Review

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COMP nologies
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```

Lecturer: Ling Luo

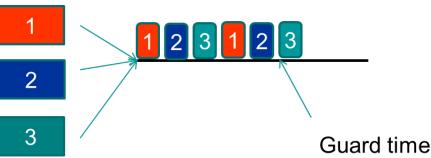
Semester 2, 2021

Medium Access Control (1)

- MAC sub-layer is used to assist in resolving transmission conflicts
- Static channel allocation Assignment Project Exam Help
 Time divisi

 - Frequency https://eduassistpro.github.io/

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Medium Access Control (2)

- Contention
 - ALOHA, Slotted ALOHA
 - Carrier Sense Muntiple Rices Example Selbent, nonpersistent, p https://eduassistpro.github.io/
- Collision Free:
- Limited Contention! Washit edu_assist_pro
- Wireless LANs: MACA

Data Link Layer

- Reliable, efficient communication of "frames" between two adjacent machines.
- Functions of the data link layer:
 Assignment Project Exam Help
 Provide a well-defined service interface to network
 - layer https://eduassistpro.github.io/

 - Handling transmission erro
 Add WeChat edu_assist_pro Data flow regulation

Framing

- Methods:
 - Character (Byte) count
 - Flag bytes with byte stuffing
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 Start and end flags with bit stuffing
- Most data li https://eduassistpro.gdhubina/tion of character count and one edu_assist_pro

Error Control

- Error Control
 - Detecting errors
 - Parity
 - Checkssignment Project Exam Help
 - Cyclical Rhttps://eduassistpro.github.io/
 - Correcting
 - Hamming Add WeChat edu_assist_pro

Flow Control

- The fast senders vs slow receivers problem requires a solution
- Feedback based flow control: ack Assignment Project Exam Help
 - Stop and w
 - Sliding win https://eduassistpro.github.io/ecti
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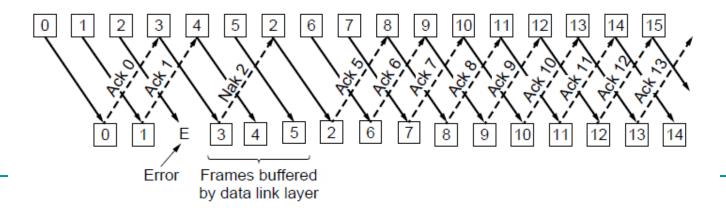
Go-Back-N vs. Selective Repeat

 Trade-off between efficient use of bandwidth and data link layer buffer space

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Physical Layer

- The physical layer is concerned with the electrical, timing and mechanical interfaces of the network
 - Assignment Project Exam Help Timing: data rate, latency
 - Mechanicahttps://eduassistpro.github.io/
 - Electrical: modulations, y ls, signal strength ...

Network Protocol Hierarchies (1)

Layers, protocols and interfaces

```
Consider the network as
                             a stack of layers
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                              ach layer offers
    https://eduassistpro.gierviee.sdp layers above
                                 ough interface
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                                tocol is an
                             agreement between the
                             communicating parties
                             on how communication
                             is to proceed
```

Network Protocol Hierarchies (2)

Information flow supporting virtual communication in layer 5

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