1 Replicated Read-Write Register

Algorithm 7.2 works only for a single reader and a single writer.

a) What is the problem with two concurrent writers (assuming both start with the same value $\tau$)? Can it be fixed by assuming they use properly synchronized access to a shared $\tau$?

b) Show a problem that may occur with two concurrent readers.
   (Hint: consider a parallel write operation)

c) Devise an algorithm that prevents the problem of $m > 1$ concurrent readers.
   (Hint: introduce $O(m^2)$ additional replicated single-reader single-writer objects.)