PROGRAMMING ASSIGNMENT
Assignment 2 - Conventions

2 6 // 2=round robin, 6 trans
//DO T0
U 0 w(x,1) w(y,2) w(z,3) w(u,4) w(v,5) c0; // Updater
//START ROUND ROBIN HERE
U 1 a0=r(x) w(y, a0) c1; // one letter per trans. (e.g., ‘a’)
R 2 b0=r(x) b1=r(y) b2=r(z) b3=r(v) c2; //Read only
U 3 c0=r(v) c1=r(y) w(u, c0) c2;
R 4 d0=r(x) d1=r(u) d2=r(v) d3=r(y) c4; // Transaction 4
U 5 e0=r(z) w(y, e0) c5;
Read is done into a local variable, e.g., \( c_1 = r(x) \).
Write may be of an integer, e.g., \( w(y, 2) \).
Write may be the value of a local variable, e.g., \( w(u, c_0) \).

How are aborts of U transactions handled?
Perform reverse-actions, may be generated during forward phase, simply record the value prior to updating. Run in reverse order.
Be Clear on...

• How many replicas exist at each point in time
• Simulate a disk, be clear as to which operations require a disk access
• Think of a good scheme for assigning timestamps upon commit without accessing the disk
• Extra credit (still 100 is max) for garbage collection