CS447-002: Lecture Note (Lecture #16, March 18, 2024)

1. Pick up:
   - Attendance card
   - Quiz #7 question list

2. Announcements:
   - Quiz #6 is scheduled today (10 to 15 minutes at the end)
     A timekeeper wanted.
   - Quiz #7 is scheduled on 3/25 (Monday next week)
   - Project #3 has been emailed to the graduate students

3. Medium Access Control (MAC)
   - Concept (“What is MAC for?”)
   - Three different types or “MAC” (central MAC, token MAC, contention MAC)
   - CSMA-CD (Carrier Sense Medium Access with Collision Detection)
     - Persistency algorithms (no-persistent, 1-persistent, p-persistent algorithms)
     - BEB (Binary-Exponential-Backoff) algorithm
     - Performance analyses (as exercises)
   - Token-Ring MAC
     - https://ipsit.bu.edu/sc546/sc441Spring2003/fddi/fdditoken.html

4. IP addresses
   - Host address and domain address
   - IPv4 protocol design
     - 32-bit address space
     - Class-less Inter-Domain Routing (CIDR) and CIDR-prefix
     - Subnets and subnet mask

5. Quiz #6 (10 to 15 minutes)