std::atomic<>

- Ensure "tear free" & synchronised manipulation of shared data
- May use traditional locks if data-type cannot be manipulated atomically in hardware.
 Always check std::atomic<>::is_always_lock_free!
- Only a subset of manipulations are supported:
 - Store
 - Load
 - Atomic addition/subtraction
 - exchange/compare-exchange
- More info here: https://herbsutter.com/2013/02/11/atomic-weapons-the-c-memory-model-and-modern-hardware/