1. States = rownames(US Arrests)

Get states names with ‘w’.

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

## [1] "delaware" "hawaii" "iowa" "new hampshire"

## [5] "new jersey" "new mexico" "new york" "washington"

## [9] "west virginia" "wisconsin" "wyoming"

Get states names with ‘W’.

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

## [1] "DELAWARE" "HAWAII" "IOWA" "NEW HAMPSHIRE"

## [5] "NEW JERSEY" "NEW MEXICO" "NEW YORK" "WASHINGTON"

## [9] "WEST VIRGINIA" "WISCONSIN" "WYOMING"

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

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

