Exercises with `for` and `while` instructions

Objectives

- Recap previous session
- Exercises
- Homework exercises
- Guidelines

Recap previous session

- What is a `for` instruction? How does it help?
- What is the difference between a `for` and a `while`?
- Can you substitute a `for` loop with a `while` loop?

Exercises

- Note: each exercises will be first solved using the `for` instruction and then using the `while` instruction such that you will get familiar with both of them

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1. Given n natural numbers, create a JAVA program which will compute the root mean square (media patratica) of them.

   - Note: the formula for this is described in the image below:

$$\sqrt{\frac{x_1^2 + x_2^2 + \ldots + x_n^2}{n}}$$

   - Sample Input:
   - Sample Output:
   - Solution:
        1. `while`:

Homework exercises

Guidelines

- Try to redo each of the class exercises, both with while and for instructions. Then, compare your solution with the one provided in our session
    - Do not forget that there are multiple solution to a problem, thus, if your solution differ than the one described, it is NOT wrong.