

# Mandatory assignment 6 – Lesson 11+12

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Hand in assignment 5 on LEARN.

Upload only source files and .pdf files.

All files must include:

- Assign number. Ex: Exercise 7.2 GuessANumber
- Date
- Name and student number

## Lesson 11

In these exercises you'll create library functions in a module.

Hand in all your source files (\*.c and \*.h)

### Exercise 11.1 Factorial module

Split the code for your factorial program from a previous exercise into separate modules.

### Exercise 11.2 Weather data

Mon	Tue	Wed	Thu	Fri	Sat	Sun
18	16	14	13	14	17	17

The table above contains temperature measurements for week 42 in Denmark. Source: dmi.dk.

Create a module with functions to calculate mean and median temperature for week 42.

As an extra feature you can add a function to compute the standard deviation, but that is not mandatory.

Hint: Store the data in an array of integers.

Note: Library functions should never produce output. Instead results should be passed back to the caller of the function.

OBS: You can check your results online at:

<https://www.calculator.net/standard-deviation-calculator.html>