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ECO 602

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DataCamp Assignment: R Basics

Q1: What type of data is contained in the variable a?

Character

Q2: What type of data is contained in the variable b1?

Numeric

Q3: What type of data is contained in the variable b2?

Character

Q4: What happens when you add b1 and b2 and why?

An error code appears because I am trying to add a binary operation to text

Q5: Are the variables b1 and c1 of the same type?

They both are numeric class but since the value of c1 is a sequence it is inputted as a vector

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

When b1 (45.6) was added to c1 (0 to 3), the result was b1 added to each of the values in c1. Since both variables are numeric type, they were able to combine but listed in a sequence I believe due to the vector type of c1

Q7: Show the R code you used to create v1.

I used v1 <- c(-2:2)

Q8: Show the R code you used to create v2.

I used v2 <- c(-2:2)\*3

Q9: Show the R code you used to calculate the sum of elements in v2.

I used sum(v2)

Q10: Show the code you used to create mat\_1

I used mat\_1 <- matrix(vec\_4, nrow= 3, byrow= TRUE)

Q11: Show the code you used to create mat\_2

I used mat\_2 <- matrix(vec\_4, nrow= 3, ncol= 4)

Q12: Show the R code you used to create my\_list\_1.

I used my\_list\_1 <- list("two" = 5.2, "one" = "five point two", "three" = c(0:5))

Q13: the R code that would select third element of the list.

I used my\_list\_1[["three"]]

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

I used both ways for this question to see if both ways worked for me. my\_list\_1$"one" and my\_list\_1[["one"]]

Q15: Show the R code that you used to create my\_bool\_vec.

I used my\_bool\_vec <- c(my\_vec == 3)

Q16: Show the R code that you used to subset my\_vec using my\_boolean\_vec.

I used my\_vec[my\_bool\_vec == TRUE]