

Use This DSA-251 Roadmap On Laptop For Much Better User Experience (Might not be able to see actual problems in mobile)				Important : If you have not created a copy, you will not be able to make changes in the sheet. Make your own copy by choosing 'Make Copy' option from 'File' Menu.			
Don't Miss This Video. One Time Effort To Use This Roadmap Really Well : https://youtu.be/gqvYFIBJMSw	StartDate (Change whenever you start this roadmap)	4/29/2023		Email Id	upskillwithparikh@gmail.com		
Must Read This Before Following This Roadmap!	Topic	Total Questions	Questions Done	Status	Number of days	Deadline (Set According To Start Date)	
Basic DSA							
Most common questions asked by every company (product based or service based) or any startup. These are the basic things which every programmer should know. For every role in tech including software development, backend development, front-end development, full stack web development, data scientists etc., these questions can be asked.	Arrays	5	0/5	Not Started	2	5/1/2023 0:00:00	
	String	5	0/5	Not Started	2	5/3/2023 0:00:00	
	2d Arrays	5	0/5	Not Started	2	5/5/2023 0:00:00	
	Maps/Sets	5	0/5	Not Started	2	5/7/2023 0:00:00	
	Two Pointers	4	0/4	Not Started	2	5/9/2023 0:00:00	
	Basic Algorithms	6	0/6	Not Started	3	5/12/2023 0:00:00	
	Mixed Questions - 1	20	0/20	Not Started	8	5/20/2023 0:00:00	
	Overall Basic DSA Progress	50	0/50	Not Started			
Revision/Break Days					3		
Intermediate DSA							
Asked by most of the product based companies or even small/big product based startups. Roles include software development, backend development	Binary Search	5	0/5	Not Started	2	5/25/2023 0:00:00	
	Recursion Basics	5	0/5	Not Started	2	5/27/2023 0:00:00	
	Linked List	10	0/10	Not Started	4	5/31/2023 0:00:00	
	Stacks & Queues	10	0/10	Not Started	4	6/4/2023 0:00:00	
	Binary Trees & BST	15	0/15	Not Started	7	6/11/2023 0:00:00	

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<u>Must Read This Before Following This Roadmap!</u> development, backend development, full stack web development, data scientists. Some big product companies like Amazon, Google, Microsoft can ask these for front-end development role as well.	Topic	Total Questions	Questions Done	Status	Number of days	Deadline (Set According To Start Date)	
	Mixed Questions - 2	30	0/30	Not Started	15	6/26/2023 0:00:00	
	Overall Intermediate DSA Progress	75	0/75	Not Started			
	Revision/Break Days				6		
<u>Advanced DSA</u>							
Mostly asked by Amazon, Microsoft, Google, Uber or other big product based companies. Some big startups like Zomato, Ola can also ask these questions. Roles include backend development, software development, full stack web development. Not much asked for front-end developer or data scientist roles.	Greedy Techniques	5	0/5	Not Started	3	7/5/2023 0:00:00	
	Tries	5	0/5	Not Started	3	7/8/2023 0:00:00	
	Sliding Window & Dequeue	7	0/7	Not Started	4	7/12/2023 0:00:00	
	Priority Queues & Heaps	7	0/7	Not Started	4	7/16/2023 0:00:00	
	Advanced Recursion & Backtracking	8	0/8	Not Started	4	7/20/2023 0:00:00	
	Dynamic Programming	15	0/15	Not Started	8	7/28/2023 0:00:00	
	Graphs	13	0/13	Not Started	7	8/4/2023 0:00:00	
	Mixed Questions - 3	40	0/40	Not Started	20	8/24/2023 0:00:00	
	Overall Advanced DSA Progress	100	0/100	Not Started			
	Revision/Break Days				10		

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<u>DSA Project</u>							
This is a great DSA project as it includes solving the problem with the use of various data structures like trees, heaps, arrays etc. Also concepts of bits are used. This really gives us great feeling of applying data structures and algorithms.	Huffman Coding	1	0/1	<input type="checkbox"/>			
<u>Miscellaneous DSA</u>							
Asked by companies like Codenation, Directl, and sometimes Google which do very hard interviews related to DSA. Not asked in interviews of majorly other companies.	Bit Manipulation	7	0/7	Not Started	3		
	String Algorithms	5	0/5	Not Started	3		
	Segment Tree	6	0/6	Not Started	3		
	Number Theory	5	0/5	Not Started	3		
	DP With Trees	2	0/2	Not Started	2		
		25	0/25	Not Started			
OVERALL PROGRESS		251	0/251				

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