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		Left shift and Right shift	
		Trick to divide or multiply any number. Bitwise NOT, Bitwise AND, Bitwise OR	
		Bitwise NOT, Bitwise AND, Bitwise OR	
	Play with Bits / Bit Manipulation		https://youtu.be/wGrEXbLQX1k
		Find the i-th Bit	
		Set the i-th Bit Toggle the i-th Bit	
		Unset the i-th Bit	
		Print the number in binary without conversion	
		Find if a number is even / odd using bit manipulation	
		Find if a number is power of 2.	
		Count the number of set bits.	
		Unset the right most set bit.	
	Bit Manipulation		https://youtu.be/UTVvLfkuSEs
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		Bit Manipulation	
		Bit Masking	
		Advanced XoR problems of Bit Manipulation	
Arrays	Arrays in Java		https://youtu.be/TsoTexsJWII
		what are arrays	
		concept of indexing	
		Insert, update, delete, traverse	
		How arrays work in memory	
		what is a sorted array	
		How to create a 2d array Operations on functions	
		Operations on functions Jagged Array	
		passing arrays to functions	
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		Linear Search	
		Q. search an Element / first occurrence Q. Find the minimum element in an array (1D/2D)	
		Q. Find the maximum element in an array (1D/2D)	
		Q. Find max sum 1D array in a 2D array	
		Q. Search all occurrences (1D/2D)	
		Q. Search last occurrence (1D/2D)	
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		Sorted in decreasing	
		Order Agnostic Binary Search	
	Questions on Binary Search Part 1		https://youtu.be/P-vl_BrdxJA
		Q1. Ceiling of a Number	
		Q2. Floor of a Number	
		Q3. First and Last Position of element in sorted array	
		Q4. Count all occurrence of element in an array Q5. Next smallest letter in sorted array	
	Questions on Binary Search Part 2	Q5. Next smallest letter in sortea array	https://youtu.be/DoVawmdh5NM
	Questions on binary search varie	Binary Search in range	nttps://youtu.bc/boodwindisiewi
		Q6. Find Minimum Difference in a Sorted array.	
		Q7. Find an element in an array of Infinite size	
		Q8. Find first 1 in an infinite and sorted array of 0s and 2	
	Questions on Binary Search Part 3		https://youtu.be/_MsDtDHEDtA
		Bitonic Array	
		Q9. Find pivot in bitonic array Q10. search in bitonic array	
	Questions on Binary Search Part 4	Q10. Search in bitomic array	https://youtu.be/n12QcCu8oBI
	Questions on binary search rate 4	Sorted and Rotated Array (Clockwise and Anticlockwise)	
		Q11. count number of rotations	
		Q12. search in rotated sorted array (with and without a	luplicates)
		Q13 Find min / max (peak) element in rotated and sorte	
	Questions on Binary Search Part 5		https://youtu.be/_4LmUWmmYbY
		Q14. Allocated minimum number of pages	
		Q15. Capacity to Ship within D Days	
	Q16. Koko Eating bananas		https://youtu.be/BUFHoQIOnAs
	Q17. Smallest Divisor given a threshold		https://youtu.be/pSGtbhpuhbk
	Q18. Minimize Maximum of products distributed to any	store	https://youtu.be/406wrTtUQvY
	Q19. Aggressive cows		https://youtu.be/86xSPxfc4iQ
	Q20. Median of two sorted arrays		https://youtu.be/2BOgAlmyTkc
	Q21. Kth element of two sorted arrays		https://youtu.be/SB6j8D95eHM
	Questions on Binary Search Part 6		https://youtu.be/f09DayNeigg
		Q22. Single Element in a Sorted Array	
		Q23. Finding square root	
		Q24. Count Squares	
	Other Searching Algorithms		https://youtu.be/rFwBm-VT99A
		Jump Search	
		Interpolation Search	
		Exponential Search Ternary Search	
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	Q. Median of a Sorted Matrix		https://youtu.be/aNIfGl1ZKQE
	Q. Kth Smallest element of a Matrix		https://youtu.be/HuOcDIB1uXk
<i>Matrix</i>	Questions on Matrix - 1		https://youtu.be/EXcmeMx3Dq0
		Q. Search in a row wise and column wise sorted Matrix	
		Q. Search in a sorted matrix	
	Questions on Martrix 2		https://woutu.ha/hA .mitCnica
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		Q. Transpose a Matrix Q. Rotate a Matrix by 90 degree clockwise	
		Q. Rotate a Matrix by 90 degree clockwise Q. Rotate a Matrix by 90 degree anticlockwise	
	Questions on Matrix - 3		https://youtu.be/uAaoWcYX2_8
		Q. Spiral Matrix - 1	
		Q. Spiral Matrix - 2	

ime & Space Complexity			
	Time and Space Complexity		https://youtu.be/ZltvAvQXIEo
		What is Algorithm Complexity	
		Asymptotic Notations	
		Time Complexity	
		Space Complexity	
		Big Oh cheat sheet.	
		How to calculate time complexity	
		Algorithm optimizations	
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	Bubble Sort and Brick Sort		https://youtu.be/vXwKKzn6D4E
	Counting Sort		https://youtu.be/e644HVGFAJY
	Radix Sort		https://youtu.be/HuwgdPVEwCc
	Pigeonhole Sort		https://youtu.be/sWX1eMPYzSU
	Cyclic Sort		https://youtu.be/vJn71L7CPH4
	Q. Find missing element in range of 0 to N		https://youtu.be/bIHpx5NN2bg
	Q. Given an array [1 to N] return all elements in range [[1 to N] that are absent in the array	https://youtu.be/xxFebE0VznM
	Questions on Duplicate Numbers		https://youtu.be/Us63C10ozzw
		Q. Find the duplicate Number in an array [1 to N] (inclus	sive)
		Q. Given an array [1 to N] with elements appearing once	
	Q. Find the missing and repeating element in an array [TBD
	Q. Return the smallest positive number missing	2.10.11	TBD
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ing Manipulation	Strings in Java		https://youtu.be/aqjGYjtczvY
-		characters	
		string literals	
		string interus string constant pool	
		subsequences	
		substrings	
		String comparison	
		String with new operator	
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	More on Strings	0.1.0.11	https://youtu.be/rXSUJ-PwU4g
		String Builder	
		String Buffer	
		Next vs NextLine	
		Taking string as a user input	
		compareTo function	
		trim function	
		split function	
		startsWith function	
		endsWith function	
		IndexOf function	
		lastIndexOf function	
		charAt function	
		toLowerCase function	
		toUpperCase function	
		toCharArray function	
	Playing with String		https://youtu.be/SrPyIYakYt8
		Input Buffer and delimeters	
		String formatting	
		String Concatination	
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	Q. Print all substrings		https://youtu.be/I1rgYRi1tXE
	Q. Reverse a string		https://youtu.be/m9QAjIVnmp4
	Q. Check if a string is pallindrome		https://youtu.be/-HGtMO4MkWs
	Q. Reverse words in a String		https://youtu.be/KhNAMB3jDOU
	Q. Check if two strings are anagram		https://youtu.be/SFF3ND7TPc0
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ack	Q. Reverse Words in a String -iii		https://voutu.be/TpuOWpma7ua
nck		Stack	https://youtu.be/TpuQWpma7ug
nck	Q. Reverse Words in a String -iii	Stack Stack using Arrays	https://youtu.be/TpuQWpma7ug
ock	Q. Reverse Words in a String -iii Stack Data Structure	Stack Stack using Arrays	
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis		https://youtu.be/CNOoP25NpfQ
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string		https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6w5dP VGw
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string		https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6wSdPlVGw https://youtu.be/BNFBv1KtcDM
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string		https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6wSdPjVGw https://youtu.be/BNFbvLKtcDM https://youtu.be/RZTapGf3pzI
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string		https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6wSdPJVGw https://youtu.be/BNF8V1KtcDM https://youtu.be/RZTopGf3pz! https://youtu.be/U48N2spB8DE
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string		https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6w5dPlVGw https://youtu.be/BNFBv1KtcDM https://youtu.be/RTTapGj3pzl https://youtu.be/U48kDsqb8OE https://youtu.be/OtddlksWtS4
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string		https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6wSdPJVGw https://youtu.be/BNF8V1KtcDM https://youtu.be/RZTopGf3pz! https://youtu.be/U48N2spB8DE
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision		https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6wSdPlVGw https://youtu.be/BNFBv1KtcDM https://youtu.be/R3Tap6f3pzl https://youtu.be/U48xDsqb8OE https://youtu.be/OIddlksW1S4 https://youtu.be/1_Bbq5qOraY
ock	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision Q. Stock Span Problem Q. Next Greater element		https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6w5dPlVGw https://youtu.be/BNFBv1KtcDM https://youtu.be/RTTapGj3pzl https://youtu.be/U48kDsqb8OE https://youtu.be/OtddlksWtS4
nck	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision Q. Stock Span Problem Q. Next Greater element Q. Next Smaller element		https://youtu.be/CNOoP25NpfQ https://youtu.be/BFBVWSdP)VGW https://youtu.be/BFBVKCDM https://youtu.be/BFBVKCDM https://youtu.be/DLP8Npd8DE https://youtu.be/U48Npd8DE https://youtu.be/OtddlksWtS4 https://youtu.be/Bp3e34EgVYY https://youtu.be/8P3e34EgVYY https://youtu.be/MQQchOMmTGY
ock	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision Q. Stock Span Problem Q. Next Greater element Q. Next Greater element Q. Next Greater of Smaller element in circular array	Stack using Arrays	https://youtu.be/CNOoP25NpfQ https://youtu.be/F86wSdPlVGw https://youtu.be/BNFBv1KtcDM https://youtu.be/BNFBv1KtcDM https://youtu.be/LV48xDsqb8OE https://youtu.be/OtddlksWIS4 https://youtu.be/OtddlksWIS4 https://youtu.be/Bp2s4XEqVY https://youtu.be/MpQcDOMmTGY https://youtu.be/MqQcDOMmTGY https://youtu.be/MqAcDOMmTGY
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision Q. Stock Span Problem Q. Next Greater element Q. Next Greater / Smaller element in circular array Q. Largest Rectangle in Histogram + Previous smaller ele	Stack using Arrays	https://youtu.be/CNOoP25NpfQ https://youtu.be/FB6wSdPjVGw https://youtu.be/BNFDv1KtcDM https://youtu.be/BNFDv1Gp21 https://youtu.be/OtdGlSwY54 https://youtu.be/OtdGlSwY54 https://youtu.be/OtdGlSwY54 https://youtu.be/DB6p3GOrOY https://youtu.be/MP3e34EqVyY https://youtu.be/MP3e34EqVyY https://youtu.be/Mp3chOmmTGY https://youtu.be/ahlaB14gG15 https://youtu.be/ahlaB14gG15
ack	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision Q. Stock Span Problem Q. Next Greater element Q. Next Smaller element Q. Next Greater / Smaller element in circular array Q. Largest Rectangle in Histogram + Previous smaller el Q. Max Rectangle	Stack using Arrays	https://youtu.be/CNOoP25NpfQ https://youtu.be/BFBVSdPJVGw https://youtu.be/BFBVKtCDM https://youtu.be/BFBVKtCDM https://youtu.be/U48N5ap880E https://youtu.be/U48N5ap880E https://youtu.be/OIddlksWtS4 https://youtu.be/OIddlksWtS4 https://youtu.be/BP3e34EqVYY https://youtu.be/BP3e34EqVYY https://youtu.be/MqQchOMmTGY https://youtu.be/duls-DquBCDBUdfj4 https://youtu.be/qUS-DZUdfj4 https://youtu.be/DPRDmhCyyuc
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	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision Q. Stock Span Problem Q. Next Greater element Q. Next Smaller element Q. Next Greater / Smaller element in circular array Q. Largest Rectangle in Histogram + Previous smaller el Q. Max Rectangle Q. Longest Valid Parentheses	Stack using Arrays	https://youtu.be/CNOP25NpfQ https://youtu.be/FB6wSdPjVGw https://youtu.be/BNFBV1KtCDM https://youtu.be/DNFBV1KtCDM https://youtu.be/OLdBNSpaB8DE https://youtu.be/OLdBNSpaB8DE https://youtu.be/OLddlksW1S4 https://youtu.be/BB2843EqVYY https://youtu.be/BB2843EqVYY https://youtu.be/MQChOMmTGY https://youtu.be/MalaB14gG1s https://youtu.be/quSpaB81B1 https://youtu.be/gdSpaB4B1 https://youtu.be/gdSpaB4B1 https://youtu.be/DPkDmhCyyuc https://youtu.be/DPkDmhCyyuc https://youtu.be/gdqQsbdTcey0
	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision Q. Stock Span Problem Q. Next Greater element Q. Next Smaller element Q. Next Greater / Smaller element in circular array Q. Largest Rectangle in Histogram + Previous smaller el Q. Max Rectangle	Stack using Arrays	https://youtu.be/CNOoP25NpfQ https://youtu.be/BFBVSdPJVGw https://youtu.be/BFBVKtCDM https://youtu.be/BFBVKtCDM https://youtu.be/U48N5ap880E https://youtu.be/U48N5ap880E https://youtu.be/OIddlksWtS4 https://youtu.be/OIddlksWtS4 https://youtu.be/BP3e34EqVYY https://youtu.be/BP3e34EqVYY https://youtu.be/MqQchOMmTGY https://youtu.be/duls-DquBCDBUdfj4 https://youtu.be/qUS-DZUdfj4 https://youtu.be/DPRDmhCyyuc
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	Q. Reverse Words in a String -iii Stack Data Structure Q. Check parenthesis Q. Remove minimum brackets to balance string Q. Add minimum brackets to balance string Q. Swap minimum brackets to balance string Q. Swap adjacent brackets to balance string Q. Asteroid Collision Q. Stock Span Problem Q. Next Greater element Q. Next Smaller element Q. Next Greater / Smaller element in circular array Q. Largest Rectangle in Histogram + Previous smaller el Q. Max Rectangle Q. Longest Valid Parentheses	Stack using Arrays lement Queue Queue using Array Circular Queue	https://youtu.be/CNOP25NpfQ https://youtu.be/FB6wSdPjVGw https://youtu.be/BNFBV1KtCDM https://youtu.be/DNFBV1KtCDM https://youtu.be/OLdBNSpaB8DE https://youtu.be/OLdBNSpaB8DE https://youtu.be/OLddlksW1S4 https://youtu.be/BB2843EqVYY https://youtu.be/BB2843EqVYY https://youtu.be/MQChOMmTGY https://youtu.be/MalaB14gG1s https://youtu.be/dalB1b1b2f1sb1ftps://youtu.be/GUS-D2Ufija https://youtu.be/DPkDmhCyyuc https://youtu.be/DPkDmhCyyuc https://youtu.be/DPkDmhCyyuc
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		Time Complexity of ArrayList LinkedList & its functions							
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		Queue using ArrayDeque							
		Deque Interface using ArrayDeque & LinkedList							
		PriorityQueue Implementation of Queue							
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		Hashing Concept							
		How Map uses Hashing Concept HashMap & its functions							
		How to traverse a Map using Entry Interface							
		Map using LinkedHashMap							
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		BST							
		Self Balanced BST or Red-Black Tree TreeMap & its functions							
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		HashSet							
		How HashSet works Internally							
		LinkedHashSet							
		TreeSet							
Two Pointers	Q. Container with Most Water		TBD						
	Q. Trapping Rainwater		TBD						
	Q. Find Pair with a given sum in sorted Array Q. Remove Duplicates from Sorted Array		TBD TBD						
	Q. Maximum Consecutive ones		TBD						
	Q. Reverse Pairs		TBD						
			TBD						
	Q. The Celebrity Problem								
	Q. The Celebrity Problem								
	Q. The Celebrity Problem								
	Q. The Celebrity Problem								
Prograin		aluvian with function cells							
Recursion	Q. The Celebrity Problem Recursion - I	playing with function calls Types of recursion							
Recursion		Types of recursion							
Recursion		Types of recursion Q. convert decimal to binary Q. reverse a number / string							
Recursion		Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace							
Recursion		Types of recursion Q. convert decimal to binary Q. reverse a number / string							
Recursion	Recursion - I	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack							
Recursion		Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith							
Recursion	Recursion - I	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi							
Recursion	Recursion - I	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith							
Recursion	Recursion - I	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi							
Recursion	Recursion - I Recursion - II	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation							
Recursion	Recursion - I Recursion - II	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick							
Recursion	Recursion - I Recursion - II	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - I							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - I Q. Combination Sum - II Q. Combination Sum - III							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - I							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants Backtracking with Pruning	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - II Q. Combination Sum - III							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - I Q. Combination Sum - II Q. Combination Sum - III							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants Backtracking with Pruning	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - II Q. Combination Sum - III Q. Combination Sum - III Q. Combination Sum - III Q. Combination Sum - IV Q. Number of islands Q. Knights tour problem Q. N Queens problem Q. N Queens problem							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants Backtracking with Pruning	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - II Q. Combination Sum - III Q. Number of islands Q. Knights tour problem							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants Backtracking with Pruning	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - II Q. Combination Sum - III Q. Combination Sum - III Q. Combination Sum - III Q. Combination Sum - IV Q. Number of islands Q. Knights tour problem Q. N Queens problem Q. N Queens problem							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants Backtracking with Pruning	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - II Q. Combination Sum - III Q. Combination Sum - III Q. Combination Sum - IV Q. Number of islands Q. Knights tour problem Q. N Queens problem Q. N Queens problem Q. Suduko Solver							
Recursion	Recursion - I Recursion - II Time and Space Complexity Analysis Backtracking and All it's variants Backtracking with Pruning More Questions on Backtracking	Types of recursion Q. convert decimal to binary Q. reverse a number / string Q. reverse an array inplace Q. reverse a stack Leap of Faith Q. Tower of Hanoi Q. Count ways in a Matrix Notations Recurrence Relation Trick Q. Rat in a Maze Q. All permutations Q. Pallindrome Partitioning Q. Letter Combination of a Phone Number Q. Print Subdequences of a String Q. Subsequences with sum equal K Q. Combination Sum - I Q. Combination Sum - II Q. Combination Sum - III Q. Combination Sum - IV Q. Number of islands Q. Knights tour problem Q. N Queens problem Q. Suduko Solver Q. Josephus problem - Kill in circle							

		Q. Merge Sort	
		Q. Quick Sort	
		Q. Count Inversion	
		Strassen's Matrix Multiplication	
Linked List	Linked List Data Structure		https://youtu.be/cf4RNGYI6hk?si=aY6v4j2CUzgaPlpm
		Intro to linked list Data Structure	
		Types of linked list	
		All operations of Single linked list	
		Time Complexity	
		Applications of linked list	
		Implementation of linked list data structure	
	Doubly Linked List		https://youtu.be/JxIC0XeTI4Y?si=5HZNJ -u8lqktXam
	Doubly Linked List	Intro to Doubly linked list	Inteps.// youtu.be/jarcoxe1141 : si-3H210uoiqktxuiii
		All operations and their time complexity	
		Implementation of linked list	
		Implementation of mixed list	
	Q. Find Middle of Linked List (Hare Tortoise Algorithm)		https://youtu.be/NUbqd8-IHI4?si=gByqGlulWwtiPV
	Q. Delete Middle of Linked list		https://youtu.be/uLlJJHpq7hw?si=Fm2c_sOMqUx5QPqP
	Q. Pairwise swap nodes of Linked List		https://youtu.be/92f3L2p31Oc?si=oyC441Kt3bph4ZCZ
	Q. Add two numbers using Linked List		https://youtu.be/OgSnJa9pDk0?si=fRMC6sMYZcrkZr07
	Q. Reverse the linked list (Iterative + Recursive)		https://youtu.be/6GkwvqS9Cq4?si=gGSvqdH_iCcl3a_K
	Q. Palindrome linked list		https://youtu.be/uXB8S875uyw?si=JVxHNQHRKatVgKPy
	Q. Detect Cycle in a linked list		https://youtu.be/6VRgzaOT2G0?si=Tx8_Z5poHSB09yyd
	Q. Segregate a linked list into odd and even list		https://youtu.be/EqsLvheH5fA?si=-GLAb-yfSnpr3oFc
	Q. Reverse Nodes in K Group		https://youtu.be/zsuqutkRYcs?si=7bmdLeSN25CvQwve
	Q. Remove Nth node from the end of linked list		https://youtu.be/XLPiw Dz5-A?si= dkqHPvLViq4yrFR
	Q. Sort a linked list of 0's, 1's and 2's		https://youtu.be/c2C4lbstw1w?si=hG4blZtDKCcPpg5e
	Q. Intersection of two Sorted linked list		https://youtu.be/19unN7dz54A?si=KiqIImUyRioMkqhU
	Q. Intersection of two sorted linked list		https://youtu.be/qw0ZKmP-GTk?si=hLR5f5AShqMgMBdE
	Q. Insert in a sorted list		https://youtu.be/wa4fTaf3qSw?si=Iu6oK0TRh503HGk0
	Q. Insert in a sorted list Q. Insertion Sort on Linked List		https://youtu.be/fzx8CWqbxxI?si=LB1C44XQCKC9T9JU
	Q. Insertion Sort on Linked List Q. Merge Sort on Linked List		
			https://youtu.be/13UkRumpqZw?si=uw-eXXBmA6YeHaFu
	Q. Split a circular linked list into two circular lists		https://youtu.be/dBxiAxuT2I8?si=utMWpF083dismeIJ TBL
	Q. Clone a linked list with random and next pointer		IBL
String Manipulation	Q. Longest Pallindrome		TBD
	Q. Find all Anagrams		TBD
	Q. K-Anagrams		TBD
	Q. Roman to Integer		TBD
	Q. First Repeated word in a string		TBD
	Q. Isomorphic String checker		TBD
	Rabin Karp Algorithm		TBD
	KMP Algorithm		TBD
	LPS Algorithm		TBD
	LF3 Algoritim		150
Hashing	Hashing		https://youtu.be/vB3WKXNH-v4?si=oAOjWmxgCLXQvjC2
		Components of Hashing	
		How hashing works?	
		Types of Hash Functions	
		Collisions	
		Collision Resolution Techniques - Separate chaining	
		Collision Resolution Techniques - Open Addressing	
		Load Factor	
		Rehashing	
		Applications and Advantages	
	Hashmap Data Structure		https://youtu.be/CMA0MQQ3jhA?si=qi9VRUEUv4Rldbv2
	.,	What is hashmap?	
		How to use custom key-value pair	
		,	
	Implement HashMap in Java		https://youtu.be/B4VukYcQG_E?si=D4bP5zpwtOFPzNQM
		All Methods	
		Hashcode function	
		Rehashing	
	Q. Most frequent element in an array		https://youtu.be/O5iUfFHxCZc?si=wKCy3r5x7hglDEib
	Q. Check if an array is subset of another array		https://youtu.be/V4hi-l-xNXU?si=LMEB14_uTicW-6vM
	Q. Count Pairs with given sum		https://youtu.be/NC9r8D2QnHk?si=nWVnSK7h3P9V8k7u
	~ · · · · · · · · · · · · · · · · · · ·		
	Hashset Data Structure		https://youtu.be/3euKVlloIWY?si=Uvz3qkcdHLllsnbX
		what is hashset data structure	
		Usage of map keys	
		Set Iterator	
			// / //
	Q. Minimum number of subsets with distinct elements		https://youtu.be/h6jzp9waCyk?si=GTIG-0HGVxzwzuvK
	Questions on K-SUM Subarray Pattern		https://youtu.be/S6tARGbBGEo?si=7wRtd-jYnSdHRYmk
		Q. Check if subarray with K sum Exists or Not	
		Q. Find the starting and ending index of K sum subarray	,
		Q. Find the maximum length subarray with K sum	
		Q. Find the minimum length subarray with K sum	Homework
		Q. Count the total subarrays with sum K	
		Q. Find largest subarray with 0 sum	Homework
	O Languet subgroup with and distrible but		https://worth.ho/102d0aThs:102-1-4TEU04000-201151
	Q. Longest subarray with sum divisible by K		https://youtu.be/L03d0qThnJQ?si=1TEHDMBGaDGVeElr
	Q. Longest increasing concecutive subsequence		https://youtu.be/4ohND5Hq-wQ?si=-Rdz-tpJZ4W1ke-g
	Q. Count distinct elements in every window of size K		TBD
	Q. Largest subarray with equal number of 0s and 1s		https://youtu.be/qOCuB-IC9KA?si=NEEgvm_zlI-dvSm_
	Q. Find pairs with given sum such that elements of pair	are in different rows	TBD
	Bucket Sort Algorithm		https://youtu.be/5Pe3YSnqGh8?si=8cnivpNvhCX6X0hf
Sliding Window	Sliding Window Technique		https://voutu.he/DOMyn7TS2RI2si-IMM bel+1fM/DV-1
znang window			
Sliding Window	Sliding Window Technique Q. Maximum Sum Subarray of Size K Q. First Negative Number in Each Subarray of Size K Q. Chocolate Distribution Problem		https://youtu.be/OQMxpTTS28l7si=WN_kslt1fWPXuIn https://youtu.be/FGI2Z6fuAas?si=t3JH4diL-nDnBwGe https://youtu.be/Rot0y4cmlNw?si=TAp7sbW1OOQkW: https://youtu.be/oYNU1TD9WSY?si=1rn_BiF9-LIJDwcH

	Q. Smallest subarray with sum greater than x		https://youtu.be/UXValb-h70s?si=VaCxJsB7-WKbL4nW			
	Q. Longest Substring with K unique Elements		https://youtu.be/Yp3T06_27MY?si=GUuisgzt8fXO5gF6			
	Q. Longest Substring without repeating elements		https://youtu.be/Vgo7tvBm8OU?si=fxl1Ggsz3C_sMllj			
	Q. Count Occurances of Anagrams		https://youtu.be/PVXVsSkItpY?si=0zBiqLK0x9yzN85K			
	Q. Minimum Window Substring		https://youtu.be/26E3K8Njm7M			
	Q. Sliding Window Maximum		https://youtu.be/jOoZuTrfpjc			
Trees	Linear and Non Linear Data Structures		https://youtu.be/jeQ_B7-nihM			
rices	Enical and Non Enical Data Structures	Linear Data Structure	nttps://youtu.bc/jcg_b/-mmv			
		Non Linear Data Structure				
		Tion Linear Bata Structure				
	Intro to Tree Data Structure		https://youtu.be/qfHkWUl1zlc?si=Z1PWfLJg3e8wL6GC			
		What is a tree Data Structure.				
		Types of trees.				
		Binary Trees.				
		N-ary Trees.				
		Ternary Trees.				
		Non Linear Data Strcuture.				
		Hierarical Data Structure.				
		Properties of a Tree Data Structure.				
		Neighbour in Tree.				
		Siblings in Tree.				
		Cousin in Tree.				
		Depth of a Tree.				
		1Height of a Tree.				
		Child of a node in tree.				
		Parent of a node in tree.				
	Troo Traveral BEC		https://www.ho/ANTMOVDLV642-i			
	Tree Traversal BFS		https://youtu.be/4NZV0XBbKfA?si=wn_pcNP-I7dmDcXA			
	BFS on N-Ary Trees		https://youtu.be/4NZV0XBbKfA?si=wn_pcNP-I7dmDcXA			
	Tree Traversal DFS - Recursive		https://youtu.be/aQKJ9juD87k?si=Gou7Ob0zLS2xOoU2			
	Preorder Iterative Inorder Iterative		https://youtu.be/Tp2kzBlunWk?si=LYmDgBNvOFJogvt1			
			https://youtu.be/-VzRxq3Jwp4?si=8XJFCAnFCXWss35l			
	Postorder Iterative		https://youtu.be/xEPe6aWIRd0?si=rRWVNq5RgT8w926e			
	Q. Construct tree using inorder and postorder.		https://youtu.be/uDuOuMcSHwo?si=8bymVQfdrdovJIml			
	Q. Maximum Depth of Binary Tree		https://youtu.be/zbZEcUV0t7k?si=iyca3V-SbEKcEthY			
	Q. Maximum Depth of N-Ary Tree	O Size of Ringry Tree	https://youtu.be/Mehu7yep3ag?si=jVmAzUOxVZRD-JYV			
	Q. Diameter of Binary Tree	Q. Size of Binary Tree	https://youtu.be/Dt-U4vzYDTM?si=NdWKcECHM7PslySR			
	Q. Diameter of N-ary Tree		https://youtu.be/mPTJyH6Qs4c?si=vBK8aPbfmdQjYs8f			
	Q. Count number of node in compete Binary Tree		https://youtu.be/1m3F7zEW9qc?si=YI6cXSo8StZmYUAY			
	Q. Left and Right View of Binary Tree		https://youtu.be/JgRsVsw_ZSw			
	Q. Top and Bottom View of Binary Tree		https://youtu.be/zbA4yWuEoYE			
	Q. Vertical Order Traversal of Binary Tree		https://youtu.be/X-XLc_jOmHE			
	Q. Boundary Traversal of Binary Tree					
	Q. ZigZag Level Order Traversal of Binary Tree					
	Q. Balanced Binary Tree	https://youtu.be/PPD2X52uzMc				
	Q. Lowest Common Ancestor of Binary Tree (LCA)	https://youtu.be/m9NKcTvrhSc				
	Introduction to Binary Search Tree	https://youtu.be/WikD4AEvRq0				
	Delete a Node in BST	https://youtu.be/kdXBGjmiVCE				
	Q. Validate BST		https://youtu.be/GcY4pTdHzq0			
	Q. Two Sum in BST		https://youtu.be/9luczLx9YYc			
	Q. Kth Smallest Element in BST		https://youtu.be/RM8k2pr6V38			
	Q. LCA in BST		https://youtu.be/TytL24jNZ6k			
	Q. Burn a Tree		TBD			
	Q. BT to DLL		TBD			
	Q. Floor and Ceil in BST		TBD			
	Q. Search in BST		TBD			
	Q. Binary Search Tree Iterator		https://youtu.be/V9J9gGIVt_E			
	Q. Maximum Sum BST in Binary Tree		https://youtu.be/zAz-Wbqlaf8			
	Flood fill algorithm in DT		TBD			
	Flood fill algorithm in BT		TBD			
	Segment tree					
	Range query		TBD			
	Red Black Tree		TBD			
	AVL Tree		https://youtu.be/QEvpN09q3nw			
		1. AVL Trees				
		2. Balanced Trees				
		3. Insert in AVL Tree				
		4. Delete in AVL Tree				
		5. Balance factor of AVL Tree				
		6. AVL Tree rotations				
		7. LL				
		8. RR				
		9. LR				
		10. RL				
			1 //			
	TreeMap Collections		https://youtu.be/W0Jgjlgz3zQ			
eap & Priority Queue						
ieap & Priority Queue	TreeMap Collections Heap	1. Heaps	https://youtu.be/W0Jqjlgz3zQ https://youtu.be/NFiYQGyL8rg			
eap & Priority Queue		1. Heaps				
eap & Priority Queue		2. Heapify				
eap & Priority Queue		2. Heapify 3. Heapsort				
eap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap				
eap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap				
leap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key				
leap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key				
leap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap				
leap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap				
leap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap 10. build heap from array				
leap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap				
teap & Priority Queue		2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap 10. build heap from array 11. Complete Tree				
leap & Priority Queue	Неар	2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap 10. build heap from array	https://youtu.be/NFiYQGyL8rg			
Heap & Priority Queue	Неар	2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap 10. build heap from array 11. Complete Tree 1. Priority Queue in Java collections 2. Priority Queue on custom classes.	https://youtu.be/NFiYQGyL8rg			
teap & Priority Queue	Неар	2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap 10. build heap from array 11. Complete Tree 1. Priority Queue in Java collections	https://youtu.be/NFiYQGyL8rg			
Heap & Priority Queue	Неар	2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap 10. build heap from array 11. Complete Tree 1. Priority Queue in Java collections 2. Priority Queue on custom classes. 3. Collections. ReverseOrder() 4. dsa playlist	https://youtu.be/NFiYQGyL8rg			
teap & Priority Queue	Неар	2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap 10. build heap from array 11. Complete Tree 1. Priority Queue in Java collections 2. Priority Queue on custom classes. 3. Collections. ReverseOrder()	https://youtu.be/NFiYQGyL8rg			
łeap & Priority Queue	Неар	2. Heapify 3. Heapsort 4. Min Heap 5. Max Heap 6. Increase Key 7. Decrease Key 8. Insert in Heap 9. Delete from Heap 10. build heap from array 11. Complete Tree 1. Priority Queue in Java collections 2. Priority Queue on custom classes. 3. Collections. ReverseOrder() 4. dsa playlist	https://youtu.be/NFiYQGyL8rg			

	Q. IPO		https://youtu.be/sdCvHi2i03E
	Q. Design Twitter		https://youtu.be/tH051S6aM5M
	Q. Task Scheduler		https://youtu.be/it-tqUPacgM
	Q. Connect N ropes with Minimum cost Q. Medium of Running Streams of Integers		TBD TBD
	Q. Meaium of Running Streams of Integers Q. Maximum Sum Combination		TBD
	Q. Merge K sorted Elements		TBD
Tries	Trie	Introduction to Trie	
		Implement a Trie in java	
		Insert, Search and delete operations	
	Questions on TRIE	Q. Longest String with All prefixes	
		Q. Number of Distinct substrings in string	
		Q. Power Set	
		Q. Maximum XoR of two Numbers in an Array	
			111 11 11 11 11 11 11 11
Graphs	Graph Introduction	1. Introduction to graphs	https://youtu.be/f-buby0Aac8
		2. Directed Graph	
		3. UnDirected Graph	
		4. Weighted Graph	
		5. UnWeighted Graph	
		6. Vertex and Edges	
		7. Degree of a node in graph	
		8. In-degree and Out-degree in graphs	
	Graph Penrecentation & Application		https://woutu.hg/2cVI.latonhl.la
	Graph Representation & Application	1. How to represent graph in memory	https://youtu.be/2oXUetonhUg
		2. InDegree of directed graph	
		3. outDegree of directed graph	
		4. Adjacency List	
		5. Adjacency Matrix	
		6. Degree of a graph	
		7. Represent Directed graph with weight	
		8. Represent UnDirected graph with weight	
	Q. Find the center of star graph		https://youtu.be/bEzD_V6Uhss
	Q. Maximum Total Importance of Roads		https://youtu.be/C7BENkkO3oU
	Connected Components and Path		https://youtu.be/bmULgrjRcss
		1. How to traverse multiple components in a graph	
		2. TreeTraversal vs Graph Traversal	
		3. Path in a graph	
		4. Cycle in a graph E. Directed Acyclic Craph (DAC)	
		5. Directed Acyclic Graph (DAG) 7. Find if a path is valid or not	
	DFS Traversal in Graph	7. That if a path is valid of not	https://youtu.be/8ZP_Y3boL0M
	BFS Traversal in Graph		https://youtu.be/88WZluVGIFI
	Q. Flood fill using BFS		https://youtu.be/W6nOvvWzZYg
	Q. Number of Islands		https://youtu.be/mwsuv-S1biw
	Q. Word Ladder -1		https://youtu.be/zjR2WGbBA2k
	Q. Word Ladder -2		https://youtu.be/KsNOBLyImbY
	Q. Evaluate Division		https://youtu.be/i0lqeMRul5k
	Q. Get Watched Videos by your friends		https://youtu.be/dCTAWkkO4h4
	Q. Rotting Oranges Multisource BFS		https://youtu.be/PULSUj4gBBc
	Q. Minimum Time to Collect All Apples in a Tree		https://youtu.be/ROI1bS_uBSE
	Q. Most Stones Removed with Same Row or Column Q. Accounts Merge		https://youtu.be/SjdbuY-Ryuk https://youtu.be/kmzIMoxmCs4
	cycle detection in undirected graph using BFS		https://youtu.be/gvNeSmWatIc
	cycle detection in undirected graph using DFS		https://youtu.be/erRL82Gl2Xg
	Cycle Detection In Directed Graphs using DFS		https://youtu.be/Y3elsQj-Dpl
	Kahn's Algorithm for Toposort		https://youtu.be/tZjVTTABXV0
	Toposort using DFS		https://youtu.be/syzUtO95I8g
	Cycle Detection in directed graph using toposort		https://youtu.be/3PMWe72jF_8
	When to apply BFS Shortest Path using BFS		https://youtu.be/vNHDWm_aVgA
	Dijkstra Algorithm Shortest Path		https://youtu.be/jhlo_YQPXR0
	Floyd Warshall Algorithm Shortest Path		https://youtu.be/7y88NO1Aq1o
	Bellmanford Algorithm Shortest Path		https://youtu.be/Kbfgo3E3n6c
	Q. Network Delay Time		https://youtu.be/n551TcPWSH8
	Q. Cheapest Flights Within K Stops Q. Minimum Cost to Convert String I		https://youtu.be/NIrYezLg_6Q https://youtu.be/jmqnpjtVPNs
	Disjoint Sets in one shot		https://youtu.be/jmqnpjtvPNs https://youtu.be/7wgUuv0U5zs
	Q. Redundant Connection		https://youtu.be/jrLOReWZSes
	Q. Satisfiability of Equality Equations		https://youtu.be/87bMglHvC8A
	Q. Number of Operations to Make Network Connected		https://youtu.be/Gn6ZlaLIDjY
	Q. Is Graph Bipartite?		https://youtu.be/7nETmZcQRko
	Strongly Connected Components Kosaraju's Algorithm	n	TBD
	Minimum spanning tree		https://youtu.be/XozGcnGHJXM
	Prim's Algorithm for minimum spanning tree		https://youtu.be/4EuFmlbcSY8
	Kruskal's Algorithm for minimum spanning tree		https://youtu.be/dBGYpKLY2bQ
Greedy Algorithms	Greedy Algorithm Introduction		TBD
	Q. Activity Selection Problem		TBD
	Q. Egyption Fraction		TBD
	Q. Job Sequencing Problem		TBD
	Q. Policemen Catches Thieves		TBD
	Q. Assign mice to Holes		TBD
	Q. Minimum swaps for bracket balancing		TBD
	Q. Minimum number of Platforms for Railway station		TBD
	Q. Minimum number of Coins - greedy		TBD
	Q. Fractional Knapsack - greedy Q. Text Justification		TBD
	Q. Text Justification		TBD
Dynamic Programming (DP)	Dynamic Programming Introduction		TBD
		Overlapping Subproblems	
		Optimal Substructures	
	Q. Coin Change Problem Q. 0-1 Knapsack Problem	Optimal Substructures	TBD TBD

	Q. Pallindromic Partitioning	TBD	
	Kadanes Algorithm	TBD	
	Q. Maximum Sum Subarray	TBD	
	Q. Maximum Product Subarray	TBD	
	Q. Maximum Sum Rectangle	TBD	
	Q. Edit Distance	TBD	
	Q. Rod Cutting Problem	TBD	
	Q. Word Break Problem	TBD	
	Q. Longest Common Subsequence	TBD	
	Q. Variants of LCS	TBD	
Multi Threading	Java Multithreading and Concurrancy - I	TBD	
	Java Multithreading and Concurrancy - II	TBD	
Bonus	Catalan Number	TBD	
	Permutation and combinations		
	Trending leetcode contest questions.		
	All Important pattern printing		
	Observation and tricks		