Non Token Based

- a site communicates with set of other sites to arbitrale who should execute the CS next.
- uses timestamps to order requests for the CS 2 to resolve conflicts between simultaneous requests for the cs.
- Logical clocks are maintained & updated according to Lampart's scheme.

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- Every site keeps a queue, request-queue; which contains mutual exclusion requests ordered by their timestamps.
- Algo requires messages to be delivered in the FIFO order between every pair of sites.

- Requesting the Critical Section (CS)

 1. When a site si wants to enter CS, it sends a REQUEST (ts:, i) message to all the sites in its request set hi | 1 places the request on request-queue: I Timestamp of the request.
- 2. When a site Sj receives the REQUEST (ts;,i) message from sête Si, it returns a limestamper REPLY message to Si a places site Si's request on request-queue j.

Executing the Critical Section
Site Si enters the CS when 2 conditions hold:

- a) Si has received a message with timestamp alarger than (ts; i) from all other sites.
- b) Si's request is at the top of request-queue;

Releasing the CS

- 3. Site Si, upon exiting the CS, removes its request from the top of its request queue & sends a timestamped RELEASE message to all sites in its request set.
- 4. When a site Sj receives a RELEASE message from site Si, it removes Si's request from its request queue.

Algo executes cs requests in the increasing order of timestamps.