

Assignment 1.6 – Data Types in R

Write a R script that provides answers to the following questions. If any questions need direct answers, give them in a comment.

1. For the following inputs, list all of the data type(s) that would be appropriate to store data in R. Code the example for each.
 - a. The word squirrel
 - b. The condition TRUE
 - c. The vector `< TRUE, TRUE, FALSE, FALSE, TRUE >`
 - d. The vector `< 0, 0, 1, 0 >`
 - e. The vector `< 1.3, 3.3 >`
 - f. The vector `< 2i, 3 + 3i >`
 - g. The number 8
 - h. The number $3.\bar{6}$
2. For the following functions, what types of data do they accept as inputs and what data types do they return as outputs? Code a working example of each.
 - a. `mean()`
 - b. `sd()`
 - c. `all()`
 - d. `cut()`
 - e. `sort()`
3. Run the function `is.character()` on the coded example for each answer in 1 (give each example its own line). What does the output mean?
4. Use the function `runif()` to produce 1000 random numbers between 0 and 1. How many of these numbers have values greater than 0.5?

Turn in your R script.