```
> #Pulling the names of the states from USArrests into states
  states=rownames(USArrests)
  #Converting states
> data <- data.frame(number=1:50, string = states)</pre>
  #loading library stringr
> library(stringr)
> #using the str_count function to count the vowels in each state
  data$Count_of_Vowels <- str_count(data$string, "a|e|i|o|u")</pre>
  data
   number
                     string Count_of_Vowels
                    Alabama
1
2
3
         2
                                              2
                     Alaska
         3
                                              3
                    Arizona
4
5
                                              2
5
         4
                   Arkansas
         5
                California
6
         6
                   Colorado
7
         7
               Connecticut
8
         8
                   Delaware
                                              4
                                              3
9
         9
                    Florida
                                              4
10
        10
                    Georgia
                                              4
11
        11
                     Hawaii
12
                                              2332226
        12
                      Idaho
13
        13
                   Illinois
14
        14
                    Indiana
15
        15
                        Iowa
16
        16
                     Kansas
17
        17
                   Kentucky
18
        18
                  Louisiana
                                              3
4
3
4
19
        19
                      Maine
20
        20
                   Maryland
21
        21
             Massachusetts
22
        22
                   Michigan
23
        23
                 Minnesota
               Mississippi
                                              4
24
        24
25
        25
                                              4
3
3
4
                   Missouri
26
        26
                    Montana
27
        27
                   Nebraska
        28
28
                     Nevada
29
        29
             New Hampshire
30
        30
                New Jersey
                                              3
31
                New Mexico
                                              42542324
        31
32
        32
                   New York
33
           North Carolina
        33
34
              North Dakota
35
        35
                        Ohio
36
        36
                   Oklahoma
37
        37
                     Oregon
38
        38
              Pennsylvania
                                              3
6
5
39
              Rhode Island
        39
40
        40 South Carolina
41
              South Dakota
        41
42
        42
                 Tennessee
                                              4
2
1
2
4
43
        43
                       Texas
44
        44
                        Utah
45
        45
                    Vermont
46
        46
                   Virginia
                                              3
47
        47
                Washington
                                              5
48
        48
            West Virginia
49
        49
                 Wisconsin
                                              3
        50
                                              2
50
                    Wyoming
> #renaming column names as below
> colnames(data) <- c("Number","USStates","VowelCount")</pre>
> data
```

```
Number
                   USStates VowelCount
                    Alabama
12345678
         1
2
3
                                         3
2
3
2
5
                     Alaska
                    Arizona
         4
                   Arkansas
         5
                California
                                         4
         6
                   Colorado
                                         4
         7
               Connecticut
         8
                   Delaware
                                         4
3
4
9
         9
                    Florida
10
        10
                    Georgia
                                         4233222632
11
        11
                     Hawaii
12
        12
                      Idaho
13
        13
                   Illinois
14
        14
                    Indiana
15
        15
                        Iowa
16
        16
                     Kansas
17
        17
                   Kentucky
18
        18
                  Louisiana
19
        19
                      Maine
20
        20
                   Maryland
                                         4
21
        21
             Massachusetts
22
                                         3
        22
                   Michigan
23
        23
                  Minnesota
                                         4
24
        24
                                         4
               Mississippi
25
        25
                   Missouri
                                         43334342542324365421
26
        26
                    Montana
27
        27
                   Nebraska
28
        28
                     Nevada
29
        29
             New Hampshire
30
        30
                New Jersey
31
        31
                New Mexico
32
        32
                   New York
33
        33 North Carolina
34
        34
              North Dakota
35
        35
                        Ohio
36
        36
                   Oklahoma
37
        37
                     Oregon
38
        38
              Pennsylvania
39
        39
              Rhode Island
40
        40 South Carolina
              South Dakota
41
        41
42
        42
                  Tennessee
43
        43
                      Texas
44
        44
                        Utah
                                         2
45
        45
                    Vermont
        46
                                         4
3
5
46
                   Virginia
47
        47
                Washington
48
        48
            West Virginia
49
        49
                  Wisconsin
50
        50
                    Wyoming
  #Visualize the vowels distribution.
```

> barplot(data\$vowelCount,main = "US States Vowel Count")