1. States = rownames(US Arrests)

Get states names with ‘w’.

Get states names with ‘W’.

Answer:

states=rownames(USArrests)

# get states names with 'w'

grep(pattern = "w", x = states, value = TRUE)

##OUTPUT

**[1] "Delaware” "Hawaii" "Iowa" "New Hampshire" "New Jersey" "New Mexico" "New York"**

# get states names with 'W'

grep(pattern = "W", x = states, value = TRUE)

## OUTPUT

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

2. Prepare a Histogram of the number of characters in each US state.

Answer:

# histogram of characters

hist(nchar(states), main = "Histogram", xlab = "number of characters in US State names")

## OUTPUT

