Event Ordering and Mutual Exclusion in Distributed System

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- 1. Does the converse condition of Clock Condition hold? Describe briefly why or why not.
- 2. (a). In Lamport's distributed mutual exclusion algorithm, condition [L1] for determining if a process should be granted resource can hold concurrently at several processes. Why then is [L1] needed to guarantee mutual exclusion?
 - (b). Prove by contradiction that Lamport's distributed mutual exclusion algorithm is fair. In other words, prove that the requests for the resource are executed following the total ordering.