**Section 1 Assessment**

**Question 1**

2/2 points (graded)

To find the solutions to an equation of the format *ax*2+*bx*+*c*, use the quadratic equation: *x*=−*b*±*b*2−4*ac*√2*a*.

What are the two solutions to 2*x*2−*x*−4=0 ? Use the quadratic equation. (Report the greater of the two solutions first, using 3 significant digits for both solutions) correct

1.686141 Loading

correct

−1.186141 Loading

You have used 1 of 10 attempts Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

**Question 2**

1/1 point (graded)

Use R to compute log base 4 of 1024. You can use the help function to learn how to use arguments to change the base of the log function.

Submit your answer AS A NUMBER below.

correct

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You have used 4 of 10 attempts Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

Install the **dslabs** package if you have not done so:

install.packages("dslabs")  
  
**Note that any time you get an error that a package is not found, try installing that package.**

The movielens dataset in the **dslabs** package includes data on a variety of movies and their rating by a  
particular user. Load the movielens dataset:

library(dslabs)  
data(movielens)

Begin your exploration of this dataset by looking at the structure of the dataset and variable types.

You have used 2 of 10 attempts Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

**Question 3b**

1/1 point (graded)

How many different variables are in the dataset? correct

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You have used 1 of 10 attempts Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

**Question 3c**

1/1 point (graded)

What is the variable type of title ?

It is a text (txt) variable

It is a chronological (chr) variable

It is a string (str) variable

It is a numeric (num) variable

It is an integer (int) variable

It is a factor (Factor) variable

It is a character (chr) variable

correct

You have used 1 of 2 attempts Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

**Question 3d**

1/1 point (graded)

What is the variable type of genres ?

It is a text (txt) variable

It is a chronological (chr) variable

It is a string (str) variable

It is a numeric (num) variable

It is an integer (int) variable

It is a factor (Factor) variable

It is a character (chr) variable

correct

You have used 1 of 2 attempts Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

**Question 4**

1/1 point (graded)

We already know we can use the levels() function to determine the levels of a factor. A different function, nlevels(), may be used to determine the number of levels of a factor.

Use this function to determine how many levels are in the factor genres in the movielens data frame. correct

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You have used 1 of 10 attempts