

Quiz 1

- Show that the ABD algorithm executed by one writer and **multiple readers** implements a regular but not atomic register
- Turn the algorithm into an atomic 1WNR one
- An atomic NWNR?

Quiz 2

- For a **fault-free** system, design a **read-optimized** quorum system:
 - ✓ A read operation involves a single replica
- For a t -resilient system, design a quorum system ensuring a stronger property
 - ✓ $\forall W \in W_p, \forall R \in R_p: W \cap R$ contains at least one correct process

Quiz 3

In a read-write shared memory model:

- Show that **Lattice Agreement (LA)** is equivalent to one-shot **atomic snapshot (1AS)**
 - ✓ Find the matching lattice and propose two-way wait-free transformations
 - $1AS \Leftrightarrow LA$

Quiz 4

In a read-write shared memory model:

- Show that **Generalized Lattice Agreement (GLA)** is equivalent to (long-lived) **atomic snapshot (AS)**
 - ✓ Find the matching lattice and propose two-way wait-free transformations
 - $AS \Leftrightarrow GLA$