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.

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* 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.

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Automatisk genereret beskrivelse

* 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)

Et billede, der indeholder tekst

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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:



* 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:



* 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.