

<u>Course</u> > <u>Section 1: R Basics, ...</u> > <u>Section 1 Assessme</u>... > Section 1 Assessme...

## 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:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}.$$

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

1.686

-1.186 **→** 

Submit

You have used 4 of 10 attempts

## ✓ Correct (2/2 points)

## Question 2

1/1 point (graded)

Compute log base 4 of 1024. Use the [help] function to learn how to use arguments to change the base of the [log] function.

Submit your code below.

log(1024, 4)

Correct (1/1 point) 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. Question 3a 1/1 point (graded) How many rows are in the dataset? 100004 100004 You have used 1 of 10 attempts Submit ✓ Correct (1/1 point) Question 3b 1/1 point (graded) How many different variables are in the dataset? 7 7 You have used 1 of 10 attempts Submit

✓ Correct (1/1 point)
Question 3c
1/1 point (graded) What is the variable type of title?
O It is a text (txt) variable
O It is a chronological (chr) variable
O It is a string (str) variable
O It is a numeric (num) variable
O It is an integer (int) variable
O It is a factor (Factor) variable
o It is a character (chr) variable ✔
Submit You have used 1 of 2 attempts
✓ Correct (1/1 point)
Question 3d
1/1 point (graded) What is the variable type of genres ?
O It is a text (txt) variable
It is a chronological (chr) variable
○ It is a string (str) variable

O It is a numeric (num) variable
O It is an integer (int) variable
o It is a factor (Factor) variable ✔
O It is a character (chr) variable
Submit You have used 1 of 2 attempts
✓ Correct (1/1 point)
Question 4
1/1 point (graded) We already know we can use the <code>levels()</code> function to determine the levels of a factor. A different function, <code>nlevels()</code> , may be used to determine the number of levels of a factor.
Use this function to determine how many levels are in the factor <code>genres</code> in the <code>movielens</code> data frame.
901
Submit You have used 1 of 10 attempts
✓ Correct (1/1 point)

© All Rights Reserved