- 1. As a communication systems engineer, what are the metrics you would use in system design?
- 2. Describe the layers and corresponding functions of the OSI reference model. What layers comprise the TCP/IP stack?
- 3. What are the pros and cons of cross layer design?
- 4. I characterized Packet Switching and the End-to-End principle as the two key design choices for the Internet. Describe them.
- 5. At what layer does ARQ exist? At what layer does TCP exist? Compare them in terms of how they provide reliability.
- 6. Describe the hierarchical structure and addressing of the Internet.
- 7. Why do we have both MAC & IP Addresses?
- 8. In setting up a network, should you use a switch or a router? Describe the pros and cons.
- 9. Think about security in a layer 2 switch. Lookup the broadcast storm and ARP/switch poisoning.
- 10. Explain the tradeoff between Packet Switching and Circuit Switching?