

Lecture 13

Note Title

10/7/2004

Leader election

Bully algorithm: relies on pre-existing ordering of hosts
(eg, application, IP addr, MAC addr).

Idea: whoever has highest # wins, P initiates leader election

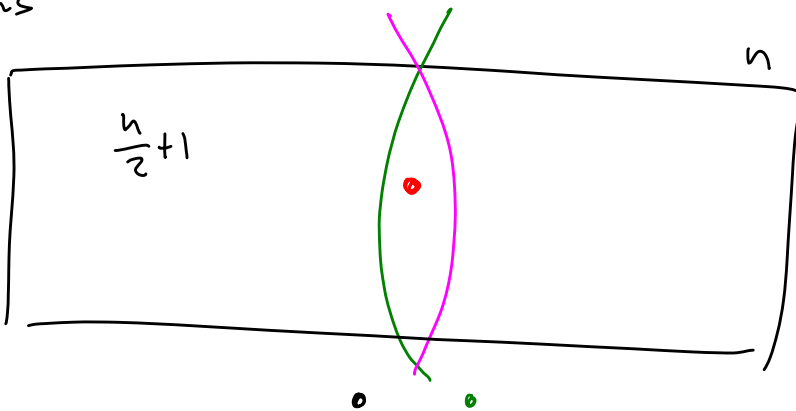
Round: - P sends out ELECTION message to processes w/ higher number
- If nobody responds, P is leader
otherwise P job is done.

Synchronizers: associate round number w/ messages, makes this algorithm asynchronous.

Mutual Exclusion

Only one process should enter the critical section at the same time.

Voting systems



Transactions

ACID

A: Atomic

C: Consistent

I: Isolation

D: Durable

Nested transactions