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Week 3 Quiz

5 questions

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

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

0	apply(iris[, 1:4], 2, mean)	
0	rowMeans(iris[, 1:4])	
0	colMeans(iris)	
3. Load th	ne 'mtcars' dataset in R with the following code	
library(datasets) data(mtcars)		
	will be an object names 'mtcars' in your workspace. You can find nformation about the dataset by running	
?mtcars		
	on one calculate the average miles per gallon (mpg) by number of rs in the car (cyl)? Select all that apply.	
	with(mtcars, tapply(mpg, cyl, mean))	
	lapply(mtcars, mean)	
	split(mtcars, mtcars\$cyl)	
	tapply(mtcars\$cyl, mtcars\$mpg, mean)	
	sapply(split(mtcars\$mpg, mtcars\$cyl), mean)	
	apply(mtcars, 2, mean)	
	mean(mtcars\$mpg, mtcars\$cyl)	
	sapply(mtcars, cyl, mean)	
	tapply(mtcars\$mpg, mtcars\$cyl, mean)	

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?

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

12	7	
5. If you i	run	
debug(ls)		
what happens 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.	
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.	
Submit Quiz		





