Assignment 3.1

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

library(MASS)

data(USArrests)

States = rownames(USArrests)

View(States)

library(magrittr)

characters = state.name %>% strsplit(split = "") %>% unlist

#filter out vowels

vowels = characters[grepl (pattern = 'a|e|i|o|u' ,x = characters,

ignore.case = TRUE)] %>% tolower

table(vowels)

vowels

a e i o u

61 28 44 36 8

1. Visualize the vowels distribution.

library(ggplot2)

ggp <- ggplot(data.frame(vowels), aes(x=vowels))

ggp + geom\_histogram(fill="orange", stat="count")

