

	TOPICS	Video Link	Solution Link	Problem Link
1.1 Basics	User Input/ Output Data Types If Else Statements Switch Statements What are Arrays, Strings? While Loops Functions Time complexity and Space Complexity	https://www.youtube.com/watch?v=AR7De6G6e4k https://www.youtube.com/watch?v=AR7De6G6e4k https://www.youtube.com/watch?v=AR7De6G6e4k https://www.youtube.com/watch?v=AR7De6G6e4k https://www.youtube.com/watch?v=AR7De6G6e4k https://www.youtube.com/watch?v=AR7De6G6e4k https://www.youtube.com/watch?v=AR7De6G6e4k https://www.youtube.com/watch?v=AR7De6G6e4k	https://takeforward.org/c/c-basic-input-output/ https://takeforward.org/c/c-if-else-if-else-statements/ https://takeforward.org/switch-case/switch-case-statements/ https://takeforward.org/c/c-while-loop/understanding-for-loop/ https://takeforward.org/c/c-while-loop/break-loop-in-programming/ https://takeforward.org/time-complexity/time-and-space-complexity-analysis-a-z-2x-course/	https://www.geeksforgeeks.org/problems/search-query-auto-complete/2455894550-Strings&problemStatus=unsolved&difficulty=2455894550-28page=1&query=category%3A2455894550&stringProblemStatus=unsolved&difficulty=2455894550&page=category%3A2455894550&data-type=16667067317&utm_source=youtube&utm_medium=click&utm_campaign=data-type https://www.geeksforgeeks.org/problems/you-if-else-decision-maker/2021402019-4&difficulty=2455894550-28page=1&query=category%3A2455894550&stringProblemStatus=unsolved&difficulty=2455894550-28page=1&query=category%3A2455894550&data-type=16667067317&utm_source=youtube&utm_medium=click&utm_campaign=data-type https://www.geeksforgeeks.org/problems/you-switch-case-statement/1329/ https://www.naukri.com/code360/problems/tm-fibonacci-number_74156?utm_source=river&utm_medium=website&utm_campaign=coursedot https://www.geeksforgeeks.org/problems/while-loop-practice/194/ https://www.geeksforgeeks.org/problems/while-loop-practice/194/
1.2 Logical Thinking	Patterns	www.youtube.com/watch?v=8H31w_Nk8tF	https://takeforward.org/patterns-a-z-2x-course/most-ds-pattern-problems-before-starting-ds/	
1.3 STL	C++ STL		https://takeforward.org/c/c-stl/stl-most-frequent-used-in-containers/	
1.4 Basic Maths	Count Digits Reverse a Number Check Palindrome GCD or HCF Armstrong Number Print all Divisors Check for Prime	https://www.youtube.com/watch?v=1xh3M6M9g https://www.youtube.com/watch?v=1xh3M6M9g https://www.youtube.com/watch?v=1xh3M6M9g https://www.youtube.com/watch?v=1xh3M6M9g https://www.youtube.com/watch?v=1xh3M6M9g https://www.youtube.com/watch?v=1xh3M6M9g https://www.youtube.com/watch?v=1xh3M6M9g	https://takeforward.org/algorithm/count-digits-in-a-number/ https://takeforward.org/algorithm/reverse-digits-of-a-number/ https://takeforward.org/algorithm/check-if-a-number-is-palindrome-or-not/ https://takeforward.org/algorithm/find-gcd-of-two-numbers/ https://takeforward.org/algorithm/is-a-number-is-armstrong-number-or-not/ https://takeforward.org/algorithm/print-all-divisors-of-a-given-number/ https://takeforward.org/algorithm/check-a-number-is-prime-or-not/	https://www.geeksforgeeks.org/problems/count-digits/716/ https://leetcode.com/problems/reverse-digits-of-a-number/ https://leetcode.com/problems/palindrome-number/ https://leetcode.com/problems/gcd-of-two-numbers/ https://leetcode.com/problems/armstrong-number/ https://leetcode.com/problems/divisors-number/ https://leetcode.com/problems/prime-number/
1.5 Basic Recursion	Print Something N times Print Name N times 1 to N using recursion N to 1 using recursion Sum of N to N sum Factorial of N sum Reverse of an array Palindrome or not Fibonacci Number	https://www.youtube.com/watch?v=9P6b6G6e4k https://www.youtube.com/watch?v=9P6b6G6e4k https://www.youtube.com/watch?v=9P6b6G6e4k https://www.youtube.com/watch?v=9P6b6G6e4k https://www.youtube.com/watch?v=9P6b6G6e4k https://www.youtube.com/watch?v=9P6b6G6e4k https://www.youtube.com/watch?v=9P6b6G6e4k https://www.youtube.com/watch?v=9P6b6G6e4k https://www.youtube.com/watch?v=9P6b6G6e4k	https://takeforward.org/recursion/introduction-to-recursion-understand-recursion-by-printing-something-n-times/ https://takeforward.org/recursion/print-name-n-times-using-recursion/ https://takeforward.org/recursion/print-1-to-n-using-recursion/ https://takeforward.org/recursion/print-n-to-1-using-recursion/ https://takeforward.org/algorithm/sum-of-first-n-natural-numbers/ https://takeforward.org/algorithm/recursive-factorial-of-a-given-number-and-recursion/ https://takeforward.org/algorithm/reverse-a-given-array/ https://takeforward.org/algorithm/check-if-the-given-string-is-palindrome-or-not/ https://takeforward.org/algorithm/print-fibonacci-series-up-to-nth-term/ https://takeforward.org/algorithm/hashing-map-time-complexity-collisions-disk-size-of-hashing-algorithm-a-z-2x-course/	https://leetcode.com/problems/print-n-times/ https://leetcode.com/problems/print-name-n-times/ https://leetcode.com/problems/print-1-to-n-without-using-loops-1587115660/ https://leetcode.com/problems/print-n-to-1-without-using-loops-1587115660/ https://leetcode.com/problems/sum-of-first-n-items-645/ https://leetcode.com/problems/recursive-factorial-of-a-given-number-and-recursion/ https://leetcode.com/problems/reverse-a-given-array/ https://leetcode.com/problems/valid-palindrome/ https://leetcode.com/problems/fibonacci-number/ https://leetcode.com/problems/frequency-of-array-elements-1587115660/
1.6 Basic Hashing	Hashing Theory Counting Frequency of an element Find Highest and Lowest freq element	https://www.youtube.com/watch?v=9P6b6G6e4k	https://takeforward.org/algorithm/counting-frequency-of-each-element-in-the-array/ https://takeforward.org/algorithm/find-the-highest-lowest-frequency-element/	https://leetcode.com/problems/frequency-of-array-elements-1587115660/
2.1 Sorting -1	Selection Sort Bubble Sort Insertion Sort	https://www.youtube.com/watch?v=6uEiG24 https://www.youtube.com/watch?v=6uEiG24 https://www.youtube.com/watch?v=6uEiG24	https://takeforward.org/sorting/selection-sort-algorithm/ https://takeforward.org/algorithm/bubble-sort-algorithm/ https://takeforward.org/algorithm/insertion-sort-algorithm/	https://leetcode.com/problems/selection-sort/ https://leetcode.com/problems/bubble-sort/ https://leetcode.com/problems/insertion-sort/
2.2 Sorting -2	Merge Sort Recursive Merge Recursive Insertion	https://www.youtube.com/watch?v=7C9K0t8	https://takeforward.org/algorithm/merge-sort-algorithm/ https://takeforward.org/algorithm/recursive-bubble-sort-algorithm/ https://takeforward.org/algorithm/recursive-insertion-sort-algorithm/	https://leetcode.com/problems/merge-sort/ https://leetcode.com/problems/bubble-sort/ https://leetcode.com/problems/insertion-sort/
3 Arrays		https://www.youtube.com/watch?v=4Yx4RDQ	https://takeforward.org/algorithm/array/insertion-sort-algorithm/	https://leetcode.com/problems/insertion-sort/
3.1 Easy	Largest Element Second Largest Check if array is sorted Remove duplicates in sorted array Left rotate by one place Left rotate by D places Move Zeros to end Linear search Find the Union Find Missing Number Minimum Consecutive ones find the number that appears once Largest Subarray with given Sum K(Positive) Largest Subarray with given Sum K(Positive + Negative)	https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t https://www.youtube.com/watch?v=7TE6MDM1t 		