

CSSE220 Fall 2023-24: Topic Summaries and Additional Resources

Week	Monday	Tuesday	Thursday
0			<ul style="list-style-type: none"> • Java Cheat Sheet • Casting • Returning Values • Methods
1	<ul style="list-style-type: none"> • Arrays & ArrayLists • Variable Scope • Variable Types and assignment • For Loops and Enhanced For Loops 	<ul style="list-style-type: none"> • HashMaps • 2DArrays • Academic Integrity 	<ul style="list-style-type: none"> • Constructors • Introduction to Classes in Java
2	<ul style="list-style-type: none"> • The This Keyword • Static Methods & Fields 	<ul style="list-style-type: none"> • UML to Code • PlantUML Cheat Sheet 	<ul style="list-style-type: none"> • Encapsulation
3	<ul style="list-style-type: none"> • JUnit Tests 	<ul style="list-style-type: none"> • Swing Java Graphics 	<ul style="list-style-type: none"> • Interfaces&ImplementsKeyword • Interfaces
4	<ul style="list-style-type: none"> • Exam1 - Non-Coding 	<ul style="list-style-type: none"> • Exam1 - Coding 	<ul style="list-style-type: none"> • Recursion
5	<ul style="list-style-type: none"> • Visibility 	<ul style="list-style-type: none"> • Recursive Helpers 	FALL BREAK
6	<ul style="list-style-type: none"> • EventBasedProgramming 	<ul style="list-style-type: none"> • Inheritance 	<ul style="list-style-type: none"> • Polymorphism
7	<ul style="list-style-type: none"> • Timers 	<ul style="list-style-type: none"> • Exam2 - Non-Coding 	<ul style="list-style-type: none"> • Exam2 - Coding
8	<ul style="list-style-type: none"> • PairProgramming 	<ul style="list-style-type: none"> • OOAndExceptions • TryCatch 	<ul style="list-style-type: none"> • CollisionHandling
9	<ul style="list-style-type: none"> • LinkedLists 	<ul style="list-style-type: none"> • LinkedLists, First/Last 	<ul style="list-style-type: none"> • Sounds of Sorting
10	<ul style="list-style-type: none"> • MergeSort • Selection Sort 	<ul style="list-style-type: none"> • Comparator • Comparable 	<ul style="list-style-type: none"> • Presentation Guide
Finals	<ul style="list-style-type: none"> • Final Exam Prep 		

Course Setup:

- [Clone the CSSE220 Repo](#)
- [How to import an Eclipse project](#)
- [CSSE220 Grading Guide](#)
- [Introductory Codingbat Java Practice Website](#)

Additional Resources:

- [CSSE220 Videos - Panopto Folder](#)
- [Basic OO Principles for CSSE220](#)
- [Drawing Box & Pointer Diagrams](#)
- [UML Cheatsheet](#)

Practice Design Problems:

- [ExampleDesignProblemsDP1andDP2.pdf](#)
- [SolutionsToExampleDesignProblemsDP1andDP2.pdf](#)
- [ExampleDesignProblemsForStudents.docx](#)
- [SolutionsForExampleDesignProblemsForStudents.docx](#)

Practice Recursion:

- <https://codingbat.com/java/Recursion-1>
- <https://codingbat.com/java/Recursion-2>