1. How many vowels are there in the names of USA States?

Ans:

library(USArrests)

States = rownames("US Arrests")

positions\_a = gregexpr(pattern = "a", text = states, ignore.case = TRUE)

num\_a = sapply(positions\_a, function(x) ifelse(x[1] > 0, length(x), 0))

num\_a

library(stringr)

str\_count(states, "a")

vowels = c("a", "e", "i", "o", "u")

num\_vowels = vector(mode = "integer", length = 5)

for (j in seq\_along(vowels)){

num\_aux = str\_count(tolower(states), vowels[j])

num\_vowels[j] = sum(num\_aux)

}

names(num\_vowels) = vowels

num\_vowels

> num\_vowels

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1. Visualize the vowels distribution.

Ans:

barplot(num\_vowels, main = "Number of vowels in USA States names",

        border = NA, ylim = c(0, 80))

