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CSE 143 19su



Where Have We Been?

- CS Concepts
 - ◆ client / implementer, efficiency, recursion, hashing, etc.
- Data Structures
 - ◆ Lists, Stacks, Queues, Sets, Maps, etc.
- Java Language
 - ◆ references, generics, inheritance, polymorphism, etc.
- Java Collections
 - ◆ ArrayList, LinkedList, TreeSet, HashSet, etc.

Where Did We Learn?

→ Abstraction

- ◆ use existing code without understanding the implementation
- ◆ implement components that can be used in that same way

→ Problem Solving

- ◆ breaking down problems and *drawing pictures*

→ Design Decisions

- ◆ writing code that is efficient and scales well
- ◆ keeping code easy to read for maintainability

→ Recursion

- ◆ redefine problems in terms of smaller versions of themselves
- ◆ write concise but incredibly powerful code

What Other Languages?

→ It depends on what you want to build...

- ◆ iOS apps: [Swift](#)
- ◆ Android apps: Java, [Kotlin](#)
- ◆ Client-side web: [Javascript](#)
- ◆ Data processing: [Python](#)
- ◆ Data Management: [SQL](#)
- ◆ Embedded systems: [C](#) / [C++](#)

→ What about functional programming?

- ◆ [Racket](#), [Haskell](#), [Scala](#), [Java 8 Lambdas](#)

What Other Classes Should I Take?

→ CSE non-majors

- ◆ CSE 154: Web Programming
- ◆ CSE 163: Data Programming
- ◆ CSE 373: Data Structures and Algorithms *
- ◆ CSE 374: Programming Concepts and Tools
- ◆ CSE 413: Programming Languages

→ CSE major

- ◆ CSE 311: Foundations of Computing *
- ◆ CSE 332: Data Structures and Algorithms
- ◆ CSE 341: Programming Languages
- ◆ CSE 344: Intro to Data Management
- ◆ CSE 351: Hardware / Software Interface

** natural follow-up to CSE 143*

What About Internships?

- You can get them knowing what you do now
- There are lots of career fairs around campus
 - ◆ Especially in the Autumn and Winter quarters
 - ◆ Starting looking early
- Apply to lots of places
 - ◆ You will get rejected at times (trust me...)
- If you are just starting out...
 - ◆ [Microsoft Explore](#), [Google Practicum](#), [Facebook University](#)

What Else Do You Want to Know?