Leetcode 75 Questions (NeetCode on yt)

A RETTER VERSION ->>	https://neetcode.io/			
Video Solution	Category	Name	Link	Notes
https://youtu.be/KLIXCFG5TnA	Arrays	Two Sum		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;
	Arrays			find local min and search for local max, sliding window;
	Arrays	Contains Duplicate		hashset to get unique values in array, to check for duplicates easily
https://youtu.be/bNvIQI2wAjk https://youtu.be/5WZI3MMT0Eg	Arrays Arrays	Product of Array Except Self Maximum Subarray		make two passes, first in-order, second in-reverse, to compute products pattern, prev subarry can the negative, divamir programming: compute max sum for each prefix
	Arrays	Maximum Product Subarray		pattern, pres subarray can be regainer, primainin, programming, compute max sum or each preix dig compute max and max abs-val for each prefix subarr;
	Arrays	Find Minimum in Rotated Sorted Arra		check if half of array is sorted in order to find pivot, arr is guaranteed to be in at most two sorted subarrays
	Arrays			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
	Arrays	3Sum		sort input, for each first element, find next two where -a = b+c, if a=prevA, skip a, if b=prevA skip b to elim duplicates; to find b,c use two pointers, left/right on remaining list;
nttps://youtu.be/UuiTKBwPgAo	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		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		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;
	Binary	Counting Bits		write out result for num=16 to figure out pattern; res[i] = res[i - offset], where offset is the biggest power of 2 <= 1;
	Binary	Missing Number		compute expected sum - real sum; xor n with each index and value;
	Binary Dynamic Programming	Reverse Bits Climbing Stairs		reverse each of 32 bits; subcoblem find to 13 and (n-21, sum = n:
	Dynamic Programming Dynamic Programming	Coin Change		Suppoderminus (i.e.) and in incl., a sun in in
	Dynamic Programming			recursive: foreach num, get subsequith num and without num, only include num if prev was less, cacke solution of each; deposibsed length which must end with each num, cur num must be after a prev do or by itself;
	Dynamic Programming	Longest Common Subsequence		recursive: if first chars are equal find its of remaining of each, else max of: its of first and remain of 2nd and its of 2nd remain of first, cache result: nested forloop to compute the cache without recursion:
https://youtu.be/Sx9NNgInc3A	Dynamic Programming	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;
ttps://youtu.be/GBKI9VSKdGg	Dynamic Programming	Combination Sum	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 Programming	House Robber		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 Programming	House Robber II		subarr = arr without first & last, get max of subarr, then pick which of first/last should be added to it
	Dynamic Programming	Decode Ways		can cur char be decoded in one or two ways? Recursion -> cache -> iterative dp solution, a lot of edge cases to determine, 52, 31, 29, 10, 20 only decoded one way, 11, 26 decoded two ways
	Dynamic Programming	Unique Paths		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;
	Dynamic Programming Graph	Jump Game Clone Graph		visualize the recursive tree, cache solution for (In) 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; recursive time, suchmap for visited nodes
	Graph	Clone Graph Course Schedule		recursive dis, hashmap for visited nodes
	Graph	Pacific Atlantic Water Flow		Joins augments, Joseph Leges, Junio si a realit, vi, mine aceti, vii,
	Graph	Number of Islands		us each ries, neep tract visited, and the strength of the stre
nttps://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;
ttps://youtu.be/6kTZYvNNyps	Graph			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;
ttps://youtu.be/bXsUuownnoQ	Graph	Graph Valid Tree (Leetcode Premium)	https://leetcode.	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;
ttps://youtu.be/8f1XPm4WOUc	Graph			dfs on each node that hasn't been visited, increment component count, adjacency list; bfs and union find are possible;
ttps://youtu.be/A8NUOmlwOIM	Interval	Insert Interval		insert new interval in order, then merge intervals; newinterval could only merge with one interval that comes before it, then add remaining intervals;
	Interval	Merge Intervals		sort each interval, overlapping intervals should be adjacent, iterate and build solution; also graph method, less efficient, more complicated
https://youtu.be/nONCGxWoUfM	Interval	Non-overlapping Intervals		instead of removing, count how max mum of intervals you can include, sort intervals, by to compute max intervals up until the I-th interval; sort intervals by start time, if second interval doesn't overlap with first, the hit did evon to verbeap with first, then this did evon to verbeap with first, then the verbeap with the ver
https://youtu.be/PajxqzvPnbg https://youtu.be/FdzJmTCVyJU	Interval			soft intervises by start time, it second interval obest to everage with intervise the observation and intervise the observatio
	Linked List	Reverse a Linked List		iterate through maintaining our and prev, recursively reverse, return new head of list
	Linked List	Detect Cycle in a Linked List		dict to remember visited nodes; two pointers at different speeds, if they meet there is loop
ttps://youtu.be/XIdigk956u0	Linked List	Merge Two Sorted Lists	https://leetcode.	insert each node from one list into the other
ttps://youtu.be/q5a5OiGbT6O	Linked List	Merge K Sorted Lists	https://leetcode.	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)
	Linked List			use dummy node at head of list, compute len of list; two pointers, second has offset of n from first;
	Linked List	Reorder List		reverse second half of list, then easily reorder it; non-optimal way is to store list in array;
	Matrix	Set Matrix Zeroes		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;
	Matrix	Spiral Matrix		keep track of visited cells; keep track of boundaries, layer-by-layer;
	Matrix	Rotate Image Word Search		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, r = d, d = temp;
	String			us on each cent, or each search elementer visited cent, and entry of the cent
	String			DAY ATTENTION: limited to chars A-2, for each capital char, check if it could reate the longest repeating substr, use sliding window to optimize; check if windowlen=1 works, if yes, increment len, if not, shift window right;
	String	Minimum Window Substring		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;
https://youtu.be/vzdNOK2oB2E	String	Group Anagrams		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;
nttps://youtu.be/WTzjTskDFMg	es de la	Valid Parentheses	https://lostcodo	push opening brace on stack, pop if matching close brace, at end if stack empty, return true;
	String			
nttps://youtu.be/jJXJ16kPFWg	String	Valid Palindrome	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;
nttps://youtu.be/jJXJ16kPFWg nttps://youtu.be/XYQecbcd6_c	String 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; foreach char in str, consider it were the middle, consider if pali was odd or even;
https://youtu.be/jJXJ16kPFWg https://youtu.be/XYQecbcd6_c https://youtu.be/4RACzIS-du8	String String String	Valid Palindrome Longest Palindromic Substring Palindromic Substrings	https://leetcode https://leetcode 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; foreach char in str, consider it were the middle, consider if pail was odd or even; same as longest palindromic string, each char in str as middle and expand outwards, do same for pail of even len; maybe read up on manachers alg
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https://youtu.be/jiXJ16kPFWg https://youtu.be/XYQecbcd6 c https://youtu.be/4RACJ5-du8 https://youtu.be/91k sx0Sgv8 https://youtu.be/hTM3phVI6YQ	String String String	Valid Palindrome Longest Palindromic Substring Palindromic Substrings Encode and Decode Strings (Leetcode	https://leetcode. https://leetcode. https://leetcode. https://leetcode. 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; foreach char in st, consider it were the middle, consider it pall was odd or even; same as longest palindromic string, each char in str as middle and espand outwards, do same for pall of even len; maybe read up on manachers alg store length of str before each string and delimiter like 'B'; currounce dis to find max depth of subtrees; leneative bits to count number of levels in tree
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