CS447-002: Lecture Note (Lecture #21, April 3, 2024)

1. **Pick up:**

   - Attendance card

2. **Announcements:**

   - Quiz #8 is scheduled today (10 to 15 minutes at the end)

     - A timekeeper wanted

3. **IP addresses**

   - Exercise question on March 27th

4. **ARP (Address Resolution Protocol)**

   - MAC (Medium Access Control) address (demonstrate it by ARP2.ppt)

     - MAC Vendor ID

   - How does ARP do it?

     - ARP Cache

5. **Internet routing**

   - Autonomous System (AS)
   - Tire-1, 2, and 3 AS (ISP)
   - CIDR-routing (distance-vector routing algorithm)

   - Exercise question on April 1st

6. **Routing algorithms (if time permits)**

   - Distance-Vector Algorithm (Dijkstra Shortest-Path Algorithm)
   - Link-State Algorithm (Bellman-Ford Shortest-Path Algorithm)

7. **Quiz #8** (10 to 15 minutes)

   - A timekeeper wanted