## X

## Week 3 Quiz



2/5 questions correct

You haven't passed yet. You need at least 4 questions correct to pass.

Review the material and try again! You have 3 retakes every 8 hours.

Review Related Lesson (/learn/r-programming/home/week/3)



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.)

6

Sorry, that's not what we're looking for.



2.

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'?

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

## Well done!

0	apply(iris[, 1:4], 1, mean)
0	rowMeans(iris[, 1:4])
0	apply(iris, 1, mean)
0	colMeans(iris)

apply(iris, 2, mean)



3.

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

library(datasets)
data(mtcars)

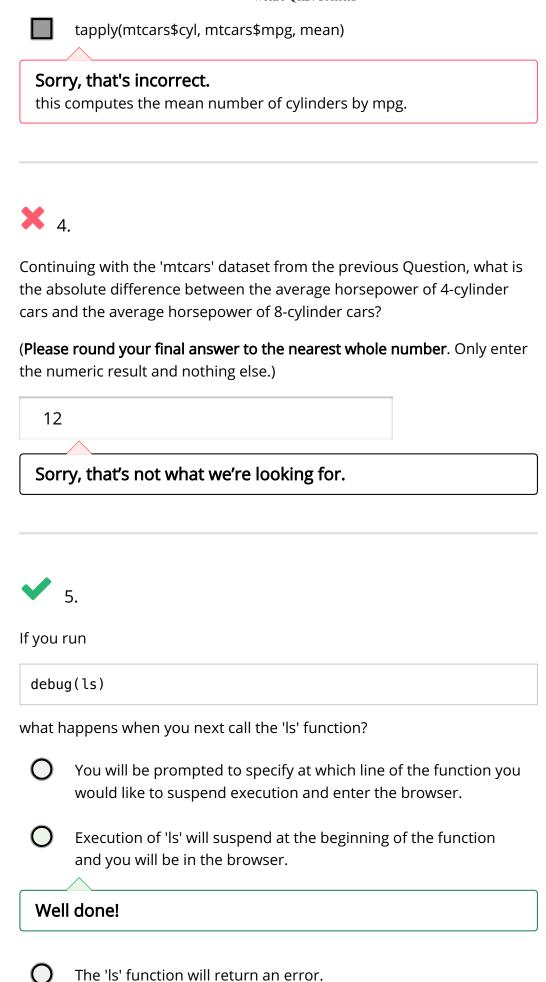
There will be an object names 'mtcars' in your workspace. You can find some information about the dataset by running

?mtcars

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

lapply(mtcars, mean)

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





Execution of the 'ls' function will suspend at the 4th line of the function and you will be in the browser.





