**Supermarket Inventory (with 1000 products)**

The global mutex is protecting the sale operation to avoid multiple threads changing the quantity of the same product in order to avoid deadlocks.

Execution time:

-5 threads: ~0.098 seconds

-10 threads: ~0.098 seconds

-100 threads:~0.107 seconds

-1000 threads:~0.177 seconds

=> best performance is around 5 to 10 threads