Week 3 Quiz

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5/5 points earned (100%)

Quiz passed!



1/1 points

1

Take a look at the 'iris' dataset that comes with R. The data can be loaded with the code:

- 1 library(datasets)
- 2 data(iris)

A description of the dataset can be found by running

1 ?iris

There will be an object called 'iris' in your workspace. In this dataset, what is the mean of 'Sepal.Length' for the species *virginica*? **Please round your answer to the nearest whole number**.

(Only enter the numeric result and nothing else.)

7

Correct Response

To get the answer here, you can use 'tapply' to calculate the mean of 'Sepal.Length' within each species.



1/1 points

2.

return	nuing with the 'iris' dataset from the previous Question, what R code is a vector of the means of the variables 'Sepal.Length', 'Sepal.Width', Length', and 'Petal.Width'?
0	colMeans(iris)
0	apply(iris[, 1:4], 2, mean)
Corr	rect Response
0	apply(iris, 1, mean)
0	apply(iris[, 1:4], 1, mean)
0	rowMeans(iris[, 1:4])
0	apply(iris, 2, mean)
3. Load t	1 / 1 points he 'mtcars' dataset in R with the following code
1 2	library(datasets) data(mtcars)
	will be an object names 'mtcars' in your workspace. You can find some nation about the dataset by running
1	?mtcars
	an one calculate the average miles per gallon (mpg) by number of ers in the car (cyl)? Select all that apply.
	mean(mtcars\$mpg, mtcars\$cyl)
	r ect Response returns an error in R.
	apply(mtcars, 2, mean)

this computes the mean of each column.				
split(mtcars, mtcars\$cyl)				
Correct Response this just splits the data frame by number of cylinders				
sapply(mtcars, cyl, mean)				
Correct Response this returns an error in R.				
tapply(mtcars\$mpg, mtcars\$cyl, mean)				
Correct Response				
lapply(mtcars, mean)				
Correct Response this calculates the mean of each column and returns them in a list				
tapply(mtcars\$cyl, mtcars\$mpg, mean)				
Correct Response this computes the mean number of cylinders by mpg.				
sapply(split(mtcars\$mpg, mtcars\$cyl), mean)				
Correct Response				
with(mtcars, tapply(mpg, cyl, mean))				
Correct Response				



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Continuing with the 'mtcars' dataset from the previous Question, what is the absolute difference between the average horsepower of 4-cylinder cars and the average horsepower of 8-cylinder cars?

(**Please round your final answer to the nearest whole number**. Only enter the numeric result and nothing else.)

127			

Correct Response



1/1 points

5. If you run

1 debug(ls)

what happens when you next call the 'ls' function?

O	The 'ls' function will return an error.
\circ	The 'ls' function will execute as usual

O You will be prompted to specify at which line of the function you would like to suspend execution and enter the browser.

 Execution of 'ls' will suspend at the beginning of the function and you will be in the browser.

Correct Response





