**FSM:**

1. Send start and read done from each block
2. Send location to write in (No. of loop)
3. Check if there’s zero in main diagonal to reduce logic.
4. send load after each loop to Q\_mat and send start to start comp.
5. send read signal to Q\_mat , R\_inv to read word by word.
6. Q\_mat 🡪 rst load start read. Out(done,finish);