[06] Write a new multithreaded program, where each of the M threads

1. generates N (possibly random) numbers, and then
2. adds those N numbers to a global variable (initial value 0)

Addition to the global variable is performed either

1. using a lock (as in previous classes), or
2. using alternating barrier calls, so that threads enter the critical section in round-robin fashion (T1, T2, … TM, T1, T2 … TM, …). Each time a thread enters the critical section, it adds its next X numbers

To validate correctness, each thread prints the value of the global variable before exiting the critical section. Remember to flush the buffer after each print using fflush(stdout).
Time your implementations using clock_gettime, as in previous Labs, and include your comparisons (lock vs barrier for various values of M, and X)as comments in your program.
Collaborate with others, but then sit down & write you solution alone!

ΠΡΟΣΟΧΗ
Ανεβάστε την λύση στο φάκελο Εργασίες/Εργασίες 6 στο ECLASS, π.χ.06_xxxx.c αν ο Αριθμός Μητρώου σας είναι xxxx.

Η προθεσμία **είναι η Δευτέρα 30/11/2020 και ώρα 18:00. Γενικά δεν γίνονται δεκτές εκπρόθεσμες υποβολές.**