

CDS HomeWork 2

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load packages

```
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.3      v purrr   0.3.4
## v tibble  3.0.4      v dplyr   1.0.6
## v tidyr   1.1.3      v stringr 1.4.0
## v readr   1.4.0      v forcats 0.5.1

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

1) Use R to figure out how many elements in the vector below are greater than 2.

```
# Define the vector
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 and take the sum of the statement
sum(na.omit(rooms) > 2)
```

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

As seen on the output there are **8** values greater than 2 (excluding the NA's)

2) What type of data is in the 'rooms' vector?

This can be answered using the class-function

```
class(rooms)
```

```
## [1] "numeric"
```

The answer is **numeric**

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

Let’s try it out

```
median(rooms)
```

```
## [1] NA
```

We get an NA. This is because the NA’s could conceivably be any value, so R cannot possibly say what the median is.

4) Submit an 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 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 AUDI_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.

The repo can be found [here](#)

```
pacman::p_load(tidyverse)
interviews <- read_csv("../data/SAFI_clean.csv")
```

```
##
## -- 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()
## )
```