Week 4 Quiz

Quiz, 10 questions

~	Congratulations! You passed!	Next Item	
~	1/1 point		
1.			
What i	s produced at the end of this snippet of R code?		
1 2	<pre>set.seed(1) rpois(5, 2)</pre>		
	It is impossible to tell because the result is random		
	A vector with the numbers 1, 4, 1, 1, 5		
0	A vector with the numbers 1, 1, 2, 4, 1		
Correct Because the `set.seed()' function is used, `rpois()' will always output the same vector in this code.			
	A vector with the numbers 3.3, 2.5, 0.5, 1.1, 1.7		
~	1/1 point		
2.			
What I	R function can be used to generate standard Normal random variables?		
	qnorm		
	dnorm		
0	rnorm		

Correct

Functions beginning with the `r' prefix are used to simulate random variates. Week 4 Quiz Quiz, 10 questions pnorm		
3. When s	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.	
Un-se	elected is correct	
	It can be used to generate non-uniform random numbers.	
Un-se	elected is correct	
	It ensures that the random numbers generated are within specified boundaries.	
Un-se	elected is correct	
	It ensures that the sequence of random numbers starts in a specific place and is therefore reproducible.	
Corre	ect	
~	1 / 1 point	
4. Which 1	function can be used to evaluate the inverse cumulative distribution function for the Poisson distribution?	
	ppois	
	rpois	
	dpois	
\bigcirc	qpois	

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Quiz, Pitto passility sdistribution functions beginning with the `q' prefix are used to evaluate the quantile (inverse cumulative distribution) function.

	1/1
	point
5.	
What o	does the following code do?
2	<pre>set.seed(10) x <- rep(0:1, each = 5) e <- rnorm(10, 0, 20) y <- 0.5 + 2 * x + e</pre>
	Generate data from a Poisson generalized linear model
	Generate uniformly distributed random data
0	Generate data from a Normal linear model
Corr	ect
	Generate random exponentially distributed data
	1./1
~	1/1 point
6.	
What F	R function can be used to generate Binomial random variables?
	pbinom
0	rbinom
Corr	ect

dbinom

qbinom

/12/2019	R Programming - Home Coursera
Week	4 Quiz
Quiz, 10 q	point
7. What a	aspect of the R runtime does the profiler keep track of when an R expression is evaluated?
	the working directory
	the package search list
0	the function call stack
Corr	ect
	the global environment
8. Consid	1/1 point fer the following R code
1 2 3 4	<pre>library(datasets) Rprof() fit <- lm(y ~ x1 + x2) Rprof(NULL)</pre>
	ne that y, x1, and x2 are present in the workspace.) Without running the code, what percentage of the run time in the 'lm' function, based on the 'by.total' method of normalization shown in 'summaryRprof()'?

	It is not possible to tell
	23%
	50%
0	100%

Correct

When using `by.total' normalization, the top-level function (in this case, `lm()') always takes 100% of the time.

1/12/2019	
Week	4 Quiz
Quiz, 10 q 9.	uestions
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iiz, 10 q Ə.	uestions	
When เ	using 'system.time()', what is the user time?	
0	It is the time spent by the CPU evaluating an expression	
Correct		
	It is the "wall-clock" time it takes to evaluate an expression	
	It is the time spent by the CPU waiting for other tasks to finish	
	It is a measure of network latency	
/	1 / 1 point	
10.		
	nputer has more than one available processor and R is able to take advantage of that, then which of the ng is true when using 'system.time()'?	
	elapsed time is 0	
0	elapsed time may be smaller than user time	
Correct		
	user time is always smaller than elapsed time	
	user time is 0	



