Discussion

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★ Course / UNIT 3 / Lecture 7 - Inferential Statistics

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Exercise 2

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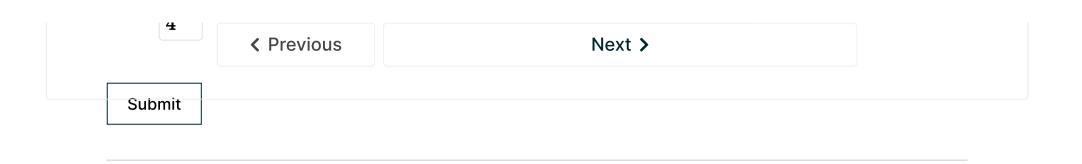
Exercise 2

5/5 points (graded)

For the questions below, please try to think about the solution in your head before using an IDE or a calculator to compute it. The goal of these questions is to give you some intuition about the topics we've been discussing.

	n of the following populations has the largest variance?
	[0, 1, 2, 3, 4, 5, 6]
	[3, 3, 3, 3, 3, 3]
	[0, 0, 0, 3, 6, 6, 6]
~	
. Which	of the following populations has the largest variance?
	[3, 3, 5, 7, 7]
	[1, 5, 5, 5, 9]
~	
. If a nu	umber is removed from a population, the standard deviation of that population will always decrease.
	True
	False
	re taking samples of the ages of two populations, A and B. Population A is all the residents of San
The s	isco, while Population B is all the residents of Los Angeles. ample from Population A has a mean of 35 and a standard deviation of 1. The sample from Population a mean of 45 and a standard deviation of 15. Which of the following are certain?
	You will not find an individual in Population A that is over the age of 37.
	The average age of Population A is lower than the average age of Population B.
✓	The average age of the sample of Population A is lower than the average age of the sample of Population B.
	If the sample size of each population is 10, then you can conclude that your sample accurately represents the population.
✓	A sample size of 1 million is more appropriate than a sample size of 10 for these populations.
5. The 9 2 is 5	5% confidence interval for a normal distribution of data with a mean of 5 and a standard deviation of

■ Calculator





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