STA305A1

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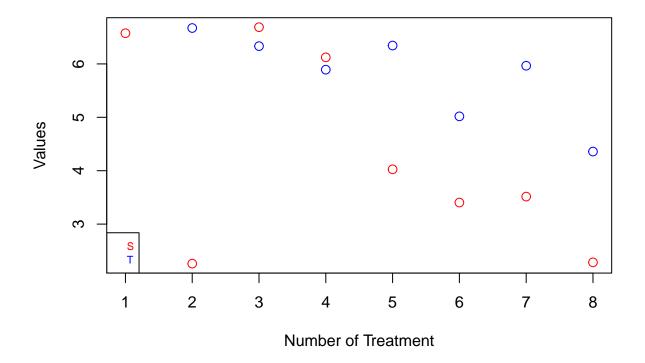
STA305 Assignment 1, student

Studetn number 1002079877

Question A

```
set.seed(9877)
Number<-c(1:8)
TreatS<-round(rnorm(8,mean=5,sd=2),3)
TreatT<-round(rnorm(8,mean=7,sd=2),3)
diff<-TreatS-TreatT
compD<-data.frame(Number,TreatS,TreatT,diff)

plot(compD$Number,compD$TreatS,col="red",cex=1.2,xlab="Number of Treatment",ylab="Values")
points(compD$Number,compD$TreatT,col="blue",cex=1.2)
legend("bottomleft",legend=c("S","T"),text.col=c("red","blue"),cex = 0.7)</pre>
```



compD

```
##
     Number TreatS TreatT
                             diff
## 1
          1
             6.575
                    8.244 -1.669
## 2
          2
             2.260
                    6.672 -4.412
## 3
             6.688
                    6.333 0.355
          3
## 4
          4
             6.123
                    5.892 0.231
## 5
             4.026
                    6.344 -2.318
## 6
             3.404
                    5.018 -1.614
## 7
          7
             3.515
                    5.966 -2.451
## 8
             2.284
                    4.359 -2.075
```

(1)-(4)

The seed is 9877.

The first treatment S is 6.575, 2.26, 6.688, 6.123, 4.026, 3.404, 3.515, 2.284.

The second treatment T is 8.244, 6.672, 6.333, 5.892, 6.344, 5.018, 5.966, 4.359.

The oberservation is compD.

Question 2