

## Exercises

Feel free to send me your answers either through github (do you know how to make a pull request?) or on social media if you want to!

- 1) Define a function that takes one integer argument, computes the square root of that integer, and then prints it to the console.

Hint #1: Google “c square root” – you should learn to google efficiently as soon as possible!

Hint #2: there is a library called `<math.h>` that defines a function called “`sqrt(x)`” for this purpose

Hint #3: if you haven’t stumbled across this already, here is an example -

[https://www.tutorialspoint.com/c\\_standard\\_library/c\\_function\\_sqrt.htm](https://www.tutorialspoint.com/c_standard_library/c_function_sqrt.htm)

- 2) Define a function that takes two integer arguments and returns the absolute of their difference, i.e.  $|a - b|$ .

Hint #1: Google “c absolute”

Hint #2: Here is an example -

[https://www.tutorialspoint.com/c\\_standard\\_library/c\\_function\\_abs.htm](https://www.tutorialspoint.com/c_standard_library/c_function_abs.htm)

- 3) For the function of 2), call the function 3 times (in main). Then, modify the program so that it counts how many times this function has been called (i.e., the machine will be the one that does the counting, not you! 😊) and print it to the console.

Hint #1: Remind yourself about global and local variables!

Hooray! You’ve built your first counter! 😊

- 4) Separate the source code of 3) into two files, the header file, and the source file.

Hint #1: Remind yourself about header files!

REMINDER:

Use comments throughout your code, even though the exercises are simple, in order to get acquainted with them!