Problem Set 7

JP

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You are interested in whether or not your intervention to reduce depression in college students worked. You collected baseline depression data then provided your intervention and tested all students after the intervention. Check to make sure your intervention significantly reduced depression levels from baseline to after the intervention.

time\_points <- data.frame(depress\_t1 = c(18, 14, 16, 13, 19, 20),  
 depress\_t2 = c(7, 4, 8, 10, 6, 4))  
time\_points

## depress\_t1 depress\_t2  
## 1 18 7  
## 2 14 4  
## 3 16 8  
## 4 13 10  
## 5 19 6  
## 6 20 4

## What are our two hypotheses

H0: H1:

## Get the means for both conditions

## Get the df and sum of squares values for both conditions

## What are the variance and standard deviation values for both conditions

## Get the difference between each value

## Get the average difference between the two values

## Get the sum of squares for the differences

## Get the variance and standard deviation of the differences

## Get the standard error

## Get your t-obtained value

## Is it significant?