JAVA with Data Structures

Course Duration:	 45 minutes daily for 20 Days, break after every 4 days 		
Average time, students need to invest	 Daily 45 minutes lecture + 30 minutes self-study 		
Programming efforts	 Directly download the source from Git and Run 		
Pre-requisite	JDK and Eclipse		
JAVA packages covered	Java.lang, java.utils, java.io		
Benefits	 It's just not a Java/DS specialization course but a simplified 		
	process, to make concepts simpler and easy to learn.		
	 This course utilizes various psychological aspects of learning e.g. 		
	Spacing Effect, Forgetting Curve, Visuospatial Sketchpad etc.		
	 After the end of this course, students will be able to start 		
	understanding the implementation of core Java classes.		
	 After the end of this course, students will be able to delve further 		
	into complex algorithms and data structures.		
	 After the end of this course, students will be more aligned and 		
	socialized for next level of learning.		

		Content	Date	Status
√ D	ay 1			
	0	Introduction		
	0	Arrays		
	0	Stack using Array		
✓ D	ay 2			
	0	Stack revision		
	0	Queue using Array		
✓ D	ay 3			
	0	Stack revision		
	0	Queue revision		
	0	Questions on Stack/Queue		
✓ D	ay 4			
	0	Stack/Queue revision		
	0	Linked List		
✓ D	ay 5			
	0	Linked List revision		
	0	Circular Linked List		
	0	Questions on Linked List		
✓ D	ay 6			
	0	Circular Linked List revision		
	0	Double Ended Link List		
	0	Stack using Linked List		
	0	Queue using Linked List		
✓ D	ay 7			
	0	Revision of Linked List and Stack/Queue based on Linked List		
	0	Questions on Linked List and Stack/Queue based on Linked List		
√ D	ay 8			
	0	Revision of Linked List		
	0	Revision of Array based Stack/Queue		
	0	Revision of Linked List based Stack/Queue		
√ D	ay 9			

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	0	Examples of Stack	
	0	Examples of Queue	
	0	Examples of Linked List	
✓	Day 10		
	0	Binary Tree	
✓	Day 11		
	0	Revision of Binary Tree	
	0	Binary Search	
	0	Liner Search	
✓	Day 12		
	0	Revision of Binary Tree	
	0	Revision of Binary Search	
	0	Revision of Linear Search	
✓	Day 13		
	0	Shell Sort	
	0	Revision of Binary Tree	
✓	Day 14	,	
	, 0	Revision of Shell Sort	
	0	Partitioning	
	0	Quick Sort	
✓	Day 15		
	0	Revision of Shell Sort	
	0	Revision of Partitioning	
	0	Revision of Quick Sort	
✓	Day 16	Nevision of Quick soft	
	0	Revision of Shell Sort	
	0	Revision of Quick Sort	
	0	Hash Table	
✓	Day 17	Trasti Table	
•	0 Day 17	Revision of Hash Table	
		Heaps	
✓	0 Day 19	пеарѕ	
	Day 18	Revision of Hash Table	
	0	Revision of Heaps	
✓	O Day 19	Revision of neaps	
	•	Revision of Linked List	
	0		
	0	Revision of Array based Stack/Queue	
	0	Revision of Linked List based Stack/Queue	
	0	Revision of Shell Sort	
	0	Revision of Quick Sort	
✓	Day 20		
	0	Revision of Binary Search	
	0	Revision of Linear Search	
	0	Revision of Hash Table	
	0	Revision of Heaps	