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Worked with Jessica Bonin

DataCamp Intro to R

Section 1 Variables

1. What type of data is contained in the variable a
    Character

2. What type of data is contained in the variable b1
    Numeric

3. What type of data is contained in the variable b2
    Character

4. What happens when you add b1 and b2 and why?
    R give you an error because b1 is numeric data and b2 is text so you cannot add them together.

5. Are the variables b1 and c1 of the same type?
    No, b1 is numeric but c1 is an integer data type

6. Explain what happens when you add b1 and c1. Consider both the number of elements in each variable and the data types.
    It takes the numerical 45.6 from b1 and adds it to each integer in the sequence of c1 so you get 45.6, 46.6, 47.6, and 48.6 as a result.

7. Show the R code you used to create v1
    v1 = -2:2

8. Show the R code you used to create v2
    v2 = v1 * 3

9. Show the R code you used to calculate the sum of elements in v2
    sum(v2)

10. Show the code you used to create mat_1
    vec4 = 1:12
    mat_1 = matrix(vec4, nrow = 3, ncol = 4, byrow = TRUE)

11. Show the code you used to create mat_2
    mat_2 = matrix(vec4, nrow = 3, ncol = 4, byrow = FALSE)

12. Show the R code you used to create my_list_1

```
my_list_1 = list("two" = 5.2, "one" = "five point two", "three" = 0:5)
```

13. Show the R code that would select the third element of the list

```
my_list_1[[3]]
```

14. Show the R code that selects the list element with the name "one".

```
my_list_1$one
```

15. Show the R code that you used to create my_bool_vec

```
my_bool_vec = my_vec == 3
```

16. Show the R code that you used to subset my_vec using my_boolean_vec

```
my_vec[my_bool_vec]
```