Homework 4
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Question I. Mean annual of cuman minful for Northendon 11.50
Mean amount of summer rainfall for Northeadern: 11.52 20 cities are randomly selected -> mean: 10.52 5 d: 1.5
(1) With 99% confidence lovel, Can it be concluded that the Sample mean of rainfall was less than the average in north eastern US?
S Ho : The sample mean of rainfall is equal to the away to ne LH. The sample mean of rainfall is less than the average to north easter
tv, x = 2.539
$X = (0.52)$ $X = 1.5$ $X = (0.52 - 1.52)$ $X = 1.5 / \sqrt{50}$
n = 20
One-tailed = -2.982
-2 at -2 sy 2 2 539
Therefore We can reject the (null) and conclude that
Therefore We can reject the (null) and conclude that the sample mean of rainfall was less than the average of north earstern in U.S at 0,9% confidence (out).
(2) What of the sample mean of rainfall as 10.52, S = 1.5 from the
S = 1.5 $n = 10$ $t_c = 10.52 - 11.52 = -2.108$
a= 0.0/
1 ts,a (> tc)
2.70-1 - LIVD

> thus, we cannot reject H. (null) and conclude that there is not enough evidence to coinclude that the sample mean of rainfall is less than average.