

Phitron_ALGO

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Module	Video	Topic	Note page	★	Github
mod-1 (Graph)	v-1.1	Graph Theory	B-220	★	Link
	v-1.2	Types of Graph	B-222		
	v-1.4	Real life example of graph			
	v-1.5				
	v-1.6	Input Graph	B-224	★★	
		Graph Representation/Input-Types	B-225		
	v-1.7	Adjacency Matrix	B-226		
	v-1.8	Adjacency Matrix (Undirected)			
		Adjacency Matrix (Directed)			
	v-1.10	Adjacency List	B-229		
	v-1.11	Adjacency List (Undirected)			
		Adjacency List (Directed)			
	v-1.13	Edge List	B- 231		
v- 1.15	Comparisn of 3 Graph Representation	B- 233	★★★		
mod-2 (BFS)	v-2.2	Graph Traversal/Output-Types	B-234	★★★	Link
	v-2.3	BFS Theory	B-235		
	v-2.4	BFS Implementation			
	v-2.5	BFS Animated			
	v-2.7	A_node_can_be_visited_or_not	B-237		
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	v-2.9	Path_Printing	B-238		
Practice day		week 1 practice_01			Link
mod-3 (DFS)	v-3.1	DFS Theory	B-241	★★★	Link
		DFS Implementation	B-243		
	v-3.2	DFS code			
	v-3.4	2D Grid	B-244	★	
	v-3.5	DFS on 2D Grid	B-245		
	v-3.6	DFS on 2D Grid child print	B-247	★★	
	v-3.7	DFS on 2D Grid Full code	B-248		
	v-3.8	DFS on 2D grid Animated			
	v-3.9	BFS on 2D Grid Full code	B-249		
	v-3.10	Variation of 2D Grid	B-250		
	v-3.11	Number of Components	B-251	★★★	

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Module	Video	Topic	Note page	★	Github
Practice day		week 1 practice_02			Link
Assignment		Assignment_01	100/100		Link
mod-5 (Leetcode DFS & BFS)	v-5.1	Island Perimeter			Link
	v-5.2				
	v-5.3	Find if Path Exists in Graph			
	v-5.4	Max Area of Island			
	v-5.5	Number of Islands			
	v-5.6	Count sub islands			
	v-5.7	Number Of Closed Islands			
mod-6 (Cycle Ditection BFS DFS)	v-6.0	Cycle Detection	C-1		Link
	v-6.1	Cycle Detection Undirected graph	C-2		
	v-6.2	Cycle Detection Undirected graph BFS	C-5		
	v-6.4	Cycle Detection Undirected graph DFS			
	v-6.5	Cycle Detection Directed graph DFS	C-6		
Practice day		week 2 practice_01			Link
mod-7 (Dijkstra)	v-7.1	Dijkstra why?	C-10		Link
	v-7.2	Path Relaxation	C-11	★★	
	v-7.3	Dijkstra Concept	C-12		
	v-7.4	Dijkstra "Naive Approch"	C-13	★★ ★★	
	v-7.5	Adjacency list for Weighted graph	C-17		
	v-7.6	Dijkstra Naive Implementaion	C-18		
	v-7.9	Dijkstra "Optimized Approch"	C-21	★★ ★★	
	v-7.10	Dijkstra Optimized Animated			
	v-7.11	Priority queue of pairs	C-22		
	v-7.12	Dijkstra "Optimised Implementaion"		★★	
	v-7.13	Complexity of Dijkstra optimized	C-23	★★	
MID		MID Exam Algorithm	100/100		Link
mod-9 (Bellman)	v-9.1	Why need Bellman Ford	C-26	★	Link
	v-9.2	Bellman Ford concept	C-28		
	v-9.3	Bellman Ford Implementation Idea	C-30		
	v-9.5	Bellman Ford Code	C-32	★★ ★★	

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Ford)	v-9.7	Complexity	C-34		
	v-9.8	Negative weight cycle Detection		★★★	
mod-10 (Floyd Warshall)	v-10.1	Why need Floyd Warshall	C-36	★★★ ★★	Link
	v-10.2	Floyd Washall Concept	C-38		
	v-10.4				
	v-10.6	Negative weight cycle Detection	C-40		
	v-10.7	Bfs vs Dfs vs Dijkstra vs Bellman vs Floyd	C-		
Practice day		week 3 practice_01			Link
mod-11 (Disjoint Set Union) (DSU)	v-11.1	DSU	C-42		Link
	v-11.2	Find Operation	C-43		
	v-11.3	Find Operation using Loop			
		Find Operation using Recursion			
	v-11.4	Find Operation using Recursion-Optimised	C-44	★★	
	v-11.9	Cycle Detection in Undirected graph using DSU	C-46	★★★	
		DSU doesn't work in Directed Graph	C-47		
v-11.10	Cycle Detection in Undirected graph using DSU (code)				
Practice day		week 3 practice_02			Link
Assignment		Assignment_02			Link
mod-13 (Problem Solve)	v-13.1	Roads Construction			Link
	v-13.2	Roads not only in berland theory			
	v-13.3	Roads not only in berland Code			
	v-13.4	Dijkstra Path Printing			
	v-13.5	Sundorban			
mod-14 (Dynamic Programming)	v-14.1	What is DP	C-49		Link
	v-14.2	Recursion Recap			
	v-14.3	Factorial with Recursion			
	v-14.4	Fibonacci with Recursion	C-49		
	v-14.6	Fibonacci Optimise theory		★★★	
	v-14.7	Fibonacci with Memoization	C-51		
	v-14.8	Fibonacci with Loop	C-52		

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Module	Video	Topic	Note page	★	Github
Practice day		week 4 practice_01			Link
mod-15 (0/1 Knapsack)	v-15.1	What is 0/1 Knapsack	C-54		Link
	v-15.2	0/1 Knapsack Implementation	C-55	★★ ★	
	v-15.3				
	v-15.6	Apply DP on 0-1 KnapSack	C-57		
Practice day		week 4 practice_02			Link
Final		Fianl Exam Algorithm			Link