

## Edit Quiz

Save and Exit

## Quiz name

Weekly quiz 6 (DUE: Fri Sep 1, 10am)

1	MULTIPLE CHOICE	Edit
ln pe othe	ermutation one variable is with breaks association v r variables.	vith all the
Ans	wer choices	
Α	shuffled	
В	removed	
С	modeled	
D	averages	

2	MULTIPLE CHOICE	Edit
In sir	nulation, values are randomly from a known distribut	tion or model.
Ans	wer choices	
Α	drawn	
В	dropped	
С	averaged	
D	shuffled	

MULTIPLE CHOICE	Edit	
otstrap, new samples are generated by with replace ng sample.	ment the	'L
wer choices		₽
sampling		
shuffling		
averaging		
normalising		
	MULTIPLE CHOICE otstrap, new samples are generated by with replace ing sample. wer choices sampling shuffling averaging normalising	MULTIPLE CHOICE Edit   otstrap, new samples are generated by with replacement the registration of the sample. wer choices   sampling   shuffling   averaging   normalising

## Х **MULTIPLE CHOICE** Edit 4 Ē Using a computer, we took 10,000 bootstrap samples and computed the standard deviation for each. This is called the \_\_\_\_\_\_ distribution of the standard deviation. **Answer choices** Α sampling normal R C bootstrap null D Х 5 **MULTIPLE CHOICE** Edit Ē The textbook explanation of bootstrap is to study the distribution of a statistic that is complicated to do mathematically. It focuses on studying the standard deviation, and in particular looking at its sampling distribution, which is the distribution of the standard deviation computed on all possible samples from the population. The textbook states "The bootstrap distribution for the standard deviation will be a good approximation of the sampling distribution for the standard deviation when": (choose all that apply) **Answer choices** observations in the original sample are independent Α the original sample size is at least 30 B the bootstrap distribution is nearly normal C none of these D

6	MULTIPLE CHOICE	Edit
To co you i	ompute a 90% bootstrap confidence interval using the percen need to	tile method,
(1) d	raw B bootstrap samples.	
(2) co	ompute the statistic of interest, call it thetahat, on each of the	se.
(3) 0	rder the values of thetahat, giving the sample quantiles	
(4) se	elect the x'th and the y'th values	
Wha	t are x and y?	
Ans	wer choices	
Α	2.5, 97.5	
В	5, 95	
С	10, 90	
D	None of these	
7		

7 Edit TRUE/FALSE A confidence interval for a predicted value is the same thing as a prediction interval.

Answer		
False		

Ū

8	MULTIPLE CHOICE	Edit
In st	atistics, bootstrapping is any test or metric that relies on rando replacement	om sampling
Ans	wer choices	
Α	with	
В	without	
С	not	
D	and	
9	MULTIPLE CHOICE	Edit
Boot mea	strapping is the practice of estimating properties of an estima suring those properties when sampling from an dis	tor by tribution.
Ans	wer choices	
Α	sampling	
В	normal	
С	bootstrap	
D	approximating	

11	MULTIPLE CHOICE	Edit	
Boot mea	strap is generally useful for estimating the distribution of a standard variance) without using (e.g. z-statistic, t-statistic)	atistic (e.g. )	
Ans	wer choices		
А	sampling distributions		
В	standard statistics		
С	normal theory		
D	normal tables		

12	MULTIPLE CHOICE	Edit	X
theo	comes in handy when there is no analytical form or ry to help estimate the distribution of the statistics of interest	normal t	'⊔' <b>≜</b>
Ans	wer choices		₽
Α	Permutation		
В	Simulation		
С	Bootstrap		
D	The normal model		
13	MULTIPLE CHOICE	Edit	X
Boot that	strapping can be interpreted in a framework usin creates new datasets through reweighting the initial data. wer choices	g a scheme	⊡ ♠ ₽
A	Bayesian		•
В	Parametric		
С	Regression		

14	MULTIPLE CHOICE	Edit
The <u>.</u> corre	bootstrap is used when the data, or the errors in a modelated.	del, are
Ans	wer choices	
Α	block	
В	Bayesian	
С	parametric	
D	percentile	
15	MULTIPLE CHOICE	Edit
<b>15</b> The	MULTIPLE CHOICE	Edit up by their
<b>15</b> The <b>1</b>	MULTIPLE CHOICE name "bootstrapping" comes from the phrase, "To lift oneself" This refers to something that is preposterous and impo	Edit up by their ssible.
15 Гhe Ans	MULTIPLE CHOICE name "bootstrapping" comes from the phrase, "To lift oneself" This refers to something that is preposterous and impo wer choices bootstraps	Edit up by their ssible.
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15 The Ans A B	MULTIPLE CHOICE name "bootstrapping" comes from the phrase, "To lift oneself ." This refers to something that is preposterous and impo wer choices bootstraps socks	Edit up by their ssible.
15 The Ans A B C	MULTIPLE CHOICE name "bootstrapping" comes from the phrase, "To lift oneself" This refers to something that is preposterous and impo wer choices bootstraps socks ponytail	Edit up by their ssible.