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> #Pulling the names of the states from USArrests into states
> states=rownames(USArrests)
> #Converting states
> data <- data.frame(number=1:50, string = states)
> #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")
> data

```

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

```

> #renaming column names as below
> colnames(data) <- c("Number","USStates","VowelCount")
> data

```

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

```

> #Visualize the vowels distribution.
> barplot(data$VowelCount,main = "US States Vowel Count")

```