Nar	me Date
	LAB 3D: Are you sure about that?  Response Sheet
Dire	ections: Record your responses to the lab questions in the spaces provided.
Cor	nfidence and intervals
In ti	his lab  The United States has an estimated population of 327,350,075. How many people were surveyed for this particular data set?
•	Why is it important that the ATUS is a random sample?
•	Use our atus data to calculate an estimate for the average age of people older than 15 living in the U.S.
One	e bootstrap
Our	r first bootstrap

## Take a look

Write a paragraph that explains to someone that's not familiar with R how you created bs\_rows and bs\_atus. Be sure to include an explanation of what the values of bs\_rows mean and how those values are used to create bs\_atus. Also, be sure to explain what each argument of each function does.

N.I	Dete
ivar	Date LAB 3D: Are you sure about that?
	Response Sheet
On	e strap, two strap
Ma	ny bootstraps
Во	otstrap function
Vis	ualizing our bootstraps
•	Create a histogram for your bootstrapped samples and describe the center, shape and spread of its distribution.
Во	otstrapped confidence intervals
•	Using your histogram, fill in the statement below:  The lowest 5% of our estimates are below years and the highest 5% of our estimates are above years.
•	Based on your bootstrapped estimates, between which two ages are we 90% confident the actual mean age of people living in the U.S. is contained?
On •	your own Why is the 95% confidence interval wider than the 90% interval?

Write down how you would explain what a 95% confidence interval means to someone not taking *Introduction to Data Science*.