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Week 4 Quiz

10 questions

1 point

1.

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

Week 4 Quiz | Coursera

- 1 set.seed(1)
 2 rpois(5, 2)
- A vector with the numbers 1, 1, 2, 4, 1
- O It is impossible to tell because the result is random
- 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

1 point

2.

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

- O rnorm
- O pnorm
- O dnorm
- O qnorm

1 point

3. When simulating data, why is using the set.se all that apply.	ed() function important? Select
It can be used to specify which rando algorithm R should use, ensuring con	
It ensures that the random numbers generated are within specified boundaries.	
It ensures that the sequence of rando	om numbers is truly random.
It can be used to generate non-unifor	m random numbers.
1 point 4. Which function can be used to evaluate the inverse cumulative distribution for the Paisson distribution?	
function for the Poisson distribution? • ppois	
O qpois	
O rpois	
O dpois	
1 point 5.	
What does the following code do?	
1 set.seed(10) 2 x <- rep(0:1, each = 5) 3 e <- rnorm(10, 0, 20) 4 y <- 0.5 + 2 * x + e	
O Generate random exponentially distributed data	
O Generate data from a Poisson generalized linear model	
O Generate uniformly distributed random data	
O Generate data from a Normal linear model	

1 point

6.

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

- O pbinom
- O qbinom
- O rbinom
- O dbinom

1 point

7.

What aspect of the R runtime does the profiler keep track of when an R expression is evaluated?

- O the working directory
- O the package search list
- O the function call stack
- O the global environment

1 point

8.

Consider the following R code

- 1 library(datasets)
- 2 Rprof()
- 3 fit $<- lm(y \sim x1 + x2)$
- 4 Rprof(NULL)

(Assume that y, x1, and x2 are present in the workspace.) Without running the code, what percentage of the run time is spent in the 'lm' function, based on the 'by.total' method of normalization shown in 'summaryRprof()'?

O It is not possible to tell

O 23%

0

50%

O 100%

1 point

9.

When using 'system.time()', what is the user time?

- O It is the time spent by the CPU waiting for other tasks to finish
- O It is a measure of network latency
- O It is the "wall-clock" time it takes to evaluate an expression
- O It is the time spent by the CPU evaluating an expression

1 point

10.

If a computer has more than one available processor and R is able to take advantage of that, then which of the following is true when using 'system.time()'?

- O user time is always smaller than elapsed time
- O user time is 0
- O elapsed time is 0
- O elapsed time may be smaller than user time

9 questions unanswered

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