

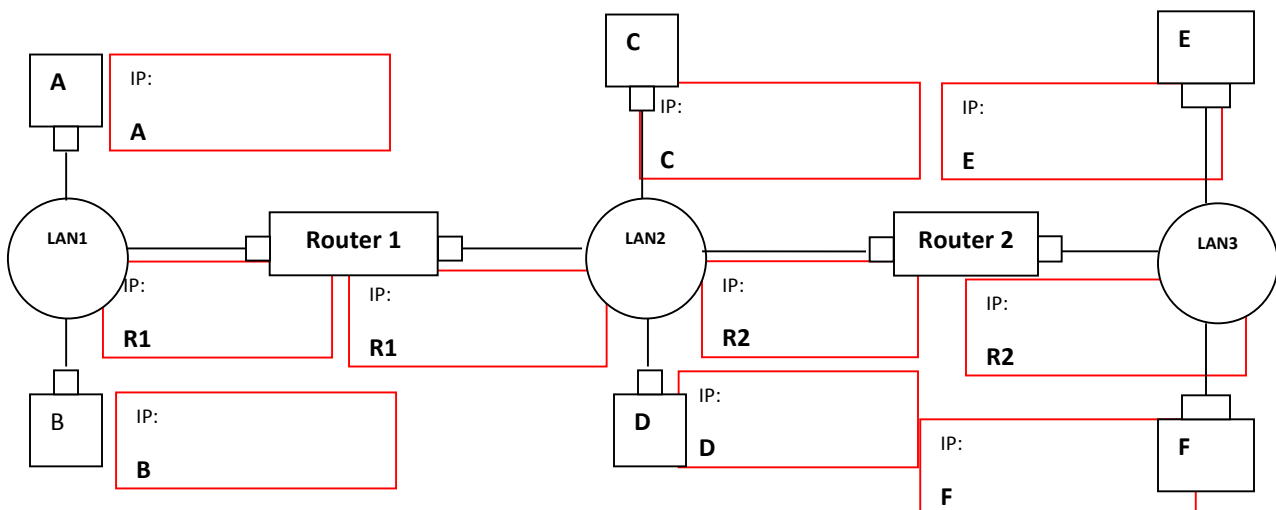
CS 372 **Introduction to Computer Networks**
Self-Check Exercises: Lecture 36

1) What is a MAC address, and how is it different from an IP address?

2) What is the MAC address FF-FF-FF-FF-FF-FF used for?

3) What is ARP used for?

- 4) Given the following diagram, which represents 3 LANs connected by 2 routers.
- Assign IPv4 addresses to all of the NICs. For LAN1, use addresses in 192.168.1.0 / 24. For LAN2, use addresses in 192.168.2.0 / 24. For LAN3, use addresses in 192.168.3.0 / 24.
 - Assign MAC addresses to all of the NICs.



c. List the steps for **E** to send a datagram to **B**. Assume that all of the ARP tables are up-to-date.

d. List the steps for **E** to send a datagram to **B**. Assume that **E**'s ARP table is empty, but all of the other ARP tables are up-to-date.