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## Week 3 Quiz



4/5 questions correct

Quiz passed!

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1.

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

library(datasets)
data(iris)

A description of the dataset can be found by running

?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

## Well done!

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



Continuing with the 'iris' dataset from the previous Question, what R code returns a vector of the means of the variables 'Sepal.Length', 'Sepal.Width', 'Petal.Length', and 'Petal.Width'?

apply(iris, 1, mean)

apply(iris[, 1:4], 1, mean)

## Sorry, that's incorrect.

this takes the row means of the dataset.

$\circ$	apply(iris, 2, mean)
	ر و ، م الم

apply(iris[, 1:4], 2, mean)

orwMeans(iris[, 1:4])

colMeans(iris)



3.

Load the 'mtcars' dataset in R with the following code

library(datasets)
data(mtcars)

There will be an object names 'mtcars' in your workspace. You can find some information about the dataset by running

?mtcars

How can one calculate the average miles per gallon (mpg) by number of cylinders in the car (cyl)? Select all that apply.

with(mtcars, tapply(mpg, cyl, mean))

Well done!		
lapply(mtcars, mean)		
Well done! this calculates the mean of each column and returns them in a list		
split(mtcars, mtcars\$cyl)		
Well done! this just splits the data frame by number of cylinders		
tapply(mtcars\$cyl, mtcars\$mpg, mean)		
Well done! this computes the mean number of cylinders by mpg.		
sapply(split(mtcars\$mpg, mtcars\$cyl), mean)		
Well done!		
apply(mtcars, 2, mean)		
Well done! this computes the mean of each column.		
mean(mtcars\$mpg, mtcars\$cyl)		
Well done! this returns an error in R.		
sapply(mtcars, cyl, mean)		
Well done! this returns an error in R.		

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	tapply(mtcars\$mpg, mtcars\$cyl, mean)
Wel	Il done!
<b>~</b>	4.
absolu	uing with the 'mtcars' dataset from the previous Question, what is the ite difference between the average horsepower of 4-cylinder cars and erage horsepower of 8-cylinder cars?
	e round your final answer to the nearest whole number. Only enter the ric result and nothing else.)
12	7
Wel	Il done!
<b>~</b>	5.
If you	run
ii you	Tuli
debu	g(ls)
what h	nappens when you next call the 'ls' function?
0	The 'ls' function will execute as usual.
0	Execution of 'ls' will suspend at the beginning of the function and you will be in the browser.
Wel	Il done!
0	You will be prompted to specify at which line of the function you would like to suspend execution and enter the browser.
0	The 'ls' function will return an error.





