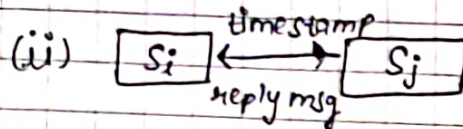
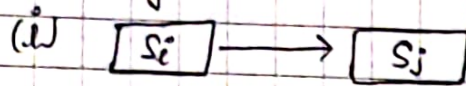


L12

Non-Token based algorithms - LAMPORT Algorithm  
 $R_i = \{s_1, s_2, \dots, s_n\}$ , Every site  $s_i$  having queue.

① Requesting the CS



② Executing CS:

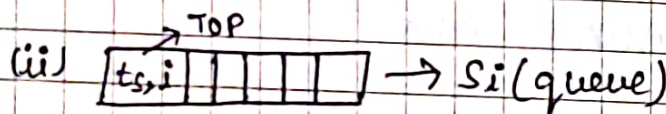
(i)  $(ts, i)$

↓  
smaller

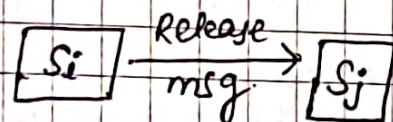
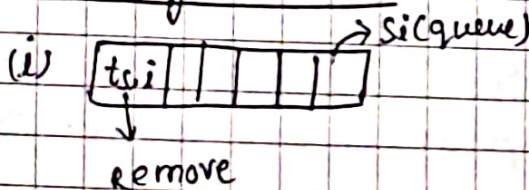
Enter into CS

$(ts, i)$

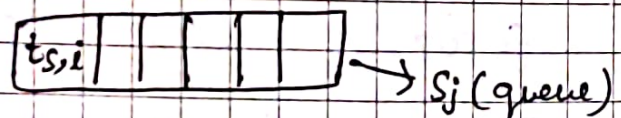
↓  
larger



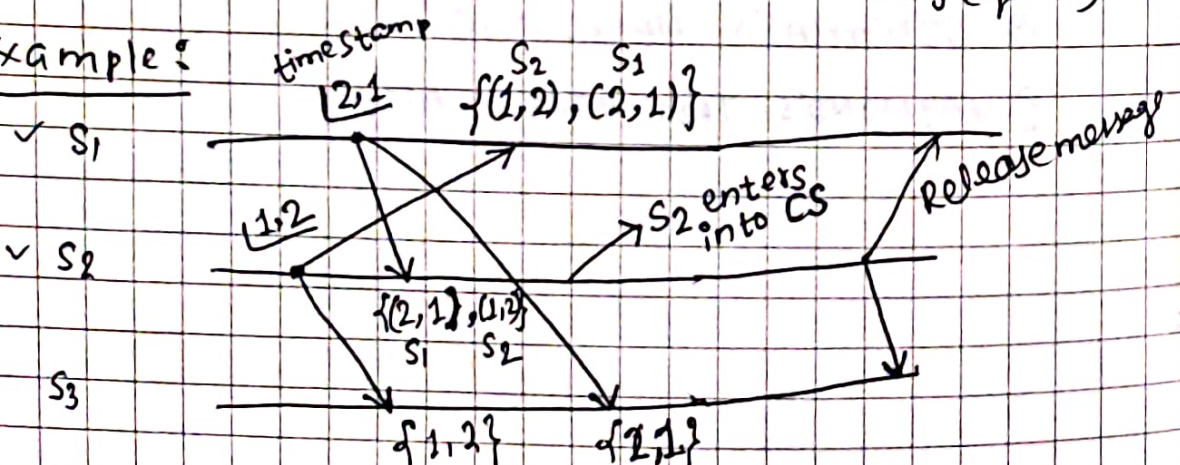
③ Releasing the CS:



(ii) After Release



Example:



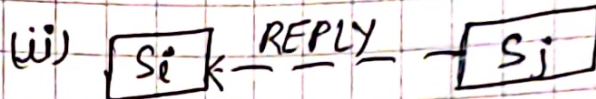
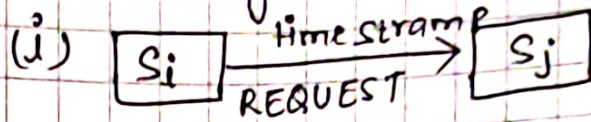


L13

# RICART AGRAWALA ALGO

It is an optimization of Lamport's Algo  $R_i = \{s_1, s_2, \dots, s_n\}$

## ① Requesting the CS



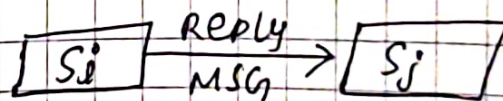
S

→ If  $S_j$  neither Requesting  
→ nor Executing  
→ If  $S_j$  also Requesting.

## ② Executing the CS:

$S_i$  enters the CS after received REPLY message from all sites.

## ③ Releasing the CS:



{ deferred Requests }

Example:

