SER 321 A Session

SI Session

Sunday October 1st 2023

6:00 - 7:00 pm MST

Agenda

Communication Deep Dive!

Client and Server

Threaded Client and Server

Peer to Peer

SI Session Expectations

Thanks for coming to the **SER 321** SI session. We have a packed agenda and we are going to try to get through as many of our planned example problems as possible. This session will be recorded and shared with others.

- If after this you want to see additional examples, please visit the drop-in tutoring center.
- We will post the link in the chat now and at the end of the session.
 - tutoring.asu.edu
- Please keep in mind we are recording this session and it will be made available for you to review 24-48 hours after this session concludes.
- Finally, please be respectful to each other during the session.

Interact with us:

Zoom Features

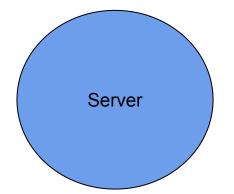


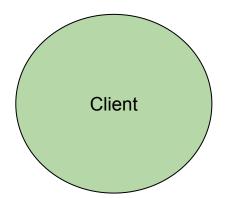
Zoom Chat

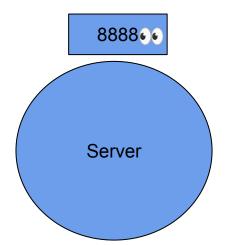
- Use the chat feature to interact with the presenter and respond to presenter's questions.
- Annotations are encouraged

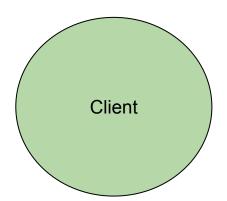
Can we diagram the client-server communication?

Can we diagram the client-server communication?





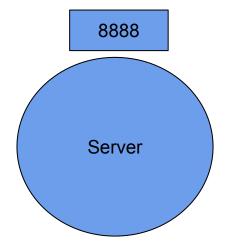


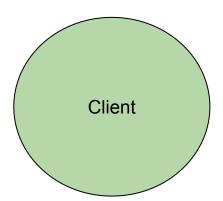




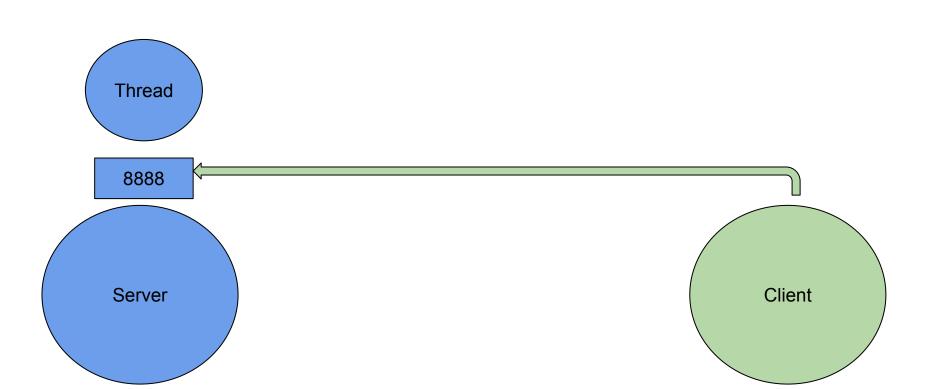


SER 321 Threaded Client and Server

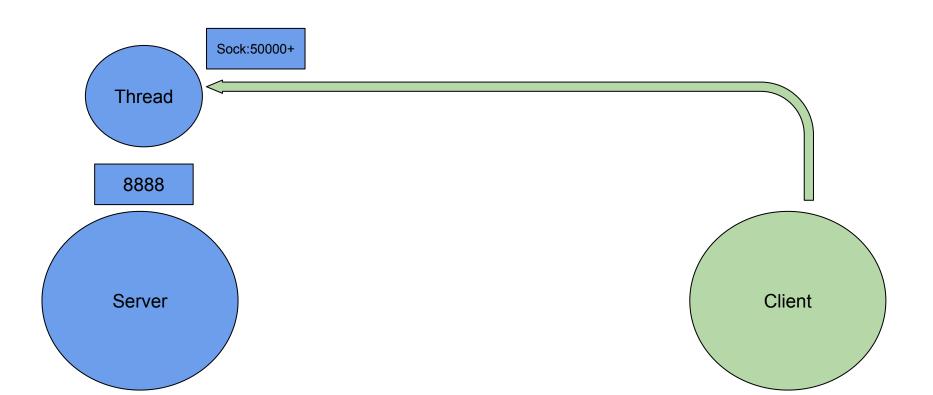




SER 321 Threaded Client and Server



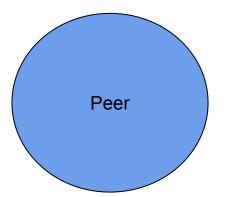
SER 321 Threaded Client and Server



ServerSocket serv = new ServerSocket(portNo); while (true) { System.out.println("Threaded server waiting for connects on port " + portNo); **SER 321** sock = serv.accept(); System.out.println("Threaded server connected to client-" + id); Threaded Client and Server // create thread ThreadedSockServer myServerThread = new ThreadedSockServer(sock, id++); // run thread and don't care about managing it myServerThread.start(); Sock:50000+ **Thread** 8888 Client 2 Server Client

SER 321 Peer To Peer

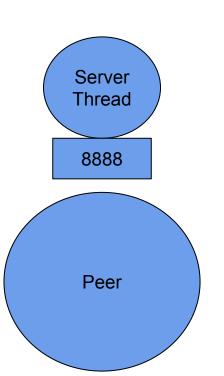
Let's look at some code first - Peer, ServerThread, ServerTask



```
if (args[3].equals("true")){
               System.out.println("Is leader");
               peer.setLeader(true, s);
       } else {
               System.out.println("Pawn");
                // add leader to list
                peer.addPeer(s);
                peer.setLeader(false, s);
                // send message to leader that we want to join
               peer.commLeader("{'type': 'join', 'username': '"+
       serverThread.setPeer(peer);
        serverThread.start();
       peer.askForInput();
```

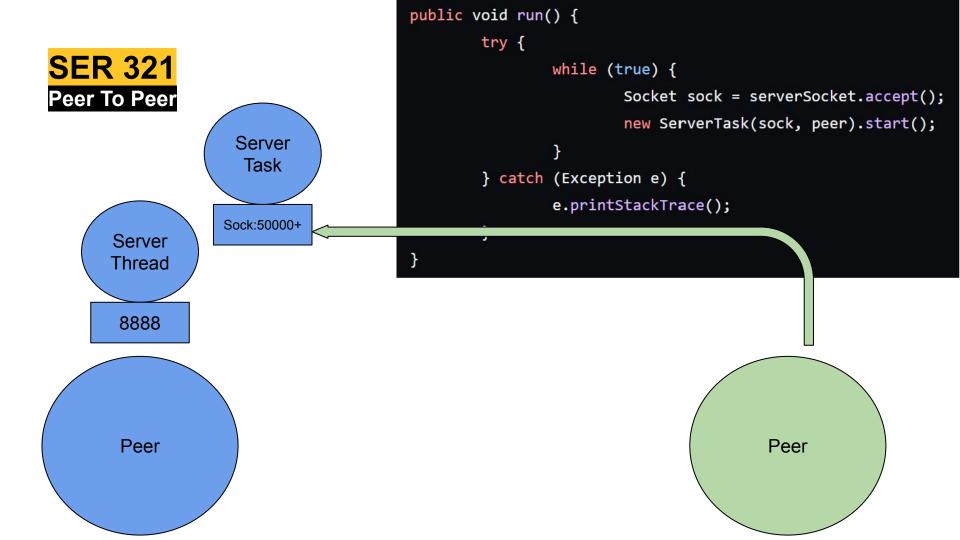
SER 321 Peer To Peer

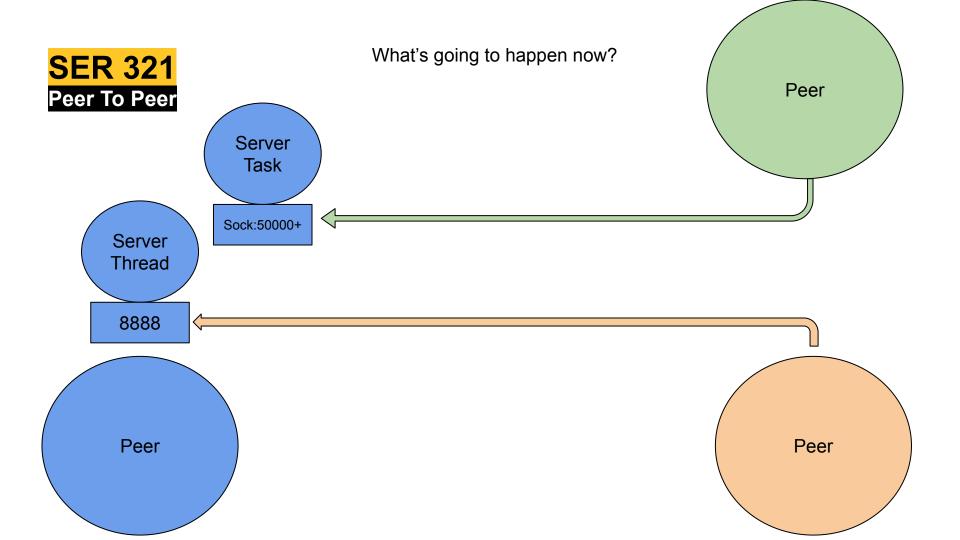
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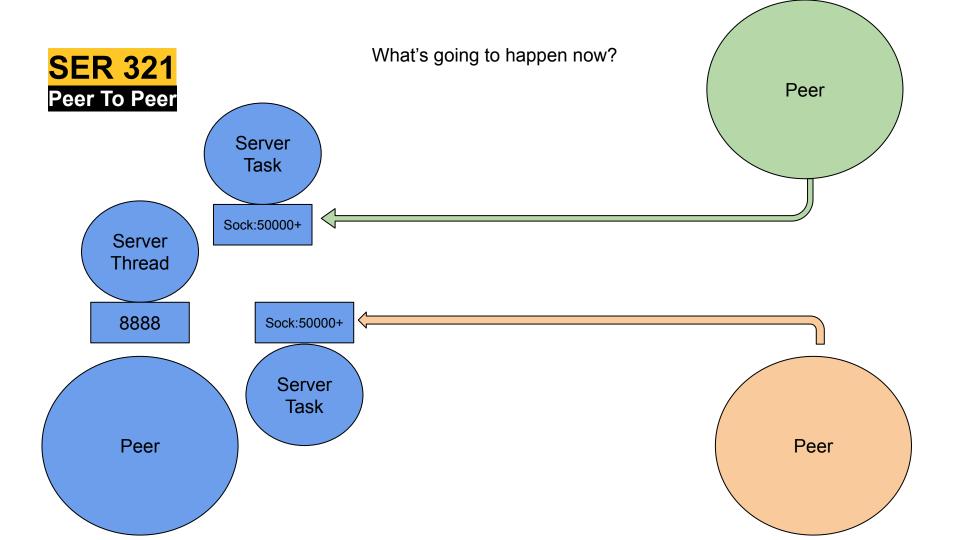


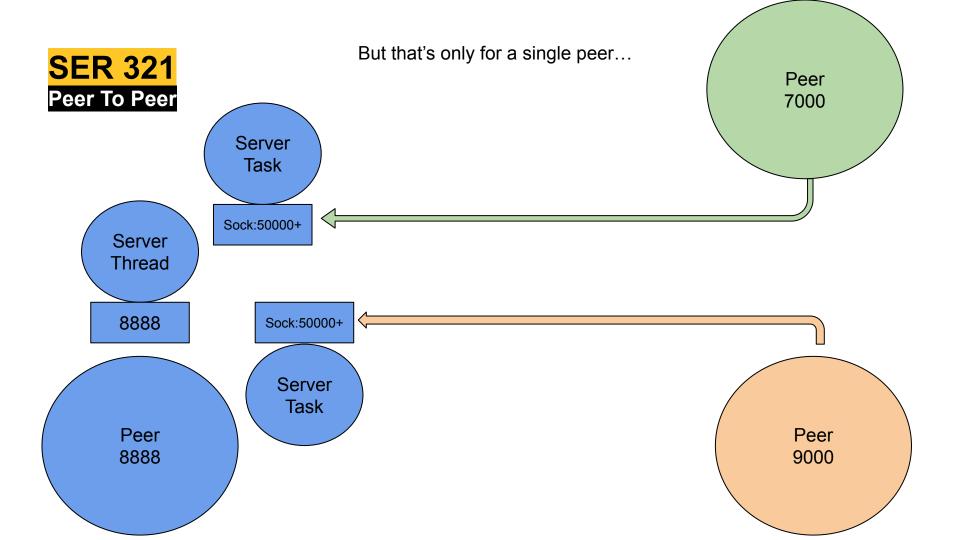
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                // send message to leader that we want to join
                peer.commLeader("{'type': 'join', 'username': '"+
        serverThread.setPeer(peer);
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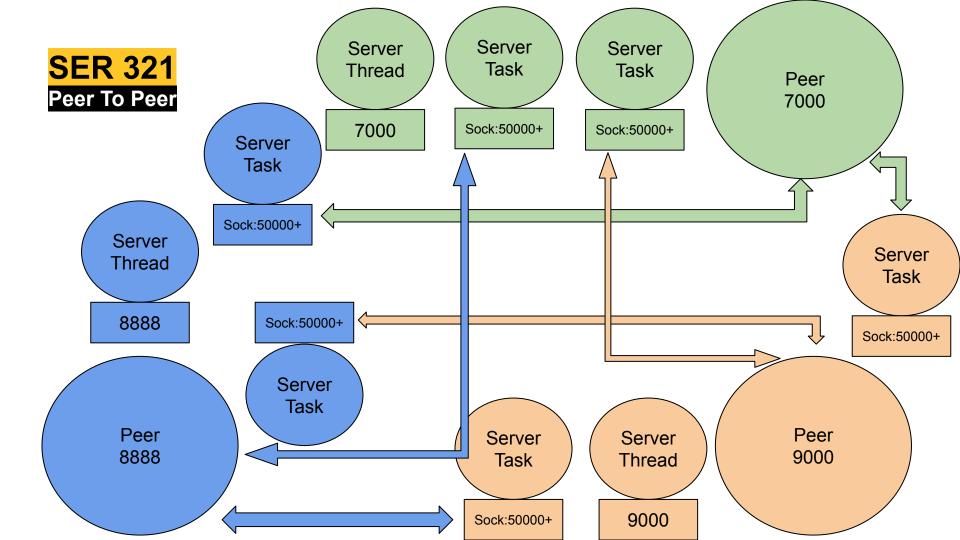
```
public void run() {
                                              try {
SER 321
                                                      while (true) {
Peer To Peer
                                                             Socket sock = serverSocket.accept();
                                                             new ServerTask(sock, peer).start();
                                              } catch (Exception e) {
                                                      e.printStackTrace();
       Server
      Thread
       8888
       Peer
                                                                             Peer
```







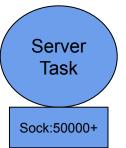






Server Thread 8888

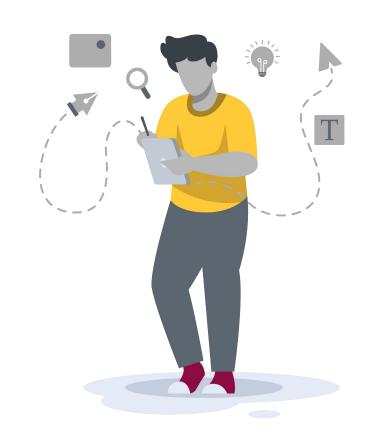
Server Task Sock:50000+ Peer 8888



Questions?

Survey:

https://bit.ly/asn_survey



Upcoming Events

SI Sessions:

NONE

Review Sessions:

Tomorrow Monday October 2nd 2023 at 6:00 pm MST

More Questions? Check out our other resources!

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University College

Academic Support

Academic Support Network (ASN) provides a variety of free services in-person and online to help currently enrolled ASU students succeed academically

Services



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Need help using Zoom?

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View digital resources

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Access your appointment link

Access the drop-in queue

Schedule Appointment



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View digital resources

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- 2. Click on 'View the tutoring schedule' to see when tutors are available for specific courses.

More Questions? Check out our other resources!

tutoring.asu.edu/online-study-hub

Select a subject
- Any -







Don't forget to check out the Online Study Hub for additional resources!

Additional Resources

<u>CoureRepo</u>

Dining Philosophers Interactive

Raft Interactive