Week 4 Quiz



10/10 questions correct

Quiz passed!

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What is produced at the end of this snippet of R code?

set.seed(1) rpois(5, 2)A vector with the numbers 3.3, 2.5, 0.5, 1.1, 1.7

A vector with the numbers 1, 4, 1, 1, 5

It is impossible to tell because the result is random

A vector with the numbers 1, 1, 2, 4, 1

Well done!

Because the `set.seed()' function is used, `rpois()' will always output the same vector in this code.



What R function can be used to generate standard Normal random variables?

qnorm

dnorm

Well done!

Functions beginning with the `r' prefix are used to simulate random variates.

pnorm



3.

When simulating data, why is using the set.seed() function important? Select all that apply.

It ensures that the sequence of random numbers is truly random.

Well done!

	It ensures that the sequence of random numbers starts in a specific place and is therefore reproducible.
Wel	I done!
	It can be used to generate non-uniform random numbers.
Wel	I done!
	It ensures that the random numbers generated are within specified boundaries.
Wel	l done!
~	4.
Which distrib	function can be used to evaluate the inverse cumulative distribution function for the Poisson ution?
0	qpois
Prob	done! Pability distribution functions beginning with the `q' prefix are used to evaluate the quantile erse cumulative distribution) function.
0	dpois
O	rpois
0	ppois
	5. loes the following code do?
x <-	seed(10) rep(0:1, each = 5) rnorm(10, 0, 20) 0.5 + 2 * x + e
0	Generate data from a Normal linear model
Wel	l done!
0	Generate random exponentially distributed data
0	Generate data from a Poisson generalized linear model
0	Generate uniformly distributed random data
~	6.

What R function can be used to generate Binomial random variables?

O pbinom

0	dbinom
0	rbinom
We	ell done!
0	qbinom
~	7.
What	aspect of the R runtime does the profiler keep track of when an R expression is evaluated?
0	the global environment
0	the working directory
0	the function call stack
We	ell done!
0	the package search list
libr Rpro fit Rpro (Assu	<- $lm(y \sim x1 + x2)$ of (NULL) me that y, x1, and x2 are present in the workspace.) Without running the code, what percentage of the me is spent in the 'lm' function, based on the 'by.total' method of normalization shown in
O	naryRprof()'? It is not possible to tell
0	23%
0	100%
Wh	ell done! en using `by.total' normalization, the top-level function (in this case, `lm()') always takes 100% of time.
0	50%
~	9.
When	using 'system.time()', what is the user time?
0	It is the time spent by the CPU waiting for other tasks to finish
0	It is a measure of network latency
0	It is the "wall-clock" time it takes to evaluate an expression
0	It is the time spent by the CPU evaluating an expression

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Wel	Well done!	
~	10.	
	mputer has more than one available processor and R is able to take advantage of that, then which of lowing is true when using 'system.time()'?	
0	user time is 0	
0	elapsed time is 0	
0	user time is always smaller than elapsed time	
0	elapsed time may be smaller than user time	
Wel	l done!	





