W4: Start with R

Exercise 1:

Use R to figure out how many elements in the vector below are greater than 2 . (You need to filter out the NAs first) rooms <- c(1, 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)

```
#create object
rooms <- c(1, 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)

#remove na's
rooms_clean <- na.omit(rooms)

#count how many elements are greater than 2
sum(rooms_clean > 2)
```

```
## [1] 8
```

Exercise 2:

What is the result of running median() function on the above 'rooms' vector? (again, best remove the NAs)

```
#apply median function
median(rooms_clean)
```

```
## [1] 1.5
```

The median() function on the "rooms" vector (or in my case rooms_clean, which has no NA's) gives 1.5.

Exercise 3:

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 script you used to create the object, b) the 'interviews' object in the Environment and the c) 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). Place here the URL leading to the screenshot in your repository.

```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.0 --
```

```
## v ggplot2 3.3.2      v purrr   0.3.4
## v tibble  3.0.4      v dplyr   1.0.2
## v tidyr   1.1.2      v stringr 1.4.0
## v readr   1.4.0      v forcats 0.5.0


## -- Conflicts ----------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```r
setwd("~/Documents/University/5SEMESTER/CULTDATA/RStudio/au601190_dwenger_nicole")

download.file("https://ndownloader.figshare.com/files/11492171",
              "data/SAFI_clean.csv", mode = "wb")

interviews <- read_csv("data/SAFI_clean.csv", na = "NULL")
```

```
##
## -- Column specification ---------------------------------------------------------
## cols(
##   key_ID = col_double(),
##   village = col_character(),
##   interview_date = col_datetime(format = ""),
##   no_membrs = col_double(),
##   years_liv = col_double(),
##   respondent_wall_type = col_character(),
##   rooms = col_double(),
##   memb_assoc = col_character(),
##   affect_conflicts = col_character(),
##   liv_count = col_double(),
##   items_owned = col_character(),
##   no_meals = col_double(),
##   months_lack_food = col_character(),
##   instanceID = col_character()
## )
```