problem\_set\_7\_example

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times <- data.frame(participants = c(1, 2, 3, 4, 5, 6),  
 t1 = c(3, 3, 4, 2, 1, 1),  
 t2 = c(6, 8, 9, 9, 10, 7))  
times

## participants t1 t2  
## 1 1 3 6  
## 2 2 3 8  
## 3 3 4 9  
## 4 4 2 9  
## 5 5 1 10  
## 6 6 1 7

## Paired Samples t-test Equation

## Get the means, variances, and standard deviations for both time points

### Mean - Time Point 1

### Mean - Time Point 2

### Variance - Time Point 1

### Variance - Time Point 2

### SD - Time Point 1

### SD - Time Point 2

## Get the differences between the two time points

## Get the average difference

## Get the sum of squares for the difference

## Get the df for the difference

## Calculate the paired-samples t-test

## Is your finding statistically significant?

## Interpretation