QUIZ 8

1. Compute, for population A and B, a 95% confidence interval for the mean. Do the two intervals intersect?

	n	$\bar{x}$	s
A	6	120	10
B	10	125	9

2. Do the following data support the belief that the mean of a population A is less than the mean of population B? Complete the test with a 5% level of significance.

3. Suppose your null hypothesis and alternate hypothesis are:

$$H_0 : \mu = 10 \qquad H_a : \mu > 10.$$

After computing the sample mean $\bar{x} = 12$ you are able to reject the null hypothesis with a level of significance $\alpha = 5\%$. If null hypothesis and alternate hypothesis were instead

$$H_0 : \mu = 10 \qquad H_a : \mu \neq 10$$

would you be able to reject the null hypothesis with a level of significance $\alpha = 5\%$?

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With a level of significance $\alpha = 10\%$?

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