



## UFAZ - Bachelor of Computer Science

### System Programming

### PW03 : Operations on Files

For each exercise, we expect the student to write a program, compile it and run it without errors of several examples. Test sets and comments are as important as the code itself.

#### Exercise 1

Write a program which copies a file `foo` into a file `bar` (to be created if it does not exist), using only system calls. You do not need to ensure the permissions of the created file are the same as the initial one.

#### Exercise 2

Write a function `getchar` which returns the character read from the standard input `stdin` or the constant EOF at the end of the file. What can be the numerical value of the constant EOF ?

#### Exercise 3

Write a buffered version of `getchar`. To achieve that, the program must keep a buffer in memory. If the buffer is empty when calling `getchar`, the buffer should be filled and its first byte should be returned. If the buffer already has bytes, your function `getchar` should return the next byte.