b1;

Transaction 1 has begun and it has been entered in the transaction table with it's state as Active and timestamp as 1.

r1(Y);

Transaction 1 is Active so entry for data item Y has been made in the lock table and transaction 1 has acquired Read Lock on it.

w1(Y);

For the data item Y and transaction ID 1 lock has been upgraded to Write Lock.

r1(Z);

Transaction 1 is Active so entry for data item Z has been made in the lock table and transaction 1 has acquired Read Lock on it.

b2;

Transaction 2 has begun and it has been entered in the transaction table with it's state as Active and timestamp as 2.

r2(Y);

Transaction 2 has been blocked and Read operation Y has been added to the waiting operation queue in the transaction table and transaction Id 2 has been added to the waiting list queue in the lock table.

b3;

Transaction 3 has begun and it has been entered in the transaction table with it's state as Active and timestamp as 3.

r3(Z);

Transaction 3 has been appended in the read transaction id list for item Z. That is, it has also acquired Read Lock on Z.

w1(Z);

For the data item Z and transaction ID 1 lock has been upgraded to Write Lock.

w2(Y);

Transaction 2 is in blocked state Write operation on dataitem Y has been added to the waiting operation queue of transaction table and the transactio ID2 has been added to the waiting list queue of lock table.

r2(X);

Transaction 2 is in blocked state Read operation on dataitem X has been added to the waiting operation queue of transaction table and the transactio ID2 has been added to the waiting list queue of lock table.

e1;

Transaction 1 has released write lock on Y

Transaction 2 has been changed from Block to Active

Running its waiting operations

Transaction 2 has acquired Read Lock on data item Y

For the data item Y and transaction ID 2 lock has been upgraded to Write Lock.

Transaction 2 is Active so entry for data item X has been made in the lock table and transaction 2 has acquired Read Lock on it.

Transaction 1 has released read lock on Z

Releasing locks aquired by transaction 1

w3(Z);

Transaction 3 is Active so entry for data item Z has been made in the lock table and transaction 3 has acquired Write Lock on it.

e3;

Transaction 3 has released write lock on Z