Assignment W46: Start with R

**Question 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)**

Firstly, we need to create a new vector with the missing data (NA’s) removed. Insert the following vector to RStudio and run:

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)]

Lastly, run the following functions to calculate how many households in the vector have more than 2 rooms:

rooms\_above\_2 <- rooms\_no\_na[rooms\_no\_na > 2]

length(rooms\_above\_2)

This will give the following output:

[1] 9

This means that there are 9 elements in the vector that are greater than 2.

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

Insert the following function to see which type of data the ‘rooms’ vector contains:

typeof(rooms)

This will give the following output:

[1] "double"

‘Double’ means the same as ‘numeric’, meaning that the vector has a numeric type of data

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

Use the function median() as below to calculate the median of the rooms vector:

median(rooms, na.rm = TRUE)

This will give the following output:

[1] 2

**Question 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.**

URL:

<https://github.com/Digital-Methods-HASS/au601065_hornung_anne/blob/main/start_w_R_question_3.png>