Victory Lap

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 themself
  ◆ 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?