Video Solution	Category	Name	Link Notes	
	,	Two Sum		
https://youtu.be/KLIXCFG5TnA https://youtu.be/1pkOgXD63yU	Arrays		https://leetcode_ use hash map to instantly check for difference value, map will add index of last occurrence of a num, don't use same element twice;  https://leetcode_find local min and search for local max, sliding window;	
	Arrays		INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca manga soung munous.  INCOST/FECCOSE; mun ucca mini ano search no toca mun ucca mini ano search no toca mun ucca mini ano search no toca mun ucca	
	Arrays	Product of Array Except Self	INLOS/FEELOUS; INSTITUTE TO SEE TO SEE UNIQUE VALUES IN A LIGHT TO SEE A COMMITTEE TO SEE A COMMITTE TO SEE A COMMITTEE TO SEE A COMMITTEE TO SEE A COMMITTEE TO SEE	
https://youtu.be/5WZI3MMT0Eg	.,,.		INIGO / TRECKORE; make two passes, inis invues, section in reverse, to compute product in the horizontal product in the ho	
https://youtu.be/IXVy6YWFcRM		·	Intust/Tectode justices per source programming computer man source programming computer man source premium that programming computer man source programming co	
	Arrays		Insus/Trectode by computer link array in make above in the burn price, some of the price in the	
	Arrays		https://leetcode/ at most two sorted halfs, mid will be apart of left sorted or right sorted, if target is in range of sorted portion then search it, otherwise search other half	
https://youtu.be/jzZsG8n2R9A	Arrays	3Sum	https://leetcode.sort input, for each first element, find next two where a = b-c, (if a-prevA, skip a, if b-prevB skip b to elim duplicates; to find b,c use two pointers, left/right on remaining list;	
	Arrays	Container With Most Water	https://leetcode/shrinking window, left/right initially at endpoints, shift the pointer with min height;	
	Binary	Sum of Two Integers	https://leetcode add bit by bit, be mindful of carry, after adding, if carry is still 1, then add it as well;	
	Binary	Number of 1 Bits	https://leetcode modulo, and dividing n; mod and div are expensive, to divide use bit shift, instead of mod to get 1's place use bitwise & 1;	
https://youtu.be/RyBM56RIWrM	Binary	Counting Bits	https://leetrode write out result for num=16 to figure out pattern; res[i] = res[i - offset], where offset is the biggest power of 2 <= 1;	
https://youtu.be/WnPLSRLSANE		Missing Number	https://leetcode compute expected sum - real sum; xor n with each index and value;	
https://youtu.be/UcoN6UjAl64	Binary	Reverse Bits	https://leetcode reverse each of 32 bits;	
https://youtu.be/Y0IT9Fck7qI	Dynamic Programn	Climbing Stairs	https://leetcode. subproblem find (n-1) and (n-2), sum = n;	
https://youtu.be/H9bfqozjoqs	Dynamic Programn	Coin Change	https://leetcode_ top-down: recursive dfs, for amount, branch for each coin, cache to store prev coin_count for each amount; bottom-up: compute coins for amount = 1, up until n, using for each coin (amount - coin), cache prev values	
https://youtu.be/cjWnW0hdF1Y	Dynamic Programn	Longest Increasing Subsequence	https://leetcode_recursive: foreach num, get subseq with num and without num, only include num if prev was less, cache solution of each; dp-subseq length which must end with each num, curr num must be after a prev dp or by itself;	
https://youtu.be/Ua0GhsJSIWM	Dynamic Programn	Longest Common Subsequence	https://leetcode/ recursive: if first chars are equal find Ics of remaining of each, else max of: Ics of first and remain of 2nd and Ics of 2nd remain of first, cache result; nested forloop to compute the cache without recursion;	
https://youtu.be/Sx9NNgInc3A	Dynamic Programn	Word Break Problem	https://leetcode/ for each prefix, if prefix is in dict and wordbreak/remaining str)=True, then return True, cache result of wordbreak;	
	Dynamic Programm		https://leetcode/ visualize the decision tree, base case is curSum = or > target, each candidate can have children of itself or elements to right of it inorder to elim duplicate solutions;	
	Dynamic Programm		https://leetcode for each num, get max of prev subarr, or num + prev subarr not including last element, store results of prev, and prev not including last element	
	Dynamic Programn		https://leetcode/ subarr = arr without first. & last, get max of subarr, then pick which of first/last should be added to it	
https://youtu.be/6aEyTjOwlJU	Dynamic Programn		https://leetcode/ can cur char be decoded in one or two ways? Recursion -> cache -> iterative dp solution, a lot of edge cases to determine, \$2, 31, 29, 10, 20 only decoded one way, 11, 26 decoded two ways	
https://youtu.be/IIEsdxuD4IY	Dynamic Programr		https://leetcode work backwards from solution, store paths for each position in grid, to further optimize, we don't store whole grid, only need to store prev row;	
https://youtu.be/Yan0cv2cLy8	Dynamic Programn		https://leetcode visualize the recursive tree, cache solution for O(n) time/mem complexity, iterative is O(1) mem, just iterate backwards to see if element can reach goal node, if yes, then set it equal to goal node, continue;	
https://youtu.be/mQeF6bN8hMk		Clone Graph	https://leetcode/ recursive dfs, hashmap for visited nodes	
	Graph		https://leetcode/build adjacentry_list with edges, run dfs on each V, if while dfs on V we see V again, then loop exists, otherwise V isnt in a loop, 3 states= not visited, visited, still visiting	
https://youtu.be/s-VkcjHqkGI	Graph		https://leetcode/dis each cell, keep track of visited, and track which reach pac, atl; dfs on cells adjacent to pac, atl, find overlap of cells that are visited by both pac and atl cells;	
	Graph	Number of Islands	https://leetcode/ foreach cell, if cell is 1 and unvisited run dfs, increment cound and marking each contigous 1 as visited	
https://youtu.be/P6RZZMu_maU	Graph	Longest Consecutive Sequence	https://leetcode use bruteforce and try to optimize, consider the max subseq containing each num; add each num to hashset, for each num if num-1 doesn't exist, count the consecutive nums after num, ie num+1; there is also a union-find solution;	
https://youtu.be/6kTZYvNNyps	Graph		https://leetcode chars of a word not in order, the words are in order, find adjacency list of each unique char by iterating through adjacent words and finding first chars that are different, run topsort on graph and do loop detection;	
https://youtu.be/bXsUuownnoQ	Graph		https://leetrode/ union find, if union return false, loop exists, at end size must equal n, or its not connected; dfs to get size and check for loop, since each edge is double, before dfs on neighbor of N, remove N from neighbor list of neighbor;	
https://youtu.be/8f1XPm4WOUc https://youtu.be/A8NUOmlwOIM	Graph		in <a href="https://leetcode">https://leetcode</a> (dfs on each node that hasn't been visited, increment component count, adjacency list; bfs and union find are possible; <a href="https://leetcode">https://leetcode</a> (insert new interval in order, then merge intervals; newinterval could only merge with one interval that comes before it, then add remaining intervals;	
	Interval		INCLUSIVENCECOE; meet new interval in order, the interval should be adjacent, treat and build solution; also gray an entry of the solution; the solution and th	
https://youtu.be/nONCGxWoUfM		Non-overlapping Intervals	INSUSTICECTORS AND THE PROPERTY OF THE PROPERT	
https://youtu.be/PaJxqZVPhbg	Interval		Industrial Control of the Control of	
https://youtu.be/FdzJmTCVyJU	Interval		https://dectode/ we care about the points in time where we are starting/ending a meeting, we are time, in section with the points in time where we are starting/ending a meeting, we are about the points in time where we are starting/ending a meeting, we are about the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we are about the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we are about the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we are about the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we are about the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we are about the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we are about the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we have the points of the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we have the points of the points in time; for each meeting check if a prev meeting has finished before curr started, using meeting we have the points of	min hean:
https://youtu.be/G0 I-ZF0S38	Linked List	0 (	https://leetcode/literate through maintaining.cur and prev: recursively reverse, return new head of list	
https://youtu.be/gBTe7IFR3vc	Linked List	Detect Cycle in a Linked List	https://leetrode dict to remember visited nodes; two pointers at different speeds, if they meet there is loop	
https://youtu.be/XIdigk956u0	Linked List	,	https://leetrode insert each node from one list into the other	
https://youtu.be/q5a5OiGbT6Q	Linked List	-	https://leetrode_ divied and conquer, merge lists, N totalnodes, k-lists, O(N*logk). For each list, find min val, insert it into list, use priorityQ to optimize finding min O(N*logk)	
https://youtu.be/XVuQxVej6y8	Linked List			
https://youtu.be/S5bfdUTrKLM	Linked List	Reorder List	https://leetrode reverse second half of list, then easily reorder it; non-optimal way is to store list in array;	
https://youtu.be/T41rL0L3Pnw	Matrix	Set Matrix Zeroes	https://leetrode use sets to keep track of all rows, cols to zero out, after, for each num if it is in a zero row or col then change it to 0; flag first cell in row, and col to mark row/col that needs to be zeroed;	
https://youtu.be/BJnMZNwUk1M	Matrix	Spiral Matrix	https://leetrode_keep track of visited cells; keep track of boundaries, layer-by-layer;	
https://youtu.be/fMSJSS7eO1w	Matrix	Rotate Image	https://leetcode_rotate layer-by-layer, use that it's a square as advantage, rotate positions in reverse order, store a in temp, a = b, b = c, c = d, d = temp;	
https://youtu.be/pfiQ_PS1g8E	Matrix	Word Search	https://leetcode. dfs on each cell, for each search remember visited cells, and remove cur visited cell right before you return from dfs;	
https://youtu.be/wiGpQwVHdE0			Ig https://leetcode, sliding window, if we see same char twice within curr window, shift start position;	
	String		the <a href="https://leetcode">https://leetcode</a> PAY ATTENTION: limited to chars A-2; for each capital char, check if it could create the longest repeating substr, use sliding window to optimize; check if windowlen=1 works, if yes, increment len, if not, shift window right;	
https://youtu.be/jSto004AJbM	String		https://leetcode/ need is num of unique char in T, HAVE is num of char we have valid count for, sliding window, move right until valid, if valid, increment left until invalid, to check validity keep track if the count of each unique char is satisfied;	
https://youtu.be/9UtInBqnCgA	String		https://leetcode/ hashmap to count each char in str1, decrement for str2;	
	String	Group Anagrams	https://leetcode for each of 26 chars, use count of each char in each word as tuple for key in dict, value is the list of anagrams;	
	String	Valid Parentheses	https://leetcode/push opening brace on stack, pop if matching close brace, at end if stack empty, return true;	
	String		https://leetcode left, right pointers, update left and right until each points at alphanum, compare left and right, continue until left >= right, don't distinguish between upper/lowercase;	
https://youtu.be/XYQecbcd6_c	String		https://leetcode/foreach char in str, consider it were the middle, consider if pali was odd or even;	
https://youtu.be/4RACzI5-du8	String		https://leetcode/ same as longest palindromic string, each char in str as middle and expand outwards, do same for pall of even len; maybe read up on manachers alg	
https://youtu.be/B1k_sxOSgv8	String		de https://deet.ode/ store length of str before each string and delimiter like '#';	
https://youtu.be/hTM3phVI6YQ	-		https://leetcode/ recursive dfs to find max-depth of subtrees; iterative bfs to count number of levels in tree	
https://youtu.be/vRbbcKXCxOw https://youtu.be/OnSn2XEQ4MY		Same Tree Invert/Flip Binary Tree	https://leetcode_recursive dfs on both trees at the same time; iterative bfs compare each level of both trees  https://leetcode_recursive dfs to invert subtrees; bfs to invert levels, use collections deque; iterative dfs is easy with stack if doing pre-order traversal	
https://youtu.be/Hr5cWUld4vU https://youtu.be/6ZnyEApgFYg	Tree	Binary Tree Maximum Path Sum Binary Tree Level Order Traversal	https://leetcode/ helper returns maxpathsum without splitting branches, inside helper we also update maxSum by computing maxpathsum WITH a split;  https://leetcode/ literative bfs. add prev level which doesn't have any nulls to the result:	
https://youtu.be/bZnyEApgFYg https://youtu.be/u4JAi2JJhI8	Tree	. /	INITIES://IEECCOBE, Iterative ofs, ado prev level wnich doesn't nave any nuits to the result;  This is the provided by the very single non-null node is added to string, and it's children are added too, even if they're null, deserialize by adding each non-null node to queue, deque node, it's children are next two nodes in string;	
	Tree	Subtree of Another Tree	INCLUSIVENCE OF THE PROPERTY O	
https://youtu.be/E36O5SWp-LE	Tree		INCLUSIVENCEOUS IT AVERAGE STATE OF THE STAT	
https://youtu.be/s6ATEkipzow	Tree	Validate Binary Search Tree	In Industriectorse: instructions in pre-order is roto, elements into irout in in-order are instructive, right or roto, are right source, recursively only instructive, recursive properties of the recursive p	
ittps://youtu.be/somickipzow	nee	valuate billary Search free	Intersal free course are so are count in python minighness react min fig. "In fig. as paralleletes, iterative involves induced safe their varies greater than prev,	

https://youtu.be/5LUXSvjmGCw	Tree	Kth Smallest Element in a BST	https://leetcode/ non-optimal store tree in sorted array; iterative dfs in-order and return the kth element processed, go left until null, pop, go right once;
https://youtu.be/gs2LMfuOR9k	Tree	Lowest Common Ancestor of BST	attos://leetcode/compare p, q values to curr node, base case: one is in left, other in right subtree, then curr is ica;
https://youtu.be/oobqoCJIHA0	Tree	Implement Trie (Prefix Tree)	nttps://leetcode_inode has children characters, and bool if its an ending character, node DOESN'T have or need char, since root node doesn't have a char, only children;
https://youtu.be/BTf05gs_8iU	Tree	Add and Search Word	https://leetcode_if char = "." run search for remaining portion of word on all of curr nodes children;
https://youtu.be/asbcE9mZz_U	Tree	Word Search II	attos://leetcode_trick: I though use trie to store the grid, reverse thinking, instead store dictionary words, dfs on each cell; check if cell's char exists as child of root node in trie, if it does, update currNode, and check neighbors, a word could exist multiple times in grid, so don't add duplicates;
https://youtu.be/q5a5OiGbT6Q	Heap	Merge K Sorted Lists	nttps://leetcode/ we always want the min of the current frontier, we can store frontier in heap of size k for efficient pop/push; divide and conquer merging lists;
https://youtu.be/YPTqKIgVk-k	Heap	Top K Frequent Elements	attps://leetcode/ minheap that's kept at size k, if its bigger than k pop the min, by the end it should be left with k largest;
https://youtu.be/itmhHWaHupl	Heap	Find Median from Data Stream	attos://leetcode/ maintain curr median, and all num greater than med in a minHeap, and all num less than med in a maxHeap, after every insertion update median depending on odd/even num of elements;