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Analyze the Data

Primary Research Quesitons

- 1. Who is happier at the beginning of the semester: under-classmen or upper-classmen?
- 2. Does student happiness change from the beginning of the semester to the end?

Conduct the Analysis in R

- 1. Type or copy the script from the the Prepare for the Analysis section into the Script window of R.
- 2. Select the portion of the code you wish to run, then press "ctrl+ enter."
- 3. Output can be found in the Console window.

(5 points possible)

Lab Question 1

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At the beginning of the semester:

1a. What percent of the time, on average, were underclassmen happy? (round to one decimal place)

Answer: 79.7

Help

1b. What percent of the time, on average, were upperclassmen happy? (round to one decimal place

Answer: 78.3

Report test results, rounded to 3 decimal places:

1c. t-statistic=

Answer: 0.423	
1d. p-value=	
Answer: 0.675	
1e. We should	
	fail to reject the null hypothesis that there is no difference in happiness between under- and upper- beginning of the semester.
Hide Answer	You have used 0 of 2 submissions
(5 points possible Lab Question 2a. How many stu	

Answer: 214

2b. The average change in happiness was 1.27%. Was this an increase or decrease over the semester?

Answer: Decrease

Report test results, rounded to 3 decimal places:

2c. t-statistic=

Answer: 1.684

2d. p-value=

Answer: 0.094

2e. We should 4 of 6

onduct the Analysis Pr	e-Lab UT.7.01x Co	ourseware edX	https://courses.edx.org/courses/UTAustinX/UT.7.01x/3T2014/courseware/ac18		
	fail to reject	the null hypothesis	s that there is no change in happiness over the semester.		
Hide Answer You have used 0 of 2 submissions					
(3 points possi	ble)				
What were the s	hat were the shapes of these distributions?				
Lab Question '	ı				
3a. The distribu	tion of underc	lassmen happiness v	vas		
	left-skewed	d			
3b. The distribu	tion of upperc	lassmen happiness v	vas		
	left-skewe	d			
Lab Quesiton 2	2				
3c. The distribution of happiness difference scores was			was		
			nearly Normal but with a slight positive skew		

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You have used 0 of 2 submissions





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