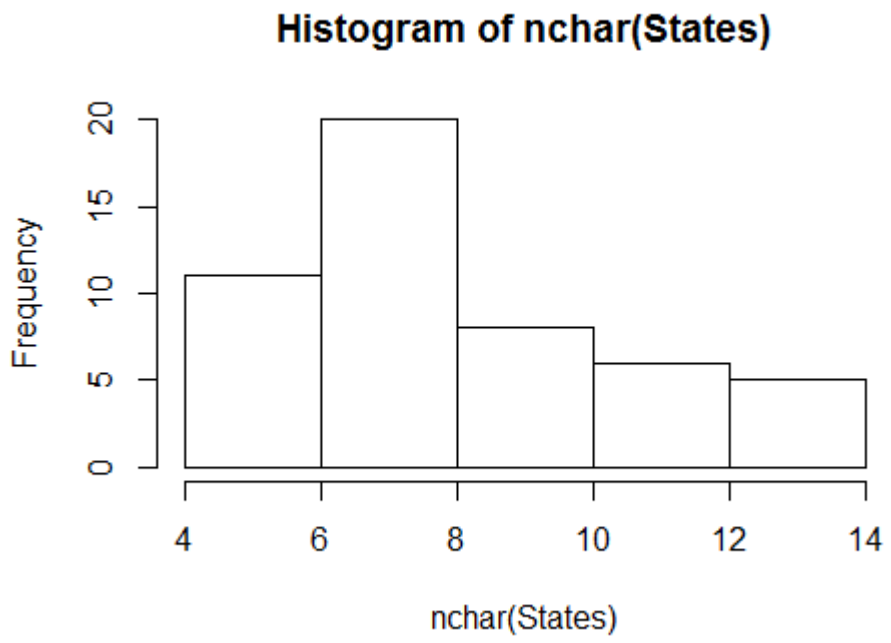
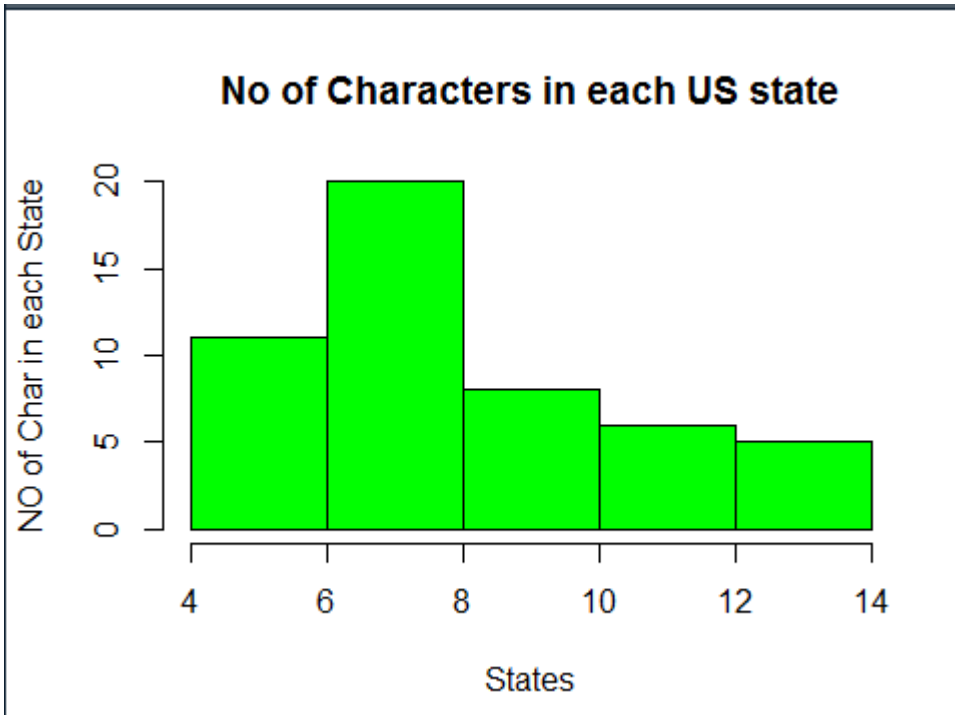

```
> hist(df$No_of_Char,main = "No of Characters in each US state",xlab = "States",ylab = "NO of Char in each State", col = "
green",axes = TRUE)
```


Histogram of nchar(States)
Frequency
0
5
10
15
20
4
6
8
10
12
14
nchar(States)


No of Characters in each US state
NO of Char in each State
0
5
10
15
20
4
6
8
10
12
14
States