

C++ Master Course

Free Trial

Free

2 Items | Duration : 32mins

- | | | | |
|---|-------------------|---------|--------|
|  | 6. Selection Sort | Preview | 12mins |
|  | 7. Insertion-Sort | Preview | 19mins |













Welcome!

2 Items | Duration : 30mins

- | | | | |
|---|----------------------------------|---|--------|
|  | C++ Code Repository |  | 15mins |
|  | New Course Updates (7-June-2020) |  | 15mins |

Flowchart

6 Items | Duration : 49mins

- | | | | |
|---|--|---|--------|
|  | 1. Introduction to Flowcharts |  | 9mins |
|  | 2. Understanding Conditional Statements |  | 5mins |
|  | 3. Loops Using FlowChart |  | 12mins |
|  | 4. Sum Of Numbers 1 to N Using Flowchart |  | 6mins |
|  | 5. Sum of N Numbers using Flowchart |  | 6mins |
|  | 6. Check Prime or Not_ Using Flowcharts |  | 8mins |

PSUEDOCODES

5 Items | Duration : 50mins



	1.Intro To Pseudocode		6mins
	2.Check Prime PsuedoCode		6mins
	3. Print All Primes till N		14mins
	4. Pattern Problem 1		13mins
	5. Pattern Problem 2		9mins

Brain Teasers

3 Items | Duration : 14mins















	\$ Brain Teaser - Hour Glass		4mins
	\$ Brain Teaser - Circular Jail Cell		5mins
	\$ Brain Teaser - Infinite Quarters		4mins

Getting Started With Programming

9 Items | Duration : 1hrs



	InstallationGuideCPP		15mins
	1. HelloWorld		8mins
	2. FlowChartToCode		11mins

	3. DataTypes		5mins
	4. DataTypes Sizes		6mins
	5. Range_Of_DataTypes		19mins
	6. Access_modifiers		5mins
	7. Operators		8mins
	8. LogicalOperator_		4mins






Getting Started With Programming - II

12 Items | Duration : 1hrs






















	9. While Loop		12mins
	10. Print_All_Even_No		8mins
	11. Sum of Digits		11mins
	12. Break Statement		5mins
	13. Break Statement-2		6mins

	14. Check_Prime		9mins
	15. Continue Statement		8mins
	16. Maximum of N Numbers		15mins

	17. For Loops		6mins
	18. Print All Primes		6mins
	19. Start Pattern Code		5mins
	20. Number Pattern Code		8mins

Challenges - Getting Started With Programming -II

22 Items | Duration : 11hrs

Getting Started With Programming - III 			
10 Items Duration : 1hrs			
	21. Arithmetic Operator		6mins
	22. Scope of Variable		13mins
	23. Bitwise Operators		17mins
	24. Unique Number - 1		8mins
	25. Do While		7mins
	26. Compound Assignment Operator		1mins
	27. Switch Case		9mins
	28. Input WhiteSpaces		18mins
	29. Reference Variable		4mins

	30. Diving into Reference Variable		1mins
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Challenges - Getting Started With Programming -III









14 Items | Duration : 7hrs



Functions

9 Items | Duration : 1hrs



	1. Introduction to Functions		17mins
	2. Understanding Return Type		11mins
	3. Forward Declaration		5mins
	4. Print All Primes		2mins
	5. nCr Problem		6mins
	6. Fibonacci Sequence		14mins
	7. Call By Value and Reference		8mins
	8. Call Stack		9mins
	9. Trailing Zeroes		13mins

Challenges - Function

8 Items | Duration : 4hrs





























Arrays

16 Items | Duration : 2hrs



	1. Introduction To Arrays-2(Optional To Watch)		19mins
	1.Introduction To Arrays		14mins

	2. Array User Input		14mins
	3. Linear Search		7mins
	4. Find Largest Number		5mins
	5. Bubble-Sort		7mins
	6. Selection Sort		12mins
	7. Insertion-Sort		19mins
	8. Inbuilt Sort		8mins
	9. Understanding Comparators In Depth		6mins
	10. Arrays Along with Functions		10mins
	11. Find-Pair-Sum		11mins

	12. Generating_Subarrays		12mins
	13. Maximum-Sum-Subarray		7mins
	14. Maximum-Sum-Subarray-Print		5mins
	15. Maximum-Sum-Subarray-Optimized		12mins

Challenges - 1 D Arrays

14 Items | Duration : 7hrs



2D- Arrays

7 Items | Duration : 1hrs



	1. 2D-Array-Introduction		18mins
	2. User-Input-2DArray		6mins
	3. WavePrint		7mins
	4. 2D-Array_Functions		2mins
	5. SpiralPrint		24mins
	6. Rotate Image		16mins
	7. StairCase-Search		14mins

Challenges - 2 D Arrays

8 Items | Duration : 4hrs



















Character Arrays

13 Items | Duration : 2hrs



	1. Character-Arrays-Introduction		13mins
	2. Iterating-Over-Array		2mins
	3. CharacterArray-UserInput		11mins
	4. Read Lines _ cin.getline()		3mins
	5. Find-Length		4mins

	6. Check Palindromic String		6mins
	7. Handling Numbers and Strings		8mins
	8. Largest-String		7mins
	9. Remove Consecutive Duplicates		9mins
	10. Rotate String		14mins
	11. Count-Frequency		10mins
	12. Longest-k-CharactersSubstring		23mins
	13. Concat-Compare		12mins

Challenges - Character Arrays

15 Items | Duration : 7hrs



String

3 Items | Duration : 25mins



	1. Strings-STL		11mins
	2. String-UserInput		6mins
	3. String-Sorting		7mins

Pointers

8 Items | Duration : 55mins



	1. AddressOfOperator		10mins
	2. Pointers		8mins
	3. Address-Sizes		5mins
	4. Character-Pointer		5mins
	5. Dereference-Operator		10mins
	6. PassByReference		3mins
	7. Arrays and Pointers		9mins
	8. BubbleSort Using Pointers		1mins

Algorithms STL

7 Items | Duration : 45mins



	1. Find Function		7mins
	2. Binary Search STL		2mins
	3. Lower and Upper Bound		10mins
	4. Money Change Problem		6mins
	5. Next Permutation		5mins

	6. Pair STL		8mins
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	7. Some Other Useful STL		4mins
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Challenges - Algorithms STL

5 Items | Duration : 2hrs

Bitmanipulation

14 Items | Duration : 2hrs

	1. Bitwise Operators-Basic		8mins
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	2. Bitwise Operators-Advanced		8mins
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	3. Bitwise Operations-1		12mins
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	4. Bitwise Operations-2		17mins
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	5. Count Set Bits		5mins
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	6. WorkingOnRanges		13mins
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	7. UpdateBitsInNByM		7mins
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	8. Decimal To Binary		11mins
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	9. limitations Of DecimalToBinary		7mins
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	10. Optimized DecimalToBinary		9mins
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	11. Unique Number		7mins
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Set Paragraph Style



12. Unique Number - 2 Code



12mins



13. Unique Number - 3



3mins



14. Unique Number - 3 Code



10mins



Challenges - Bitmasking

6 Items | Duration : 3hrs



Recursion Introduction

6 Items | Duration : 1hrs



1. Recursion-Basics



21mins



2. Fibonacci



20mins



3. Increasing Decreasing Numbers



11mins



4. Print Increasing Numbers



5mins



5. isArraySorted-1



11mins















6. isArraySorted-Iterator



6mins

Diving Into Recursion

	4. Power		7mins
	5. Binary Search		6mins
	6. Playing with Integers		9mins
	7. Recursion-BubbleSort		8mins
	8. MergeSort		13mins
	9. QuickSort		19mins

Challenges - Diving Into Recursion

















8 Items | Duration : 4hrs



Deep Diving Into Recursion

10 Items | Duration : 2hrs



	1. StringToInt		11mins
	2. ReplacePi		12mins
	3. Place Tiles on a Wall		7mins
	4. NStairs		12mins
	5. NStairs-Advanced		4mins
	6. Count Binary Strings		12mins
	7. Friends Pairing		12mins
	8. Balanced Parantheses		16mins

	9. Subsequences.		18mins
	Tower of Hanoi		15mins
Challenges - Deep Diving Into Recursion			
17 Items Duration : 8hrs			

Recursion-IV Subset Based			
4 Items Duration : 55mins			
	1. GenerateParantheses		14mins
	2. PhoneKeypad		13mins
	3. GenerateStrings Problem		14mins
	4. 0-1Knapsack		12mins

Recursion-V Backtracking			
6 Items Duration : 2hrs			
	RatInAMaze		20mins
	Print Permutations		14mins
	Set Example - Unique Permutations		3mins
	N-Queen		25mins
	CPP - Recursion - Sudoku Solver		20mins
	Advanced Backtracking Webinar (Optional)		1hrs

Set Paragraph Style

Challenges - Recursion-V Backtracking



















9 Items | Duration : 4hrs



More Sorting Techniques & Problems

9 Items | Duration : 2hrs









 \$ Merge Sort		16mins
 \$ Inversion Count		21mins
 Quicksort Algorithm		18mins
 \$ Counting Sort		8mins
 \$ Bucket Sort		10mins
 \$ DNF Sort		10mins
 \$ Wave Sort		11mins
 \$ Sort The Strings Challenge		22mins
 Allocation - Google Kickstart		6mins

Dynamic Memory Allocation

6 Items | Duration : 57mins











 01 Compile Time Memory Allocation		7mins
 02 Dynamic Memory Allocation		11mins
 03 Using New and Delete Operators		4mins

	04 Allocating 2D Dynamic Arrays		10mins
	05 Returning Local Arrays vs Dynamic Arrays		7mins
	CPP Notes - Dynamic Memory Allocation		15mins

Space Time Complexity Analysis

13 Items | Duration : 1hrs

	01 Space Time Complexity Introduction		12mins
	02 Time Complexity Bubble Sort		4mins
	03 Time Complexity of Binary Search		2mins
	04 Time Complexity using Recurrence Method		4mins
	05 Time Complexity of Polynomial Evaluation		3mins
	06 Time Complexity in Recursion		6mins
	07 Time Complexity Exercise		4mins
	08 Space Complexity Introduction		6mins

	10 Space and Time Complexity - QuickSort		5mins
	CPP Notes - Time Complexity		15mins
	Quiz on Time and Space Complexity		15mins
	Quiz On Time And Space Complexity Answers		15mins

Object Oriented Programming Concepts

19 Items | Duration : 6hrs



	OOPS 1 - Introduction to Classes & Objects		11mins
	OOPS 2 - Data Members and Functions		12mins
	OOPS 3 - Getters and Setters		6mins
	OOPS 4 - Constructor and Parameterised Constructor		9mins
	OOPS 5 - Copy Constructor		9mins
	OOPS 6 - Shallow and Deep Copy		14mins
	OOPS 7 - Copy Assignment Operator		5mins
	OOPS 8 - Destructors		10mins
	OOPS 9 - Initialization List, Consts		9mins











	OOPS Codes		15mins
	CPP Webinar - OOPS Webinar Operator Overloading		55mins
	OOPS Webinar II - Vectors and C++ STL		1hrs
	CPP Notes - OOPs I : Class, Objects, Access Modifiers, Friend Class, Getters and Setters		15mins
	CPP Notes - OOPs III : Function Overloading and Operator Overloading		15mins

	CPP Notes - OOPS II : Constructors, Destructors, Const Data Members		15mins
	CPP Notes - OOPs IV		15mins
	MCQ - Object Oriented Programming		15mins
	MCQ - Object Oriented Programming Solution		15mins
	Quiz On Object Oriented Programming In C++		15mins

Generic Programming in C++

5 Items | Duration : 42mins






	Generic Programming with Templates		6mins
	STL Containers Introduction		6mins
	Iterators Introduction		6mins
	Iterators Example		8mins
	Comparator Class		15mins

Vectors

7 Items | Duration : 1hrs





















	Vectors 01 - Introduction		14mins
	Vectors 02 - Methods		13mins
	Vector 03 - Using Vector		7mins



















	Vector 04 - Car Sorting Problem		7mins
	Vector 05 - Container Design		13mins
	Vector 06 - Templates		4mins
	Quiz Vector STL		15mins

Linked Lists

23 Items | Duration : 3hrs



	Data Structures Introduction		3mins
	Linked List 01 - Introduction		6mins
	Linked List 02 - Insertion-I		14mins
	Linked List 03 - Insertion II		10mins
	Linked List 04 - Deletion		6mins
	Linked List 05 - Searching		5mins
	Linked List 06 - Taking Input		5mins
	Linked List 07 - Operator Overloading		10mins
	Linked List 08 - Reverse a Linked List		8mins

	Linked List 09 - Recursive Reverse a Linked List		12mins
	Linked List 10 - Mid Point Runner Technique		6mins
	Linked List 11 - Kth Node from the end		2mins
	Linked List 12 - Merge two sorted Linked Lists		7mins
	Linked List 13 - Merge Sort		7mins
	CPP - Linked List Floyd's Cycle		8mins
	Doubly Linked List Introduction		4mins
	Circular Linked List - Insertion		7mins
	Circular Linked List II - Delete Function		9mins

	CPP Notes on Linked List		15mins
	Forward List STL		3mins
	List STL - I		8mins
	List STL - II		6mins
	List STL Example - Adjacency List for Weighted Graph		10mins

Challenges - Linked Lists

11 Items | Duration : 5hrs



Stacks

10 Items | Duration : 1hrs



	Stacks 01 - Introduction		4mins
	Stacks 02 - Implementation using Vector		8mins
	Stacks 03 - Creating a Templated Class		4mins
	Stack STL		4mins
	Stacks 05 - Reverse Stack Using 1 Extra Stack		15mins
	Stacks 06 - Stack Reverse Using Recursion		15mins
	Stacks 07 - Balanced Parenthesis		15mins

	Stacks 08 - Stock Span Problem		15mins
	CPP - Stack - Histogram Area		15mins
	Min Max Stack		9mins

Challenges - Stacks

11 Items | Duration : 5hrs



Queues

12 Items | Duration : 1hrs



	Queue 01 - Introduction		7mins
	Queue 02 - Circular Queue using Array		7mins

	Queue 03 - Implementation Queue using Array		9mins
	Queue 04 - Queue using LinkedList		3mins
	Queue 05 - Implementation using Linked List STL		4mins
	Queue 06 - Using the STL Queue Class		3mins
	Queue 07 - First Non Repeating Character Problem		10mins
	Queue 08 - First Non Repeating Character Implementation		6mins
	Queue 09 - Stack using 2 Queues - I		6mins
	Queue 10 - Stack using 2 Queues - II		10mins
	Queue 11 - Using 2 Stacks for Queue		3mins

	Queue 11 - Using 2 Stacks for Queue		3mins
	Queue STL		3mins

Challenges - Queue

3 Items | Duration : 1hrs

Deque

3 Items | Duration : 41mins

	Deque Introduction		5mins
	Interview Problem - Maximum element Deque STL		19mins
	Interview Problem - Maximum Length Unique Character Substring Sliding Window		17mins











Binary Tree

20 Items | Duration : 3hrs



	CPP - Binary Tree - Introduction		5mins
	CPP - Binary Tree - Preorder Build and Print		13mins
	CPP - Binary Tree - Inorder and Postorder Traversal		7mins
	CPP - Binary Tree - Level Order Print Recursive		13mins
	CPP - Binary Tree BFS Traversal-I		8mins
	CPP - Binary Tree Level Order Traversal - II		8mins
	CPP - Binary Tree - Count and Sum Nodes		5mins
	CPP - Binary Tree - Diameter of Tree		12mins



	CPP - Binary Tree - Diameter of the Tree Optimized Approach		9mins
	CPP - Binary Tree Question - Sum Replacement		2mins
	CPP - Binary Tree Solution - Sum Replacement		5mins
	CPP - Binary Tree - Height Balanced Tree		10mins
	CPP - Binary Tree - Build Balanced Tree From Array		6mins
	CPP - Binary Tree - Build Tree from PreOrder and Postorder		13mins
	Binary Tree - Right View		9mins

	Binary Tree - Nodes at Distance K from Given Node		17mins
	Binary Tree - Implementation All Nodes at Distance K from given Node		10mins
	Binary Tree - Lowest Common Ancestor (LCA)		13mins
	Binary Tree - Maximum Sum Path From Any Node To Node		26mins
	Binary Tree - Shortest Distance Between Nodes Of A Binary Tree		7mins


















Binary Search Tree




12 Items | Duration : 1hrs











	CPP - Binary Search Tree - Introduction		6mins
	CPP - Binary Search Tree - Insertion & Build		11mins
	CPP - BST - Searching		5mins
	CPP - BST - Deletion		17mins
	CPP - BST - Check for BST		8mins
	CPP - BST to Sorted Linked List Convert / Flatten a Tree		15mins
	CPP - BST - Construct from Preorder		1mins
	DP - Catalan Number Concept		15mins

	Set STL Introduction		6mins
	Set STL Example		6mins
	Multiset STL		12mins
	Multiset for Custom Class		3mins
 Challenges - Trees 			
24 Items Duration : 12hrs			

Heaps 			
21 Items Duration : 3hrs			
	Heaps 01 - Introduction To Priority Queue		3mins
	Heaps 02 - Motivation for Priority Queue		8mins
	Heap 03 - What is a Heap?		7mins
	Heaps 04 - Heaps as Array		8mins
	Heaps 05 - Insertion		4mins
	Heaps 06 - Insertion Code		10mins
	Heaps 07 - Remove Min/Max Element		6mins
	Heaps 08 - Remove Min/Max Code		11mins

	Heaps 09 - Build Heap from Array in $N\log N$ (Concept)		17mins
	Heaps 10 - Build Heap from Array in $N\log N$ (Code)		5mins
	Heaps 11 - Build Heap from Array in $O(N)$ (Concept)		13mins
	Heaps 12 - Build Heap from Array in $O(N)$ (Code)		4mins
	Heaps 13 - Inplace HeapSort		10mins
	Heaps 14 - Priority Queue STL		6mins
	Heaps 15 - Functional Objects in C++		3mins
	Heaps 16 - Priority Queue for Custom Class		9mins
	Heaps 17 - Join the Ropes		8mins

	Heaps 18 - Running Median of a Integer Stream		15mins
	Heaps 19 - Implementing Running Median of a Integer Stream		11mins
	Heaps 20 - Merge K Sorted Arrays		18mins
	\$ Kth Smallest Element In Row And Col Wise Sorted Array Hint		7mins



Challenges - Heaps

5 Items | Duration : 2hrs



Hashing/ Hashtable

15 Items | Duration : 2hrs



	Hashtable 01 - Introduction		10mins
	Hashtable 02 - Hash Functions		14mins
	Hashtable 03 - Collision Handling/ Separate Chaining		6mins
	Hashtable 04 - Class Implementation		10mins
	Hashtable 05 - Insertion		7mins
	Hashtable 06 - Looking Inside		6mins
	Hashtable 07 - Rehashing & Load Factor		6mins
	Hashtable 08 - Rehash Implementation		10mins

	Hashtable 09 - Search and Erase Implementation		
	Hashtable 10 - Easy Access using [] Operator		7mins
	Maps STL		14mins
	Unordered Map STL		6mins
	Unordered Map - Hash Functions for Custom Class		12mins
	Unordered Map Example - Phonebook		6mins
	Map STL - Vertical Order Print		11mins

Challenges - Hashing

7 Items | Duration : 3hrs












Hashing Problems

10 Items | Duration : 2hrs



	Hashing 01 - Check Subarray With Sum Zero		8mins
	Hashing 02 - Length Of Longest Subarray With Sum Zero		12mins
	Hashing 03 - Longest Subarray With Sum K		11mins
	Hashing 04 - Longest Consecutive Subsequence - I		5mins
	Hashing 05 - Longest Consecutive Subsequence-II (Unordered Map) 		21mins
	Hashing 06 - Longest Consecutive Subsequence-III (Unordered Set) 		13mins











	Minimum Window Substring Concept (Sliding Window) ★		14mins
	Minimum Window Substring (Sliding Window) ★		21mins
	Hashing - Right Angled Triangles		7mins
	Hashing - Rectangle Counting 		18mins

Tries & Problem Solving

















5 Items | Duration : 1hrs
























	Trie Data Structure		19mins
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	Trie 02 - Unique Prefix Array		8mins
	Trie 03 - Max XOR Pair		12mins
	Trie 04 - Max Xor Pair Implementation		17mins
	Trie 05 - Subarray With Maximum Xor		5mins
 Challenges - Tries 			
4 Items Duration : 2hrs			

Greedy Algorithms 			
18 Items Duration : 3hrs			
	Greedy 01 - Introduction		10mins
	Greedy 02 - Indian Coin Change Code		4mins
	Greedy 03 - BusyMan / Activity Selection Concept		5mins
	Greedy 04 - BusyMan / Activity Selection Code		7mins
	Greedy 05 - Connecting Wires		5mins
	Greedy 06 - Biased Standing Concept		8mins
	Greedy 07 - Biased Standing Code		5mins
	Greedy 08 - Load Balancer		18mins
	Greedy 09 - Load Balancer Code		6mins
	Greedy 10 - Kingdom Defense Concept		8mins

	Greedy 11 - Kingdom Defense Code		5mins
	Greedy 12 - Chopsticks		5mins
	Greedy 13 - Expedition Spoj		14mins
	Greedy 14 - Expedition Code (Hard)		18mins
	\$ Codeforces 564A Greedy		18mins
	Notes - Greedy Algorithms		15mins
	Quiz On Greedy Algorithm		15mins
	Greedy Algorithms Quiz - II		15mins

 Challenges - Greedy Algorithms			
7 Items Duration : 3hrs			
Number Theory Basics			
11 Items Duration : 2hrs			
	Prime Sieve Eratosthenes Sieve		21mins
	Prime Visits - Prime Sieve Problem		9mins
	Prime Factorisation (using Sieve)		9mins
	Prime Factorisation (using optimised trial divisions)		15mins
	Counting Divisors (using sieve)		6mins

 Large Prime Check (using sieve)		6mins
 GCD - Euclid's Algorithm		10mins
 Modulo Properties		4mins
 Divisible Subarrays		18mins
 Counting Problems - Inclusion Exclusion Principle		5mins
 Inclusion Exclusion Concept + Implementation		26mins

Challenges - Number Theory Basics

















5 Items | Duration : 2hrs




































Dynamic Programming



















35 Items | Duration : 7hrs



 DP - Introduction to Dynamic Programming		13mins
 DP - Fibonacci Recursion & Call Stack		12mins
 DP - Top Down DP Fibonacci Implementation		8mins
 DP - Bottom Up Fibonacci DP & Space Optimisation		8mins
 DP - Min Steps to One		11mins
 DP - Minimum Steps Top Down [Code]		8mins
 DP - Minimum Steps Bottom Up [Code]		6mins
 DP - Minimum Coin Change		20mins

	DP - Coin Change Top Down [Code]		
	DP - Coin Change Bottom Up [Code]		9mins
	DP - Wines Problem Top Down		11mins
	DP - Wines Problem Bottom Up Approach		13mins
	DP - Wines Problem [Code]		10mins
	1DP - Maximum Subarray Sum		14mins
	1DP - Maximum Subarray Sum Space Optimisation		4mins
	1DP - Ladders Top Down		17mins
	1DP - Ladders Bottom Up		5mins

	1DP - Ladders Optimised Approach		12mins
	Rod Cutting Problem (Recursion + Bottom Up DP) 		15mins
	LCS (Recursion & TopDown Approach)		15mins
	LIS - 1		16mins
	LIS - 2		4mins
	LIS - 3		28mins
	LIS - 4		6mins

	LIS - 5		5mins
	MDP - Matrix Chain Multiplication		38mins
	MDP - Matrix Chain Multiplication - InterviewBit [Code]		5mins
	Advanced DP : Cell Mitosis, HackerBlocks		15mins
	Advanced DP : Mixtures, Spoj		19mins
	CPP Dynamic Programming - Friends Pairing Problem		5mins
	DP - Catalan Number Concept		15mins
	Dynamic Programming - Optimal Game Strategy		8mins
	Grid DP 01 - Minimum Cost Path		9mins

	Grid DP 02 - Rat & Elephant Ways		12mins
	Grid DP 03 - Robot Paths, Codechef		16mins



















Challenges - Dynamic Programming















17 Items | Duration : 8hrs

Graph Algorithms

39 Items | Duration : 9hrs


















	Graphs Introduction		8mins
	Graphs Representation ..		15mins
	Graphs Adjacency List Implementation		8mins








	Graphs Adjacency List Implementation for Generic Data		11mins
	Graphs Breadth First Search		14mins
	Single Source Shortest Path using BFS Graphs		15mins
	Snakes and Ladder BFS-SSSP Problem Graphs		19mins
	Depth First Search in Graphs		11mins
	Connected Components using DFS Graphs		8mins
	DAG's Topological Sort Using DFS Graphs		12mins
	Topological Sort Using BFS Graphs		12mins
	Undirected Graph is a Tree or Not		10mins

	Cycle Detection in Directed Graph using DFS		10mins
	Cycle Detection Undirected Graph using DFS		11mins
	Flood Fill Algorithm		14mins
	Dijkstra's Algorithm Shortest Path on Weighted Graphs		15mins
	ICPC Trip - Interesting Graphs Problem!		13mins
	DSU 01 - Introduction to Disjoint Set Union		5mins
	DSU 02 - Union & Find Operations		9mins

DSU 03 - Union Find PseudoCode & Complexity		
DSU 04 - Cycle Detection & Implementation	🔒	13mins
DSU 05 - Path Compression Optimisation	🔒	8mins
DSU 06 - Union by Rank Optimisation	🔒	10mins
DSU 07 - Dry Run Analysis	🔒	13mins
DSU 08 - Pairing Problem	🔒	14mins
Graphs - Kruskal's Concept ★	🔒	16mins
Graphs - Kruskal's Code ★	🔒	13mins
Graphs - Prim's Code ★	🔒	18mins

Graphs - Prim's Concept ★	🔒	19mins
Bellman Ford Algorithm Concept <small>NEW</small> ★	🔒	40mins
Bellman Ford Algorithm Code ★ <small>NEW</small>	🔒	9mins
Floyd-Warshall Algorithm ★ <small>NEW</small>	🔒	29mins
Floyd-Warshall Code ★ <small>NEW</small>	🔒	8mins
DP with Bitmasks : Travelling Salesman Problem (2-d DP)	🔒	30mins
Holiday Accomodation-I Concept	🔒	21mins

	Holiday Accomodation-I Concept		21mins
	Holiday Accommodation - II Implementation		15mins
	Bipartite Graph Check 		21mins
	Strongly Connected Components (Kosaraju's Algorithm)  		15mins
	Strongly Connected Components(Kosaraju's Code)  		10mins
 Challenges - Graph			
10 Items Duration : 5hrs			

Real Life Project - Sudoku (JS)			
4 Items Duration : 44mins			
Real Life Example - Splitwise Algorithm Design			
4 Items Duration : 43mins			
String Matching Algorithms [Optional]			
11 Items Duration : 1hrs			
Interactive Problems [Optional]			
4 Items Duration : 1hrs			
Policy Based Data Structures [Optional]			
4 Items Duration : 52mins			
Recent Webinars [Optional]			
15 Items Duration : 4hrs			
C++ E-Book and Extra Questions			
7 Items Duration : 1hrs			

Top Interview Questions Lists

5 Items | Duration : 1hrs



Student Interview Experiences

9 Items | Duration : 2hrs

