

Text of exercise #2

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Laboratory #3 – System and device programming – A.Y. 2018-19

Write a C program using Pthreads that implements the producer and consumer protocol, where the producer thread produces and puts on a shared buffer 10000 integer numbers (from 0 to 9999), and the consumer thread gets and prints the received numbers (see the example posted in the course site).

You must solve the problem implementing the semaphore functions:

`sema_init`, `sema_wait`, `sema_post`

using conditions. You cannot use standard semaphores.