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CS 440 Database Management Systems

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**Assignment 5**

**Problem 1**

|  |  |  |  |
| --- | --- | --- | --- |
| Order | Transaction | Node | Lock |
| 1 | T1:R(t1) | DB | IS |
| 2 |  | R1 | IS |
| 3 |  | t1 | S |
| 4 | T2:W(t2) | DB | IX |
| 5 |  | R1 | IX |
| 6 |  | t2 | X |
| 7  8 | T2:R(t3) | R2  t3 | IS  S |
| Unlock T2 |  |  |  |
| 9  10 | T1:W(t4) | DB  R2 | IX  IX |
| 11 |  | t4 | X |
| Unlock T1 |  |  |  |

**Problem 2**

T1 🡪 Degree 0

T2 🡪 Degree 3