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FIFO Order

• FIFO Delivery Rule:

- send(m) on $i \rightarrow$ send(m') on i implies that

 $\text{deliver(m) on } \textbf{k} \rightarrow \text{deliver(m') on } \textbf{k}$

Causal Order

- Causal Delivery Rule:
 - send(m) on $\mathbf{i} \rightarrow \text{send(m')}$ on \mathbf{j} implies that deliver(m) on $\mathbf{k} \rightarrow \text{deliver(m')}$ on \mathbf{k}
- FIFO Order not sufficient to ensure Causal Order

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