Homework 1

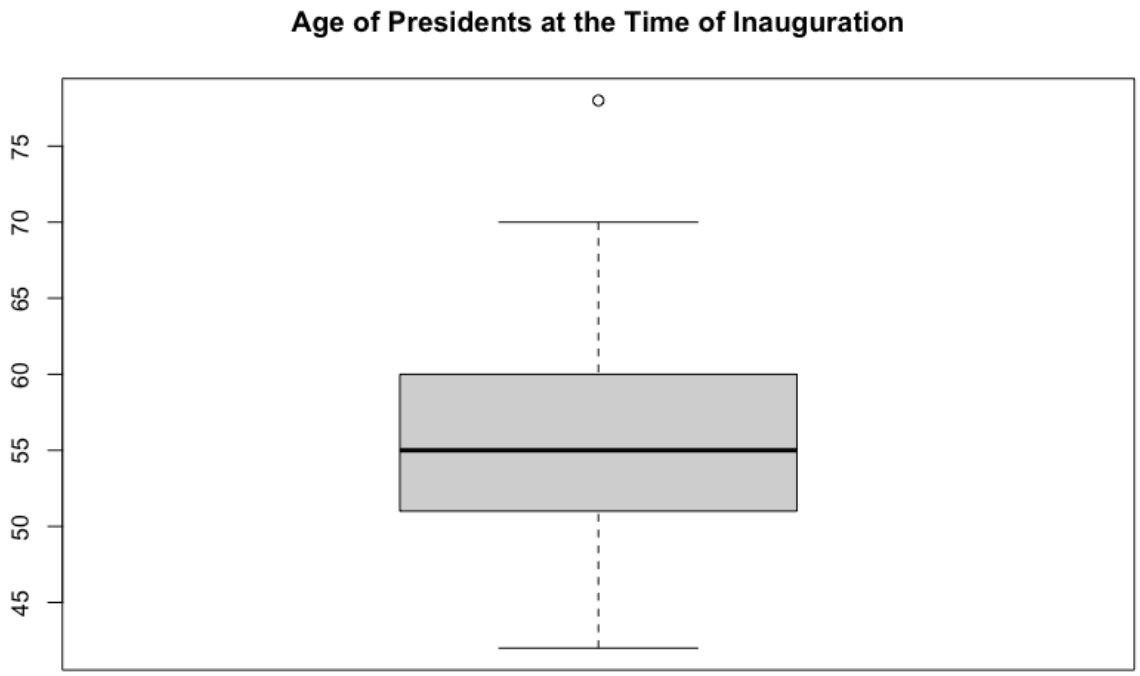
Input

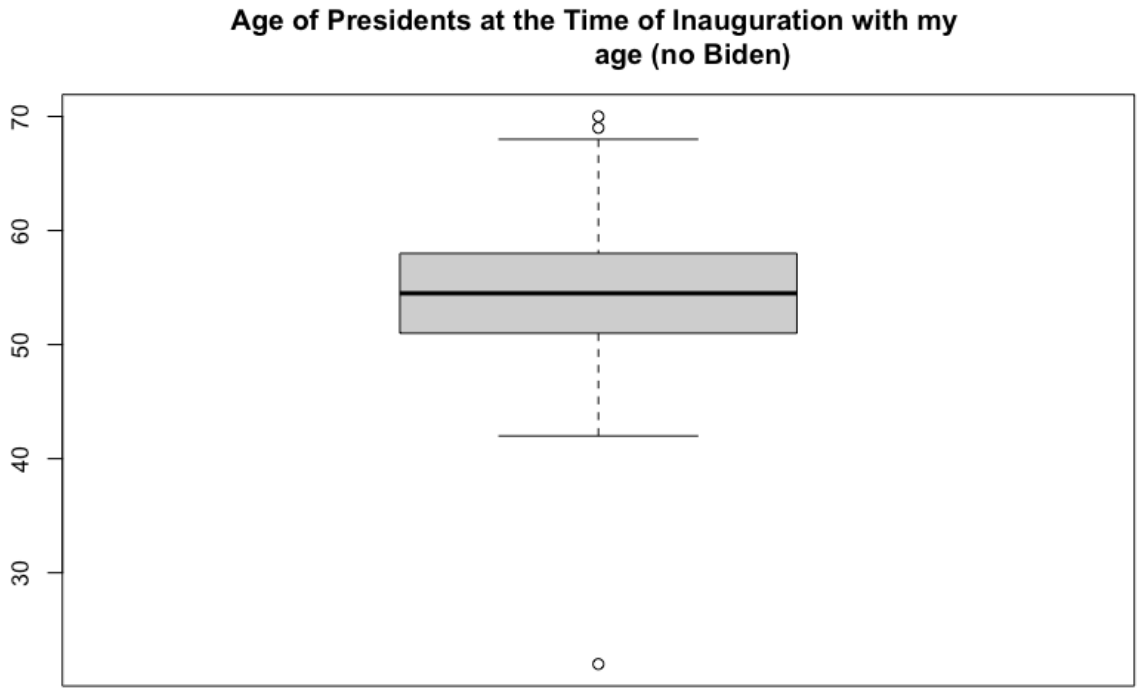
```
options(digits=1)

age<- c(57,61,57,57,58,57,61,54,68,51,49,64,50,48,65,52,56,46,54,49,51,47,55,55,
        54,42,51,56,55,51,54,51,60,61,43,55,56,61,52,69,64,46,54,47,70,78)

boxplot(age ,main = c("Age of Presidents at the Time of Inauguration"))

mean(age)

MEage<- c(57,61,57,57,58,57,61,54,68,51,49,64,50,48,65,52,56,46,54,49,51,47,55,55,
        54,42,51,56,55,51,54,51,60,61,43,55,56,61,52,69,64,46,54,47,70,22)

boxplot(MEage ,main = c("Age of Presidents at the Time of Inauguration with my
                        age (no Biden)"))

mean(MEage)
```

Output

```
> options(digits=1)
>
> age<- c(57,61,57,57,58,57,61,54,68,51,49,64,50,48,65,52,56,46,54,49,51,47,55,55,
+         54,42,51,56,55,51,54,51,60,61,43,55,56,61,52,69,64,46,54,47,70,78)
>
> boxplot(age ,main = c("Age of Presidents at the Time of Inauguration"))
>
> mean(age)
[1] 55
>
> MEage<- c(57,61,57,57,58,57,61,54,68,51,49,64,50,48,65,52,56,46,54,49,51,47,55,55,
+         54,42,51,56,55,51,54,51,60,61,43,55,56,61,52,69,64,46,54,47,70,22)
>
> boxplot(MEage ,main = c("Age of Presidents at the Time of Inauguration with my
+                         age (no Biden)"))
>
> mean(MEage)
[1] 54
>
```

Graphs


Age of Presidents at the Time of Inauguration
45
50
55
60
65
70
75



After switching Joe Biden's age to my age, I noticed that the average only changes by one year old. I expected that to be more, however with my age being the only difference, it would take a lot more 22's to drastically change that average. On the graph with Biden, his age was the outlier with the next closest age being 70 and when I took him out and put in my age, mine was the outlier.