

Topics	Estimation	Items	Details/Description	References
Core Java	24	Basic Concept	<ul style="list-style-type: none"> - What is Constructor? Types of Constructor? - What is Garbage Collection? - How many ways we can call Garbage Collection from our application? - Algorithm for Garbage Collection - Enumeration? - How can we achieve singleton design pattern? - How can we create an Immutable Class? - Cloning Types -> Deep and Shallow Copy - Heap vs. Stack memory - How to resolve OutOfMemoryException - In how many ways we can create an Object of class? <ul style="list-style-type: none"> -> (Using new keyword, Using Clone Method, Using cls = Class.forName(); cls.newInstance(), using Constructor (Singleton design pattern)) 	Basics: https://www.baeldung.com/java-tutorial https://www.baeldung.com/category/java/
	8	Abstract Class & Interface Estimation: 8 Hours	<ul style="list-style-type: none"> - Abstract Class vs Interface - When to use Abstract Class and when to use Interface - What is marker interface? Example (Serializable, Cloneable) - How can we define Abstract Class or Interface? - Can Interface can be extended into another interface? 	Abstract class: https://beginnersbook.com/2013/05/java-abstract-class-method/ Interface: https://beginnersbook.com/2013/05/java-interface/ Abstract class vs interface https://beginnersbook.com/2013/05/abstract-class-vs-interface-in-java/
	2	Access Modifier Estimation : 2 Hours	<ul style="list-style-type: none"> - Private - Public - Protected - Default 	Access Modifier: https://www.javatpoint.com/access-modifiers https://www.geeksforgeeks.org/access-modifiers-java/ https://www.baeldung.com/java-tutorial
	4	Keywords : Estimation: 4 Hours	<ul style="list-style-type: none"> - Volatile [Threading] - Final - Finally - Finalized - Static - break - continue - Default - Transient 	Keywords: https://www.javatpoint.com/java-keywords Synchronized: https://www.baeldung.com/java-synchronized
	8	Exception Handling Estimation: 8 Hours	<ul style="list-style-type: none"> - Hierarchy of an Exception - Difference Between Runtime and Checked Exception - What is Try, Catch and Finally - What is try with resources? - Difference Between Throws and Throw - Exception vs Error - Custom exceptions [JAVA-8] - Prepare Example 	Exception handling: https://medium.com/edureka/java-exception-handling-7bd07435508c https://medium.com/swlh/all-you-ever-wanted-to-know-about-java-exceptions-cfae1dff8504 https://www.baeldung.com/java-try-with-resources
	2	Manipulate Strings Estimation: 2 Hours	<ul style="list-style-type: none"> - == and equals () - String Vs StringBuffer vs StringBuilder - Why String is Immutable? - What is StringPool? 	String vs StringBuffer vs StringBuilder: https://www.edureka.co/blog/string-vs-stringbuffer-vs-stringbuilder/ https://www.journaldev.com/538/string-vs-stringbuffer-vs-stringbuilder
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