

# Prelab7

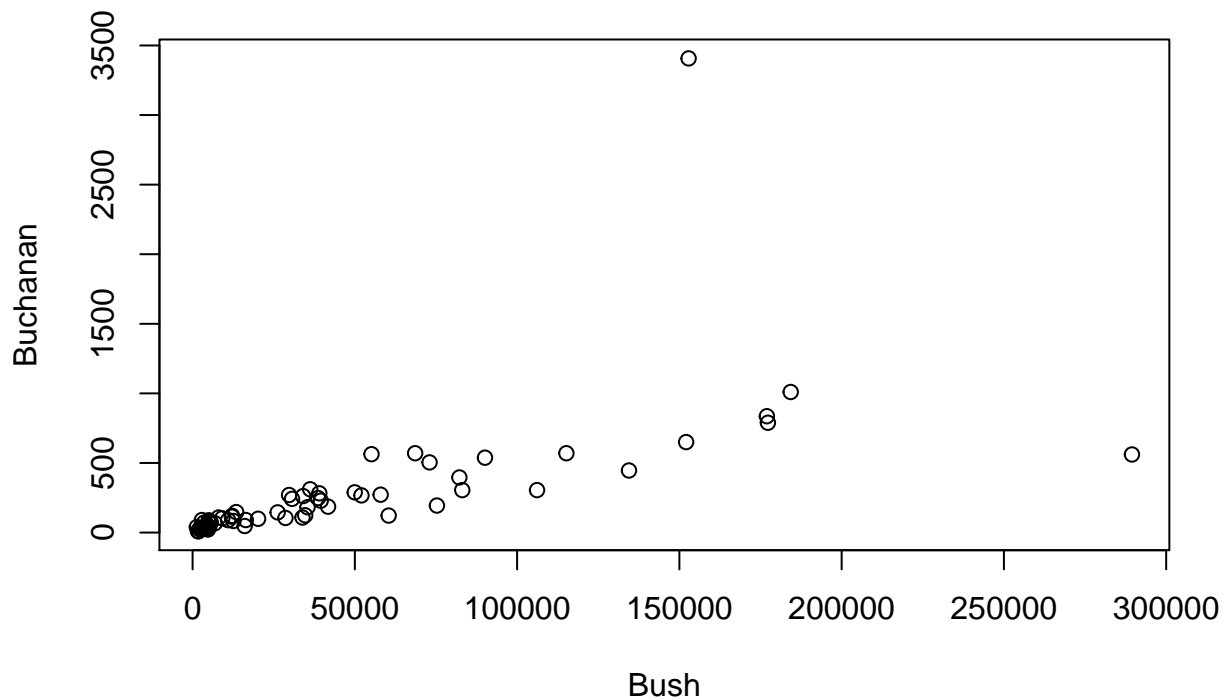
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```
##This is the Prelab7 of STATS 413  
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```

(a.)

```
florida<-read.csv("Florida.csv")  
plot(Buchanan~Bush,data=florida)
```



```
outlierTest(lm(Buchanan~Bush,data=florida),cutoff = 1)
```

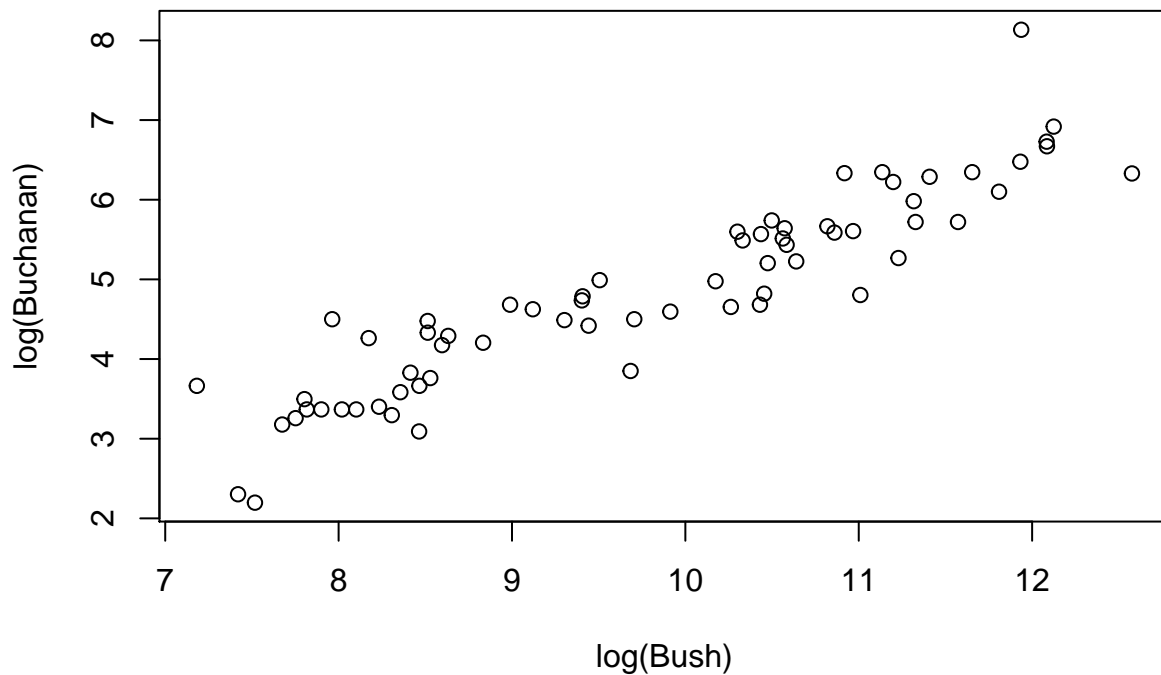
```
##      rstudent unadjusted p-value Bonferroni p  
## 50 24.080144      8.6246e-34    5.7785e-32  
## 13 -3.280922      1.6772e-03    1.1237e-01
```

*#50 is the index of Palm-beach, with extreme small Bonferroni p-value,  
#hence it should be regarded as an outlier*

*#13 is the index of Dade. The p-value is 0.1 which is greater than 0.01  
#hence we should not regard this observation as an outlier.*

(b.)

```
plot(log(Buchanan)~log(Bush),data=florida)
```



```
outlierTest(lm(log(Buchanan)~log(Bush),data=florida),cutoff = 1)
```

```
##      rstudent unadjusted p-value Bonferroni p  
## 50 4.066282      0.00013325      0.0089278
```

*#When we take the logarithm of both regression components, we can see that only  
#observation #50(Palm-beach) is appears in the outlierTest, which shows that it  
#is the only outlier of the regression.*