DataCamp: Intro to R

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- Q1 (1 pt.): What type of data is contained in the variable a?

Answer: Character or string

- Q2 (1 pt.): What type of data is contained in the variable b1?

Answer: Numeric

- Q3 (1 pt.): What type of data is contained in the variable b2?

Answer: Character or sting

- Q4 (2 pts.): Explain what happens when you try to add b1 and b2 and why.

Answer: Produce a error: “Error in b1 + b2 : non-numeric argument to binary operator”, this happen because we are try to add a character and a numeric variable, to add one variable to another both have to be numeric.

- Q5 (1 pt.): Are the variables b1 and c1 the same type? Why or why not?

Answer: The variables b1 and c1 are the same type, numeric. The different is that the variable b1 only have one observation, and the variable c1 have four observations.

- Q6 (3 pts.): Explain what happens when you add b1 and c1. Consider both the number of elements in each variable and the data types.

Answer: The variable b1 add to every observation of the variable c1, the result is four observation.

- Q7 (1 pt.): Show the R code you used to create v1.

Answer: v1 <- c(-2:2)

- Q8 (1 pt.): Show the R code you used to create v2.

Answer: v2 <- v1 * 3

- Q9 (1 pt.): Show the R code you used to calculate the sum of elements in v2.

Answer: sum(v2)

- Q10 (1 pt.): Show the code you used to create mat_1.

Answer: mat_1 <- matrix(vec_4, nrow = 3, ncol = 4, byrow = TRUE)

- Q11 (1 pt.): Show the code you used to create mat_2.

Answer: mat_2 <- matrix(vec_4, nrow = 3, ncol = 4, byrow = FALSE)

- Q12 (2 pts.): Show the R code you used to create my_list_1.

Answer: my_list_1 <- list(5.2, "five point two", c(0:4))

- Q13 (1 pt.): Show valid R code that selects the third element of the list.

Answer:

my_list_1["three"]

my_list_1$three

my_list_1[3]

my_list_1[[3]]

Q14 (1 pt.): Show the R code that selects the list element with the name “one”. Note: there are at least two ways to do this!

Answer: my_list_1["one"]

my_list_1[2]

- Q15 (3 pts.): Show the R code that you used to create my_bool_vec.

Answer: my_bool_vec <- my_vec == 3

- Q16 (2 pts.): Show the R code that you used to subset my_vec using my_bool_vec.

Answer: head(my_vec[my_bool_vec])