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The "Data Science" Specialization

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Week 3 Quiz

The due date for this quiz is Sun 27 Dec 2015 4:30 PM PST.

In accordance with the Coursera Honor Code, I (Hugo Soares) certify that the answers here are my own work.

Question 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 only enter the numeric result and nothing else.)

Question 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'?

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

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Question 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)?

- sapply(split(mtcars\$mpg, mtcars\$cyl), mean)
- lapply(mtcars, mean)
- sapply(mtcars, cyl, mean)
- split(mtcars, mtcars\$cyl)

Question 4

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?

Question 5

If you run

debug(ls)

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

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

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C	The 'ls' function will return an error.
C	Execution of 'ls' will suspend at the beginning of the function and you will be in the browser.

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

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Submit Answers

Save Answers

You cannot submit your work until you agree to the Honor Code. Thanks!