

《数据库概论》第三次课后作业

题目：

1. The following is a sequence of undo/redo-log records written by two transactions

T and U:

<START U>

<U, A, 10, 11>

<START T>

<T, B, 20, 21>

<U, C, 30, 31>

<T, D, 40, 41>

<COMMIT T>

<U, E, 50, 51>

<COMMIT U>

Describe the action of the recovery manager, including changes to both disk and the log, if there is a crash and the last log record to appear on disk is:

(a) <START T>

(b) <COMMIT T>

(c) <U, E, 50, 51>

(d) <COMMIT U>

2. 请考虑下面两个事务：

T1: read(A); read(B); if A = 0 then B := B + 1; write B;	T2: read(B); read(A); if B = 0 then A := A + 1; write A.
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请给事务 T1 与 T2 增加封锁和解锁指令，使它们遵从两阶段封锁协议。
这两个事务的执行会导致死锁吗？