**Assignment 3.1**

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

install.packages("stringr")

library(stringr)

data("USArrests")

View(USArrests)

rownames(USArrests)

States<- rownames(USArrests)

vowels<-c("a","e","i","o","u")

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

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

num\_aux = str\_count(tolower(States), vowels[i])

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

}

names(num\_vowels) = vowels

num\_vowels

|  |
| --- |
| > num\_vowels  a e i o u  61 28 44 36 8 |
|  |
| |  | | --- | |  | |

2) Visualize the vowels distribution.

barplot(num\_vowels,main = "No. of vowels in US states", las=1)

