

CS447 Networks and Data Communications

June 18 Lecture Note

0. Announcements:

(1) Project #1

- Compile the required client process using your Visual C++ (as a console mode app.)
- Study the WinSock APIs for the server process
- Suggested resource (especially for the server process)

<https://ykkim.gitbook.io/ec/other-programming/socket-programming/window-socket-programming>

(2) Homework #2 – based on the exercises we work on today

- Homework #2 questions will be emailed to each of you by the noon tomorrow (6/19)
 - If you do not receive the question, contact Dr. Fujinoki
- Submission due: 11:00 a.m., June 23

(3) Quiz #2 (scheduled on 6/23)

- Sample Quiz #2 questions will be shared during the lecture today (6/18)
 - We will review the sample questions today (6/18)
 - Quiz #2 is scheduled at the end of the CS447 lecture on Tuesday (6/23)
- Ten questions will be asked in Quiz #2 (6/23). At least five questions from the sample questions will appear in Quiz #2. At most five new questions (those that do not appear in this list can be asked in Quiz #2).

1. ARP (Address Resolution Protocol)

- What is it for?
- How does it work?
- ARP case studies (and the exercises)

2. IP (Internet Protocol – a. k. a., “layer 3 in the OSI 7-layer reference model)

- Domain addresses and host addresses
- The classic 3-class IP address structure
- IP subnets and subnet masks
- Exercises