

# Programming Languages 1

## Lesson 8

2<sup>nd</sup> Test: 18. May (for the Monday groups)

2<sup>nd</sup> Test: 22. May (for the Friday group)

(Retake on the first week of the exam period)

### Exercises:

1. Write a C program that writes the multiplication table (from 1 to 10) to a file named `mult.txt`.
  1. Learn the basics of files in C (*FILE pointer*, *fopen()*, *fclose()*, *fscanf()*, *fprintf()*)
  2. Write the program.
2. Write a C program that reads a given number of integer values from a file (`in.c`) and prints out the average of them to the screen. The first line of the file is the number of values, and after that there is one value in each line.
  1. Open the file.
  2. Read the number of values
  3. Read the values and calculate the sum of them.
  4. Express the average from the sum and the number of values.
  5. Close the file.

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