

# Recitation 10



# What's coming up:

- HW3
  - Submission 2: Wednesday, April 1st, 2026 @ 8:00 pm (TODAY)
  - Submission 3: Wednesday, April 8th, 2026 @ 8:00 pm
- Exam 2: Tuesday, April 7th
  - Covers all topics covered between Midterm-I and up until the lecture on Thursday (i.e., 4/2).

# Common Issues With HW3

- Not testing your code with the our implementations for Submissions 1 and 2
  - This is how we grade your projects, so make sure it works or you may lose points!
- Not using `DataInputStream` + `DataOutputStream`
  - Our implementation uses these objects, so your code won't work with our code if you don't use them.

# Interesting commands

- **ifconfig**
  - (interface configuration) This is a useful command to know when you need to debug a network / system.
- **traceroute**
  - traceroute command in Linux prints the route that a packet takes to reach the host.
  - Hop count: refers to the number of networks or network devices through which a packet passes through between source and destination.
- **ping**
  - This is a diagnostic tool used to test the reachability of a host on an IP network.
  - **Latency measurement:** It measures the round-trip time (RTT) for messages sent from the originating host to a destination computer that are echoed back.
  - It reports the percentage of packets that fail to reach the destination, helping identify network congestion or hardware issues.

# How these commands work together

- **ifconfig** tells you where you are starting from.
- **traceroute** shows you the path you are taking.
- **ping** tells you how fast the round trip is and if the destination is "alive."

# Recitation Activity

- Complete the worksheet in Canvas.