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Datacamp Assignment

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

A string

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

A number

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

A string

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

You get an error, because b2 is non-numeric

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

No. b1 is a single number, c1 is a series of integers from 0 to 3.

* **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.

R adds the number contained in b1 to each integer contained in c1, and prints each new number.

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

v1 = c(-2:2)

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

v2 = 3\*v1

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

sum(v2)

* **Q10 (1 pt.):** Show the code you used to create mat\_1.

mat\_1 = matrix(vec\_4, byrow = TRUE, nrow = 3, ncol = 4)

* **Q11 (1 pt.):** Show the code you used to create mat\_2.

mat\_2 = matrix(vec\_4, nrow = 3, ncol = 4)

* **Q12 (2 pts.):** Show the R code you used to create my\_list\_1.

my\_list\_1 = list(5.2, "five point two", c(0:5))

names(my\_list\_1) <- c("two", "one", "three")

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

print(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!

print(my\_list\_1["one"])

* **Q15 (3 pts.):** Show the R code that you used to create my\_bool\_vec.

my\_bool\_vec = my\_vec == 3

* **Q16 (2 pts.):** Show the R code that you used to subset my\_vec using my\_bool\_vec.

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