

# Exercise 1

## How to solve problems in R? - A suggestion...

Do I know what to do?

- Yes:  
→ *Go for it...*
- Maybe:  
→ *Try...*
- No:  
→ *Look for help in R (?function\_name, e.g. ?mean)*  
→ *Ask Google (e.g. 'r how to calculate mean of data frame column')*  
→ *Look for help on one of the cheat sheets*  
→ *Look for hints on the last page of the exercise sheet*

### 1. Create vectors

Try to recreate the following vectors:

```
vec1
```

```
## [1] 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5
## [15] 8.0 8.5 9.0 9.5 10.0
```

```
vec2
```

```
## [1] 1 1 1 1 4 4 4 4 8 8 8 8 13 13 13 13
```

### 2. Combine vectors

Combine the vectors `canton` and `peak` to `peak_canton`.

```
canton
```

```
## [1] "GR" "TI" "UR" "BE" "VS"
```

```
peak
```

```
## [1] "Piz Bernina"      "Adula Rheinwaldhorn" "Dammastock"
## [4] "Finsteraarhorn"  "Dufourspitze"
```

```
peak_canton
```

```
## [1] "Piz Bernina_GR"      "Adula Rheinwaldhorn_TI"
## [3] "Dammastock_UR"      "Finsteraarhorn_BE"
## [5] "Dufourspitze_VS"
```

### 3. Load and save a .csv-file

- i) Load the file `data_L1.csv` from the folder `01_Data` and give it a name (e.g. `my_table`)
- ii) Save the object `my_table` as `my_table.csv` to the folder `01_Data`

## Hints

### 1. Create vectors

Have a look at the functions `seq` and `rep`.  
You can see the help files by typing `?sep` and `?rep`.

### 2. Combine vectors

Have a look at the function `paste` (`?paste`).  
Check the argument `sep = " "` inside the function `paste`.

### 3. Load and save a .csv-file

Check the R-file `03_Load_and_save_data.R` in the `03_Scripts` folder or check the functions `read.csv` and `write.csv`.