# SER 334 A Session

SI Session

Thursday, January 11th 2024

7:00 pm - 8:00 pm MST

# Agenda

What is SI?

About Me

**Session Times & Expectations** 

**Pointers** 

Course Tips!

# What is SI? Informational Video

# What is SI?



### About Me Katie

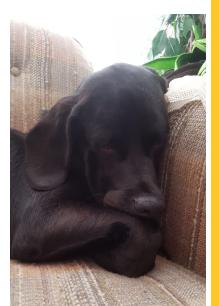
- Born and raised near Chicago, Illinois
  - Moved around within the Northern Suburbs
  - Currently in Grayslake
- Work at a family-owned Italian restaurant
- Received AS from my local Community College
- Transferred to ASU at the start of 2020
- Majoring in Software Engineering
- Runs in the family
  - Father is a Software Architect
  - Mother is a Quality Assurance Analyst



## About Me Katie

- Hobbies
  - o Gaming
  - Football (Go Bears!)
  - o Reading
  - Learning
  - o Doggos! 😊



















## SI Session Expectations

Thanks for coming to the **SER 334** 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.
- 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.

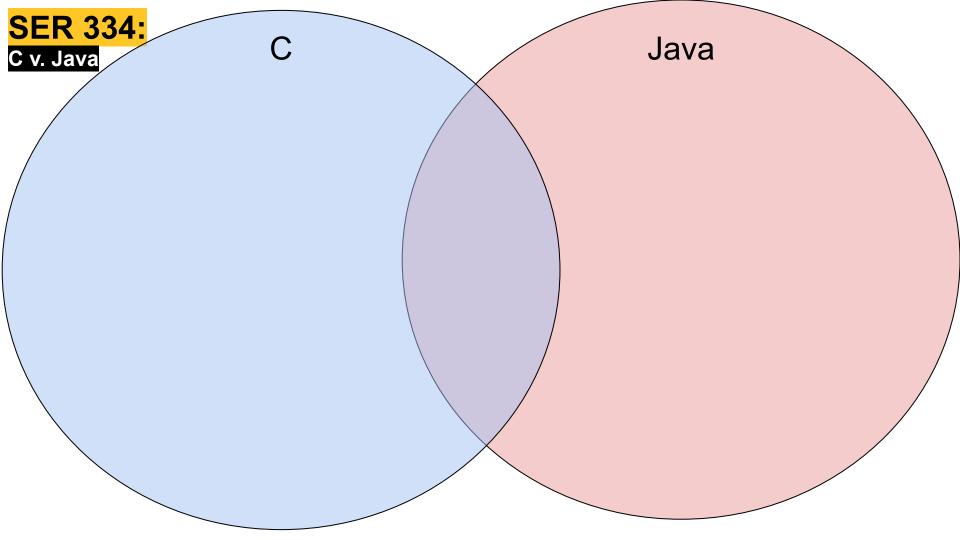
### **Interact with us:**

### **Zoom Features**



#### **Zoom Chat**

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





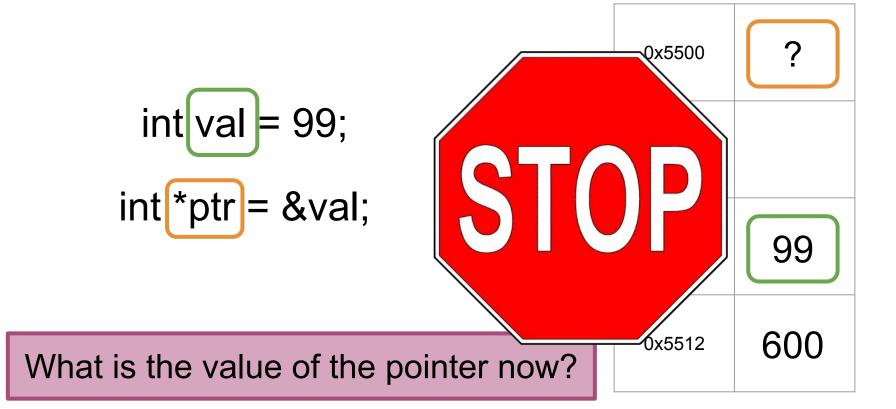
## What is a pointer?

int \*ptr;

Variable

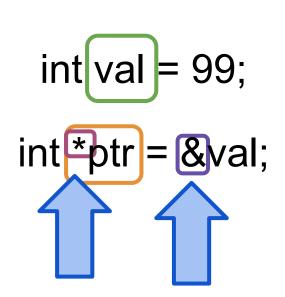
Value is a memory address

## What is a pointer?





## **Two Pointer Operators**



0x5500	?
0x5504	
0x5508	99



### Reference or Dereference?

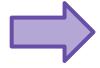




Dereference

Value at



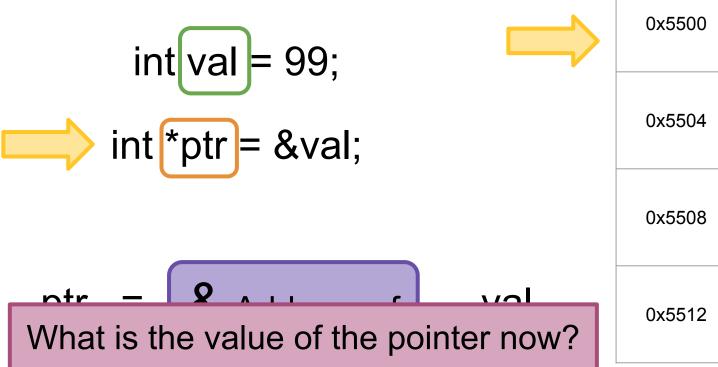


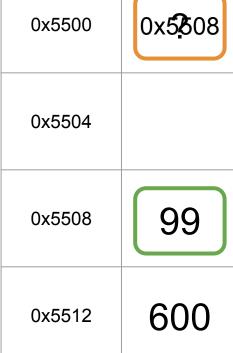
Reference

Address of

\* Value at

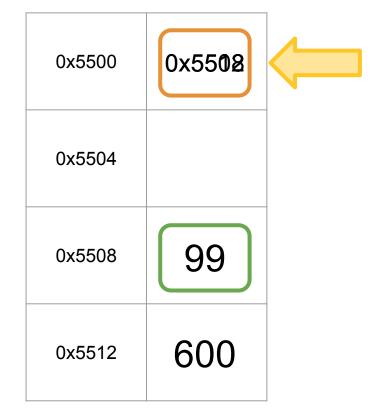
& Address of





\* Value at

& Address of



\* Value at

& Address of

The value at

This location

0x5500	0x5512	
0x5504		
0x5508	99	
0x5512	600	

\* Value at

& Address of

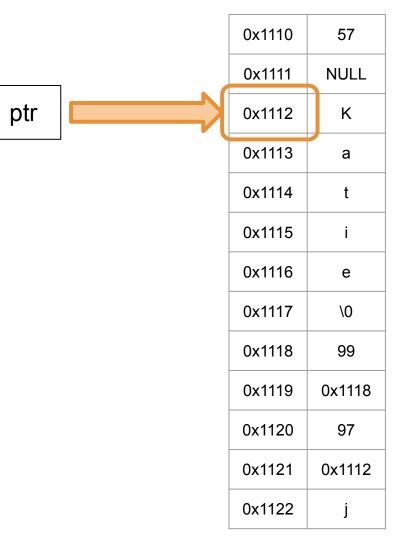
0x5512 0x5500 0x5504 99 0x5508 660 0x5512

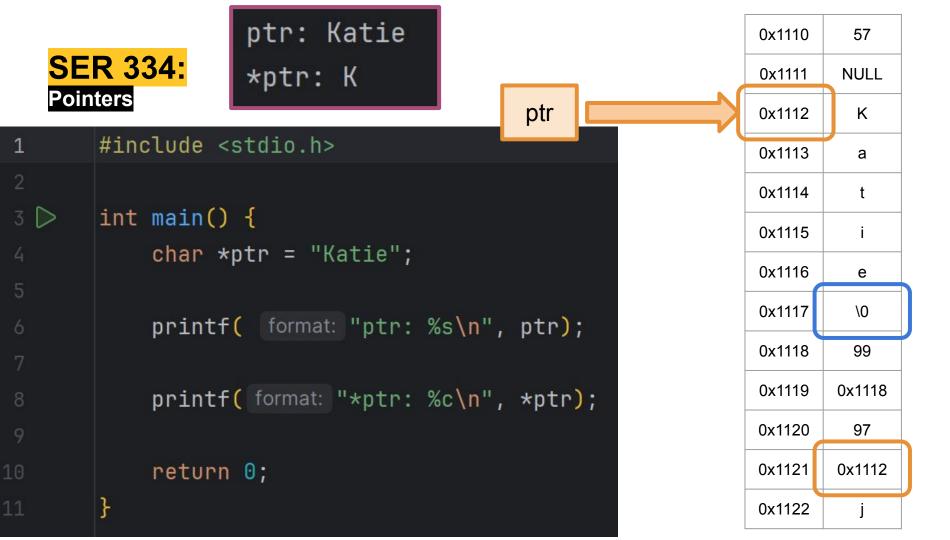
The value at

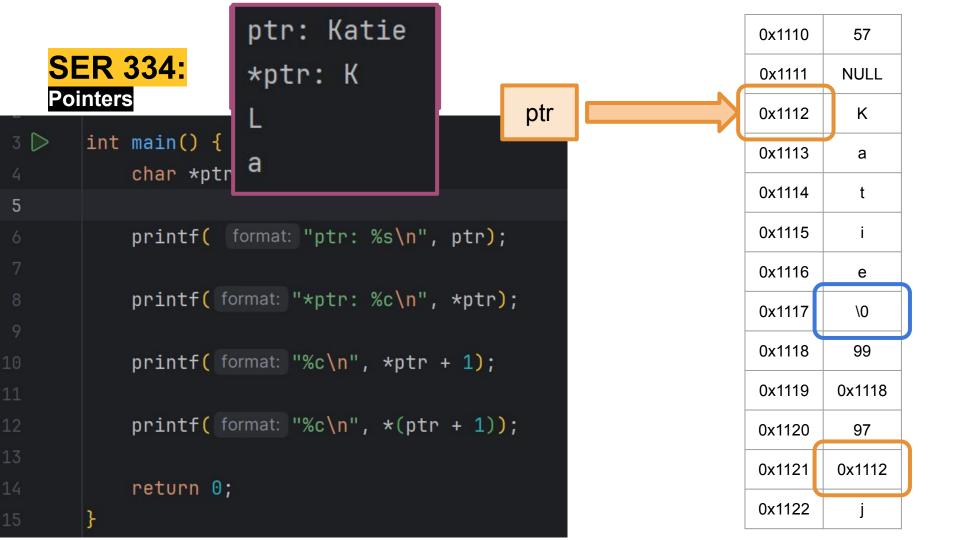
This location

char \*ptr = "Katie";

Pointers are variables that store...







```
0x1110
                                         57
iPtr
                             0x1111
                                        NULL
ptr
                             0x1112
                                         Κ
                             0x1113
                                          а
                             0x1114
                                          t
                             0x1115
                             0x1116
                                         е
                             0x1117
                                         \0
                             0x1118
                                         99
                             0x1119
                                       0x1118
                             0x1120
                                         97
                             0x1121
                                       0x1112
                             0x1122
```

```
iPtr = iPtr + 4;
printf( format: "iPtr: %d\n", iPtr);
printf( format: "*iPtr: %d\n", *iPtr);
*iPtr = 5;
printf( format: "Modified *iPtr: %d\n", *iPtr);
```

```
iPtr
 SER 334:
                                                                  0x1111
                                                                          NULL
Pointers
                                             ptr
                                                                  0x1112
                                                                           Κ
                                                                  0x1113
                                                                            а
iPtr = iPtr + 4;
                                                                  0x1114
                                                                  0x1115
printf( format: "iPtr: %d\n", iPtr);
                                                                  0x1116
                                                                           е
                                                                  0x1117
                                                                           \0
printf( format: "*iPtr: %d\n", *iPtr);
                                                                  0x1118
                                                                           99
                                                                  0x1119
                                                                          0x1118
*iPtr = 5;
                                                                  0x1120
                                                                           97
                                                                  0x1121
                                                                          0x1112
printf( format: "Modified *iPtr: %d\n", *iPtr);
                                                                  0x1122
```

0x1110

57

### SER 334: Tips for Success!

- Start assignments ASAP and go one step at a time
- Monitor the slack channels!
- Ask questions right away
- Use the <u>Course Repo</u> it's there for a reason!

#### Katie Tip:

Make a general reference sheet!

Add notes for concepts you struggle with

Can then filter the sheet into your note card for the Exam!

You are given a sheet for **Unit 1**, maybe add onto that!



### **Upcoming Events**

## SI Sessions:

- ASN is Closed Sunday, January 14th and Monday, January 15th
- Thursday, January 18th at 7:00 pm MST
- Sunday, January 21st at 7:00 pm MST
- Monday, January 22nd at 7:00 pm MST

## **Review Sessions:**

Exam 1 Review: Thursday, January 25th 7:00 pm - 9:00 pm MST

# **Questions?**

# Survey:

http://bit.ly/ASN2324



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# More Questions? Check out our other resources!

#### tutoring.asu.edu



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### **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



#### **Subject Area Tutoring**

Need in-person or online help with math, science, business, or engineering courses? Just hop into our Zoom room or drop into a center for small group tutoring. We'll take it from there.

Need help using Zoom?

View the tutoring schedule

View digital resources

Go to Zoom



#### Writing Tutoring

Need help with undergraduate or graduate writing assignments? Schedule an in-person or online appointment, access your appointment link, or wait in our drop-in

Access your appointment link

Access the drop-in queue

Schedule Appointment



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Now supporting courses in Math, Science, Business, Engineering, and Writing.

Online Study Hub

1\_

#### Go to Zoom

2\_

Need help using Zoom?

View the tutoring schedule

View digital resources

- 1. Click on 'Go to Zoom' to log onto our Online Tutoring Center.
- 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**

• Course Repo