**Instructions:** For this assignment, you need to answer a couple questions with code and then take a particular screenshot of your working environment.

You can submit the solutions including the URL to the screenshot typed up in a doc/pdf to Brightspace OR upload the document with solutions and the screenshot to your repository on Github and submit here (to Brightspace) only your Github URL (make sure your HW files are immediately findable there).

***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)

The code used:

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)

rooms\_no\_na <- rooms[!is.na(rooms)] #*the ! means that I exclude the all the places that na (no answer) shows up*

rooms\_above\_2 <- rooms\_no\_na[rooms\_no\_na >2] #*when I have excluded na I can then find where the number is greater than 2*

length(rooms\_above\_2) #*this shows the number of rooms and that number is 9*

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

Class(rooms) it tells me that is numeric

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

If it is just “rooms” I get NA, as R can’t find the median as long as NA is still included in “rooms” but if I but in the” rooms\_no\_na” I get “2”

Code used:

median(rooms)

median(rooms\_no\_na)

**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 in 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.

Link to Github: <https://raw.githubusercontent.com/Digital-Methods-HASS/AU690459_Frederiksen_Sofie/main/R_github.png>

**5) Challenge: Tidy up your Danish monarchs dataset (you created last week) sufficiently so that you can load it into R as a tibble using the read\_csv() and calculate the mean() and median() durat<ion of rule over time.**

I have to remove æøå otherwise R wont work with me

data\_table <- read\_csv2("data/kongerækken.csv") # I name the data from kongerækken: data\_table

head(data\_table) #this shows me how the data look in the console

mean(data\_table[[7]], na.rm=TRUE) # this shows the average and removes NA all in one as it doesn’t give me the average as long as there is NA in the column.

median(data\_table[[7]], na.rm = TRUE) # this shows the median and removes NA all in one as it doesn’t give me the average as long as there is NA in the column.

My answer might be different from others as I also counted the two interregnums, and the [[7]] after the data\_table is because the duration of the regents’ reign is in column 7.

I had some trouble with this as R wouldn’t recognize the number of years as numbers, turns out that in the excel spreadsheet I hadn’t removed one of the places it couldn’t calculate the duration of the reign (due to queen Magrethe not being dead) and I had forgotten to put in a NA instead.