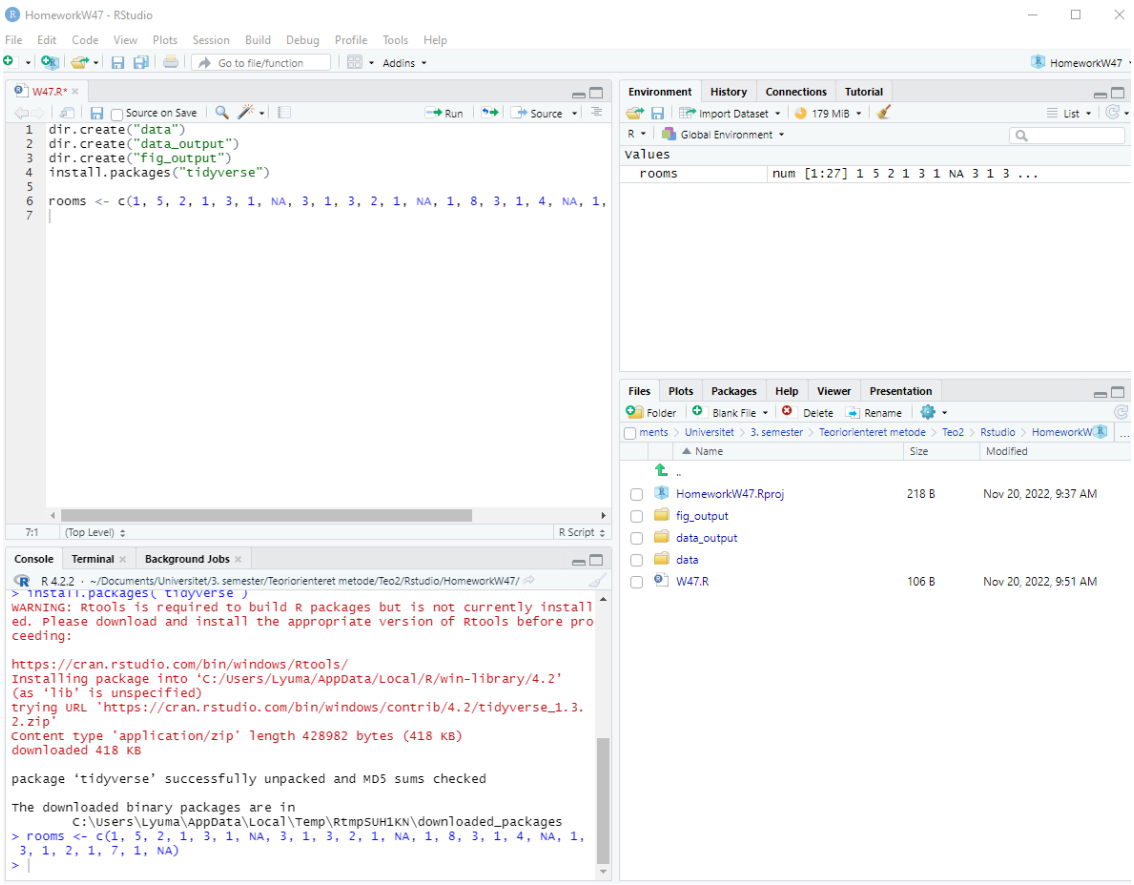
W46: Start with R

1) Use R to figure out how many elements in the vector below are greater than 2.
rooms <- c(1, 5, 2, 1, 3, 1, NA, 3, 1, 3, 2, 1, NA, 1, 8, 3, 1, 4, NA, 1, 3, 1, 2, 1, 7, 1, NA)

- To complete this assignment we need to use the c() function. This is called a vector and can be used to assign a series of values.
- In the R script window we type:

rooms <- c(1, 5, 2, 1, 3, 1, NA, 3, 1, 3, 2, 1, NA, 1, 8, 3, 1, 4, NA, 1, 3, 1, 2, 1, 7, 1, NA)

- and hit ctrl+enter.
- In our environment tab in the top right corner there is now a value for rooms.

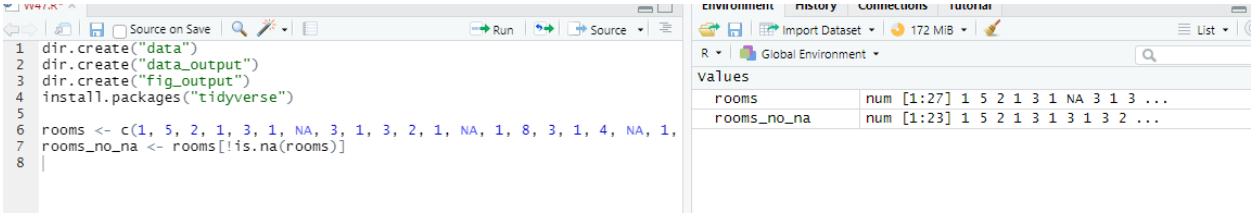


- However, Vectors can be of only one data type. As such the NA will not be counted as a number.

- To change this we type:

rooms_no_na <- rooms[!is.na(rooms)]

- This command removes every instance of NA.



- We now have a new value: rooms_no_na

- Then to figure out how many elements is above 2 we type the command:

rooms_above_2 <- rooms_no_na[rooms_no_na > 2]

and then length(rooms_above_2)

```
> rooms_above_2 <- rooms_no_na[rooms_no_na > 2]
> length(rooms_above_2)
[1] 9
>
```

The answer to the question is there are **9 rooms** above 2.

2) Which function tells you the type **of data the 'rooms' vector above contains?**

- The function is called class( ).

- If we type the command class(rooms_above_2) we get:

```
> class(rooms_above_2)
[1] "numeric"
>
```

- Rooms are numeric.

3) What is the result of running the median() function on the above 'rooms' vector?

- If we run function median(rooms_above_2) we get:

```
> median(rooms_above_2)
[1] 3
```

- The result is 3.

- https://github.com/Digital-Methods-HASS/au692692_wohlin_henriette/blob/main/Homework/W46/Homework_W46_part1
- In this link you can see my repository on Github for this week's homework.

4) Submit the following image to Github: Inside your R Project (.Rproj), install the 'tidyverse' package and use the download.file() and read_csv() function to read the SAFI_clean.csv dataset into your R project as 'interviews' digital object (see instructions in https://datacarpentry.org/r-socialsci/setup.html and 'Starting with Data' section).

Take a screenshot of your RStudio interface showing
a) the line of code you used to create the object,
b) the 'interviews' object
downin the Environment, and
c) the file structure of your R project **in the bottom right "Files" pane.**
Save the screenshot as an image and put it in
your AUID_lastname_firstname **repository inside our Github organisation (github.com/Digital-Methods-HASS) or equivalent. Place** here **the URL leading to the screenshot in your repository.**

https://github.com/Digital-Methods-HASS/au692692_wohlin_henriette/blob/main/Homework/W46/W46.JPG

- In the link above you can see my assignment.