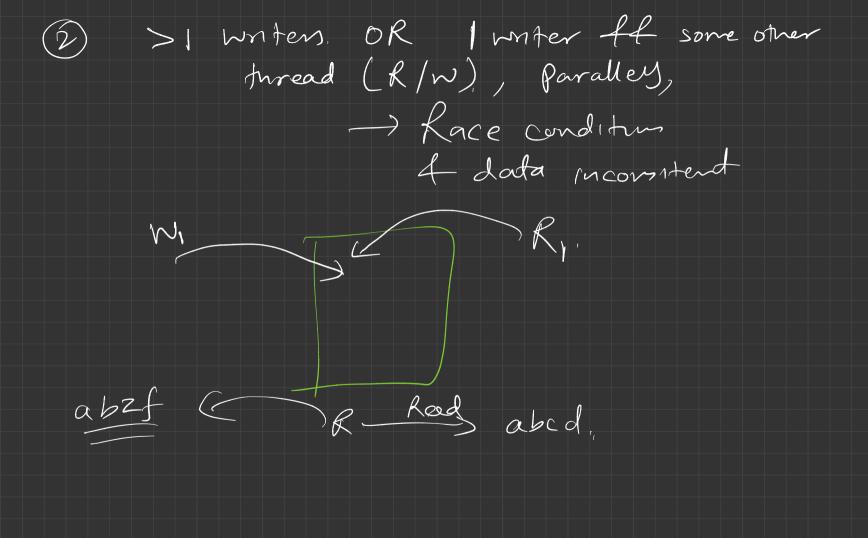


Lec-19

Reader unter problem

- n Reader thread -> Read.
- 1 writer threads write update
- 1) if >1 Roaden ove reading

 No 188me



Sema phons soln to R-N pooblers 1) muter -> Binary semaphore

- to ensure muthal ensuling, when

read court (rc) is updated. - No. two threeds modify R.C at some time. 2) wrt -> Binon semaphore - Common for both reader writer (3) read cont (rc) -) integer 203, tracks how many readers are reading in Cis

Writer Solm dos wait (wrt); Il do unte operation. Signal (wrt); 3 while (true);

Reader solm wait (mutex); Il to mutex readcont variable 8C++; if (8C == 1) wait (wrt); // ensures no writer can enter if There is signal (muten); 11 C.S: Reader is reading wait (muter) rc --; Il a reader leaves if (rc == 0) 11 vo reader is left incs signal (wrt); 11 writer can enter signal (morten); // reader leaves 3 while (1)

