

Computer Networks

- Computer Networks are usually shared by multiple users.
- What does CDMA stand for and what problem is it meant to address?
 - In a computer network, what problem does the binary exponential backoff algorithm address? How does the binary exponential backoff algorithm work?
 - Computer networks, and ~~the~~ computer systems in general, have limited numbers of resources.
 - In a computer network, with point-to-point communication, what limited resource does flow control address?

Sliding window protocols provide flow control.

- Describe the sliding window protocol that TCP uses.
- How would you provide flow control for multicast (point-to-multipoint) communication?

Distributed Systems

- Can you state the Fischer-Lynch-Patterson result?
 - What is the consensus problem in a distributed system?
 - How is this related to the Chinese General's problem?
 - How is it related to the problem of connection establishment/disestablishment?
- Distributed enterprise systems use 3-tier architecture.
- ~~What~~ What are the ~~3~~ 3 tiers ~~in~~ in a 3-tier architecture?
 - How would you design a distributed computer system for amazon.com?
 - What are Web Services? What problems are they meant to address?
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