

# Text of exercise #1

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## Laboratory #2 – System and device programming – A.Y. 2018-19

Implement a concurrent program in C language, using Pthreads, which creates two client threads, then it acts as a server.

A client thread loops reading the next number from the binary file (fv1.b and fv2.b, respectively), and storing it in a global variable g. Then, it performs a signal on a semaphore to indicate to the server that the variable is ready, and it waits on a semaphore a signal from the server indicating that the number has been processed (simply multiplied by 3), finally, it prints the result and its identifier.

The server loops waiting the signal of the clients, doing the multiplication, storing the results on the same global variable g, and signaling to the client that the string is ready to be printed.

The main thread waits the end on the threads and prints the total number of served requests.