Data Camp: Intro to R Jackie Stephens

Due 9/25/22

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

A character/string of text is the data contained in variable a.

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

Numerical data is contained in the variable b1.

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

A character/string of text is the data contained in variable a.

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

"Error in b1 + b2 : non-numeric argument to binary operator" This happens because variable b1 is a number and b2 is a string of text = not the same type of data.

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

Yes, they are the same type = both numerical.

**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.

Both are numerical variables, however c1 is in the form of a vector. So when you add them together you get the single numerical vvalue of b1 to the sequence of integers:

> b1+c1

[1] 45.6 46.6 47.6 48.6

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, nrow = 3, ncol = 4, byrow = TRUE) Q11 (1 pt.): Show the code you used to create mat\_2. 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. v5 = c(0:5)my\_list\_1 = list(5.2, "five point two", v5) Q13 (1 pt.): Show valid R code that selects the third element of the list. 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! 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]