

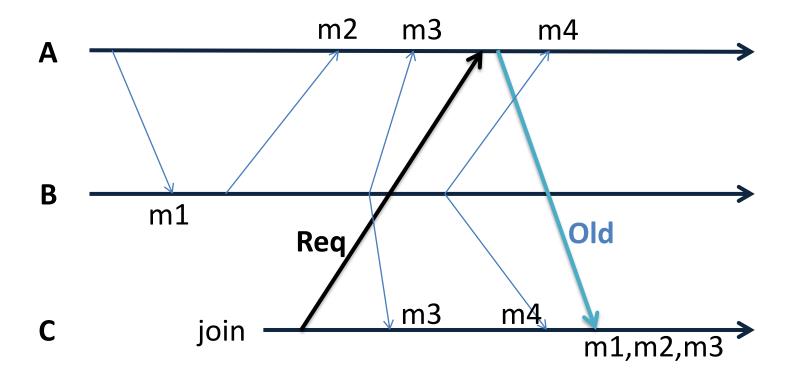
Questions and Answers

Farnaz Moradi

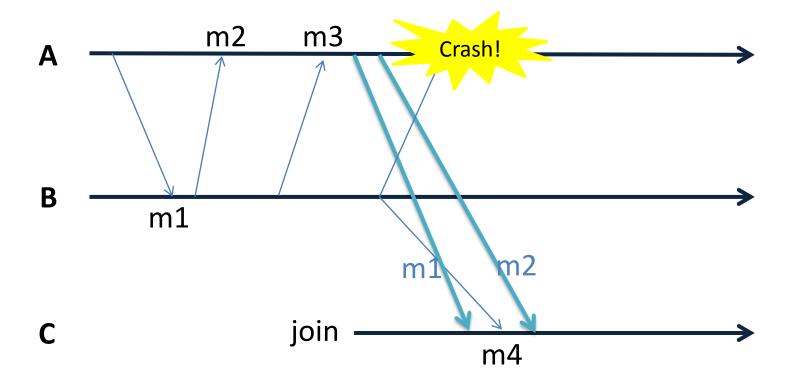
2012

Construct a bulletin board system using Ensemble

LAB 1







What should C deliver?

Implementing a reliable and ordered multicast protocol

LAB 2

Reliable multicast

 Requirements: integrity, validity, agreement *Received* := {}; **R-multicast(g, m)** at process p: **B-multicast**(g, m); On **B-deliver(m)** at process p from process q if($m \notin Received$) Received := Received \cup {m}; if $(q \neq p)$ **B-multicast** (q, m); R-deliver(m); end if

Ordering

FIFO

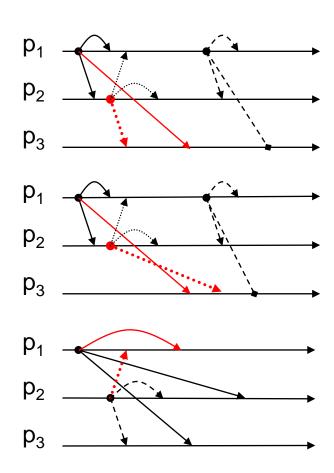
- if $m_p \rightarrow m'_p$, all correct processes that deliver m'_p will deliver m_p (that is from the same sender) before m'_p .

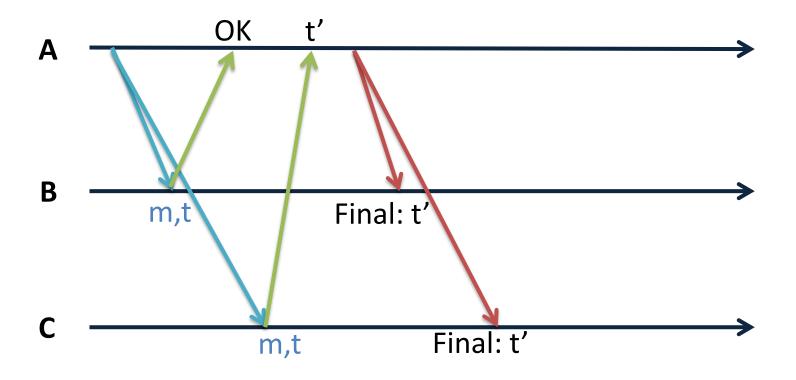
Causal

- if $m \rightarrow m'$, all correct processes that deliver m' will deliver m before m'.

Total

 if a correct process delivers m before m', all other correct processes that deliver m' will deliver m before m'.





Queue at B:

x,t1,pending	m,t,pending		
x,t1,pending	y,t2,ready	m,t',ready	Don't forget to sort!

