Second approach: Timestamp Ordering

- Assign each transaction an id
- Transaction id determines its position in serialization order
- Ensure that for a transaction T, both are true:
 - 1. T's write to object O allowed only if transactions that have read or written O had lower ids than T.
 - 2. T's read to object O is allowed only if O was last written by a transaction with a lower id than T.
- Implemented by maintaining read and write timestamps for the object
- If rule violated, abort!
 - Can we do better?