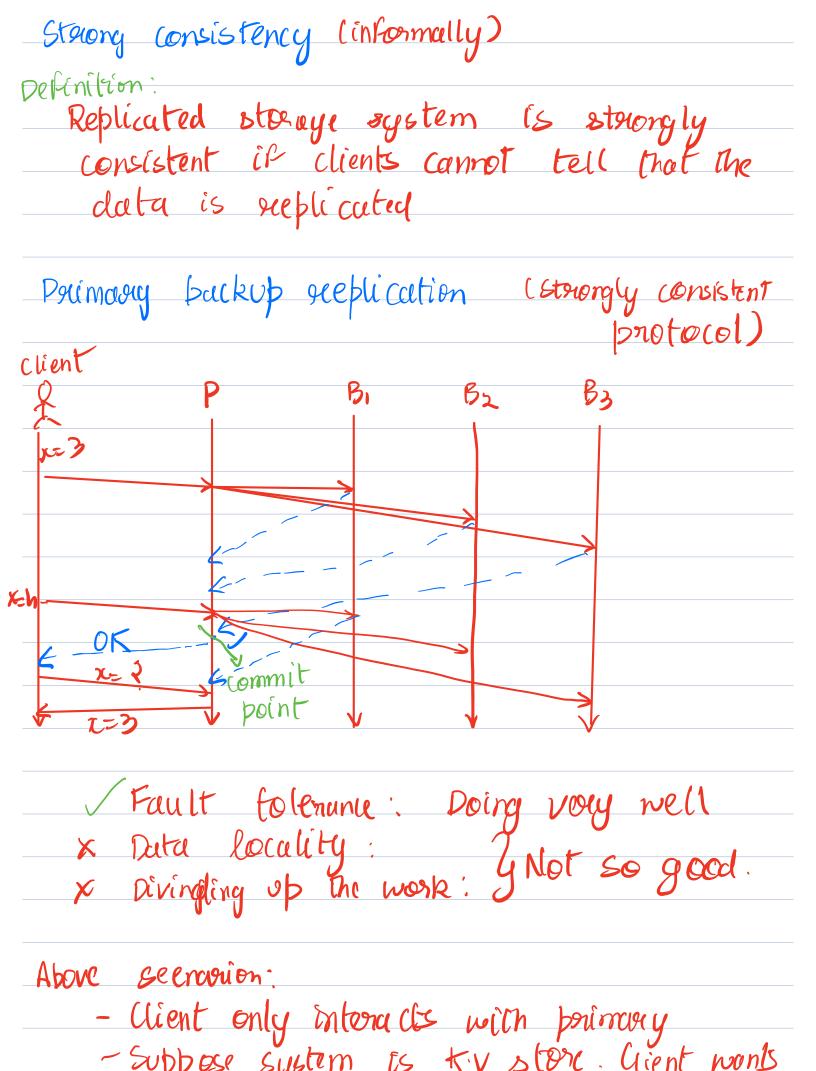
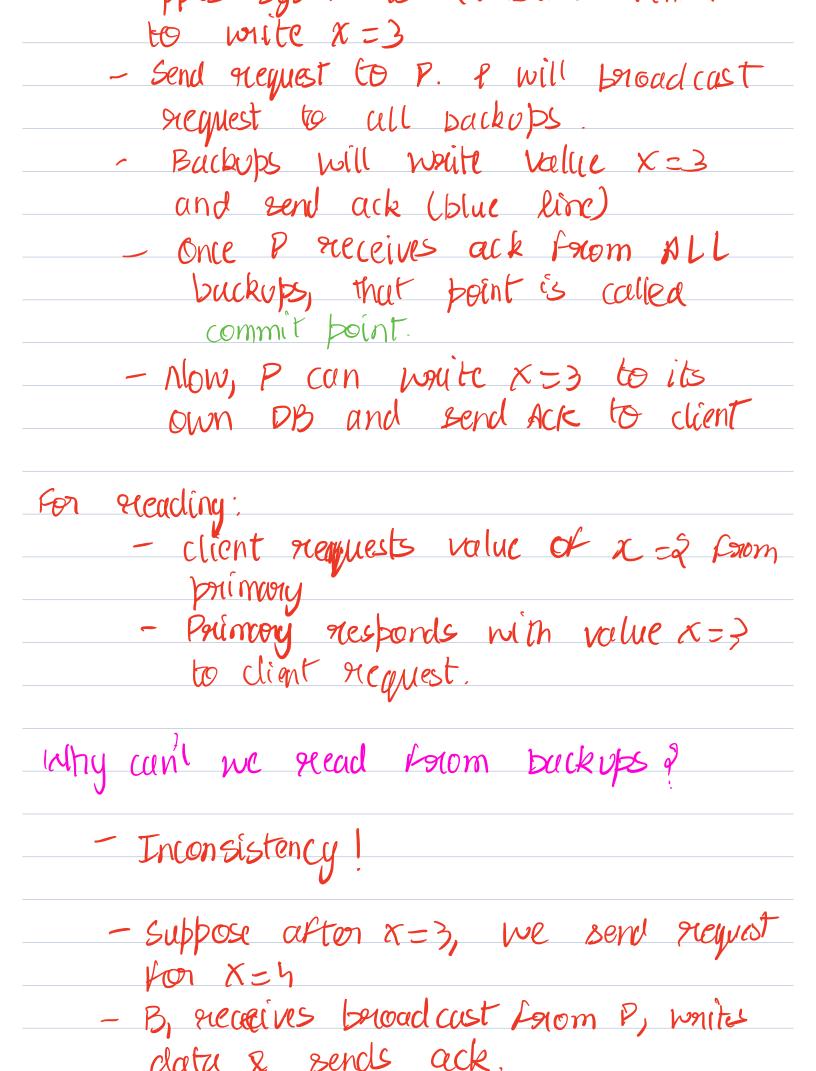
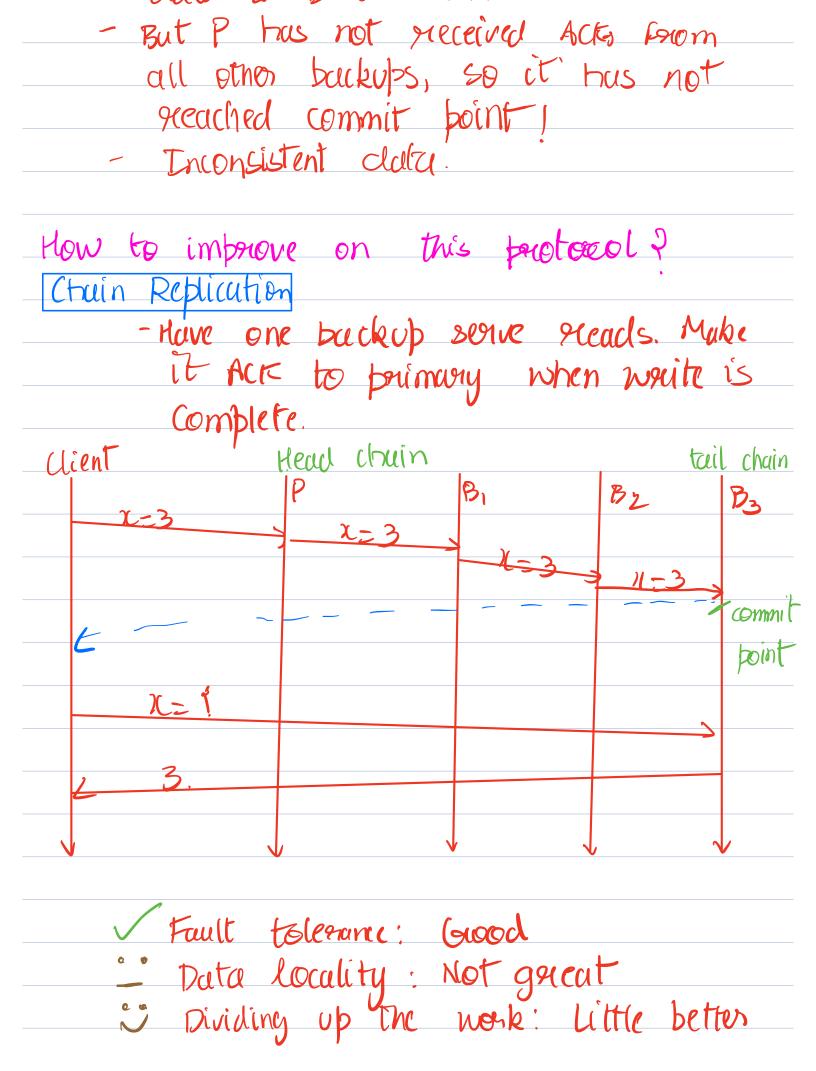
Agenda
- Reasons to do replication
- Strong consistency (informally)
- Primary backup replication
- Chain replication
- Latercy & throughput
- Exam Review
Reasons to do seplication
recuser of the graphed in the
- Mitigatine data loss 2=3
- Mitigating data loss i.e fault tolemance
The real to terrain C
- Data Cocality
- Hours data class to the clients
-Having data close to the clients that need it.
LNAC MECA LES
- dividing up the work
Pouncides of doing sublication!
- Expensive
- Have to keep replicus consistent (often!)







Paper Name:	Chain replication for supporting
\	High through put & Availability
	van Renesse & Schneider (2004)
<u> </u>	
Thorough frut	
- Number	of actions por unit time
Detending on	workload (mix of wignites (reads)
cr can g	ive you better moughput man PB CRZPB.
The workload	15 only readed
CR = P	B
th all wai	
CR = PI	3
50-50 oblit	Litra regul & monitor is not
ideal for 1B	since varites are more expension
iocour ve v cie	— one proposed
For cle,	15% wontes More on less
`	15% wontes More on less 85% Accude Optimal

Downsides of chain replication?
Latency: time between stoort 2 and of one action.
- For read entency, CR=PB
- For writes: In PB, parallel processing  Since broadcust sent from
painway at the same time on CR, msy sends one
by one in the chain-
polding more servins
polding more servens increases latency (
: CR has worke write latery
i. cR has worke write latery han PB depending on dain length.
Midtom seview!