Questions:

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

ANSWER:

```
> rooms
 [1]  1  5  2  3  1 NA  3  1  3  2 NA  1  8  3  1  4 NA  1  3  1  2  1  7  1
[25] NA  4  3  1  7  2  1 NA  1  1  3
> rooms>2
 [1] FALSE  TRUE FALSE  TRUE FALSE    NA  TRUE FALSE  TRUE FALSE    NA FALSE
[13]  TRUE  TRUE FALSE  TRUE    NA FALSE  TRUE FALSE FALSE FALSE  TRUE FALSE
[25]    NA  TRUE  TRUE FALSE  TRUE FALSE FALSE    NA FALSE FALSE  TRUE
> rooms[rooms>2]
 [1]  5  3 NA  3  3 NA  8  3  4 NA  3  7 NA  4  3  7 NA  3
> rooms_no_na <- rooms
> is.na(rooms)
 [1] FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE  TRUE FALSE
[13] FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE
[25]  TRUE FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE
> !is.na(rooms)
 [1]  TRUE  TRUE  TRUE  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE FALSE  TRUE
[13]  TRUE  TRUE  TRUE  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE
[25] FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE  TRUE  TRUE  TRUE
> rooms[!is.na(rooms)]
 [1] 1 5 2 3 1 3 1 3 2 1 8 3 1 4 1 3 1 2 1 7 1 4 3 1 7 2 1 1 1 3
> rooms_no_na <- rooms[!is.na(rooms)]
> rooms_no_na
 [1] 1 5 2 3 1 3 1 3 2 1 8 3 1 4 1 3 1 2 1 7 1 4 3 1 7 2 1 1 1 3
> rooms_no_na>2
 [1] FALSE  TRUE FALSE  TRUE FALSE  TRUE FALSE  TRUE FALSE FALSE  TRUE  TRUE
```

[13] FALSE TRUE FALSE TRUE FALSE FALSE FALSE TRUE FALSE TRUE TRUE FALSE

[25] TRUE FALSE FALSE FALSE FALSE TRUE

> rooms_no_na>2

 [1] FALSE TRUE FALSE TRUE FALSE TRUE FALSE TRUE FALSE FALSE TRUE TRUE

[13] FALSE TRUE FALSE TRUE FALSE FALSE FALSE TRUE FALSE TRUE TRUE FALSE

[25] TRUE FALSE FALSE FALSE FALSE TRUE

> rooms_no_na[rooms_no_na>2]

 [1] 5 3 3 3 8 3 4 3 7 4 3 7 3

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

ANSWER:

> class(rooms)

[1] "numeric"

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

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

> rooms

 [1] 1 5 2 3 1 NA 3 1 3 2 NA 1 8 3 1 4 NA 1 3 1 2 1 7 1

[25] NA 4 3 1 7 2 1 NA 1 1 3

> max(rooms)

[1] NA

> max(rooms, na.rm = TRUE)

[1] 8

> mean(rooms, na.rm = TRUE)

[1] 2.566667

4) In order to submit a screenshot of RStudio, do the following first: 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 'interviews', incl. the output in the console,

The code we used to create the object ‘interviews’ is the following: interviews <- read_csv("data/SAFI_clean.csv")

b) the 'interviews' object in the "Environment" top right pane, and

c) the file structure of your R project in the bottom right "Files" pane.

Save the screenshot as a .png image and put it in your AUID_lastname_firstname repository inside the class Github organisation (www.github.com/Digital-Methods-HASS) or equivalent. Place here the URL leading to the screenshot in your repository.