

		#	Might be able to solve without looking at the solution						
Group	Tag	#		Acceptance	Difficulty				
N-Sum	hashtable	1	Two Sum						
	two pointers, hashtable	532	K-diff Pairs in an Array						
	two pointers	167	Two Sum II - Input array is sorted						
	hashtable	170	Two Sum III - Data structure design						
	two pointers, hashtable	15	3Sum						
	two pointers	16	3Sum Closest						
	two pointers	259	3Sum Smaller						
	two pointers	611	Valid Triangle Number						
	two pointers, hashtable	18	4Sum						
	hashtable	454	4Sum II						
Fixed Length, Sliding Window	queue	346	Moving Average from Data Stream						
	two pointer	643	Maximum Average Subarray I						
	heap, deque	239	Sliding Window Maximum						
	heap, median	295	Find Median from Data Stream						
	heap, median	480	Sliding Window Median						
	two pointers, hashmap	438	Find All Anagrams in a String						
	two pointers, hashmap	567	Permutation in String						
variant length, sliding window	two pointers, hashmap	3	Longest Substring Without Repeating Characters						
	regular expression	395	Longest Substring with At Least K Repeating Characters						
	two pointers	159	Longest Substring with At Most Two Distinct Characters						
	two pointers	340	Longest Substring with At Most K Distinct Characters						
	two pointers	424	Longest Repeating Character Replacement						
	two pointers, subsequence	524	Longest Word in Dictionary through Deleting						
	two pointers	76	Minimum Window Substring						
	two pointers	209	Minimum Size Subarray Sum						
subarray sum	hashmap	325	Maximum Size Subarray Sum Equals k						
	hashmap	525	Contiguous Array						
	hashmap	523	Continuous Subarray Sum						
Array, Organization	hashmap	560	Subarray Sum Equals K						
	two pointers	26	Remove Duplicates from Sorted Array						
	two pointers	80	Remove Duplicates from Sorted Array II						
	two pointers	27	Remove Element						
	two pointers	283	Move Zeros						
	two pointers	88	Merge Sorted Array						
Water Catch	pointers, counting	75	Sort Colors						
	two pointers	11	Container With Most Water						
	two pointers	42	Trapping Rain Water						
	stack	84	Largest Rectangle in Histogram						
	stack	85	Maximal Rectangle						
Circle	heap	407	Trapping Rain Water II						
	fast and slow	141	Linked List Cycle						
	fast and slow	142	Linked List Cycle II						
	fast and slow	287	Find the Duplicate Number		n(logn) by binary search, or O(n) by fast and slow two pointers				
Remove Node from Linked List		160	Intersection of Two Linked Lists		can solve elegently by connect AB and BA				
		237	Delete Node in a Linked List		do not need to change every node				
		83	Remove Duplicates from Sorted List						
		82	Remove Duplicates from Sorted List II						
		203	Remove Linked List Elements						
move nodes		19	Remove Nth Node From End of List						
		61	Rotate Lists		corner case: k = 0, < 0, =m * len(list)				
		86	Partition List						
		328	Odd Even Linked List		can have short, elegant solution				
		206	Reverse Linked List		dummy.next, node.next, node = node, dummy.next, node.next				
		92	Reverse Linked List II		every time, from the old node, we remove head into the newhead, update both head and newhead				
		21	Merge Two Sorted Lists		keep, pre and m-th, insert (m+1) to n nodes between pre and pre.next				
		23	Merge k Sorted Lists						

[illegible]

		348	Design Tic-Tac-Toe	45.60%	Medium																
		588	Design In-Memory File System	30.90%	Hard																
Tree																					
Traversal	inorder	94	Binary Tree Inorder Traversal	45.30%	Medium	iterative, Morris traversal															
	preorder	144	Binary Tree Preorder Traversal	44.10%	Medium	iterative															
	postorder	145	Binary Tree Postorder Traversal	39.40%	Hard	iterative, stack with status, inorder and preorder can be solved similarly															
	inorder	173	Binary Search Tree Iterator	40.30%	Medium																
	inorder	98	Validate Binary Search Tree	22.90%	Medium																
	inorder	99	Recover Binary Search Tree	29.30%	Hard																
	inorder	285	Inorder Successor in BST	36.00%	Medium																
	preorder	606	Construct String from Binary Tree	54.90%	Easy																
	inorder	105	Construct Binary Tree from Preorder and Inorder Traversal	31.50%	Medium	hashmap might make it faster															
	inorder	106	Construct Binary Tree from Inorder and Postorder Traversal	31.50%	Medium																
	preorder	255	Verify Preorder Sequence in Binary Search Tree	39.60%	Medium																
	inorder	501	Find Mode in Binary Search Tree	38.40%	Easy																
	inorder	653	Two Sum IV - Input is a BST	50.50%	Easy																
Level Order Traversal (mostly BFS)		102	Binary Tree Level Order Traversal	38.40%	Medium																
		107	Binary Tree Level Order Traversal II	39.10%	Easy																
		339	Nested List Weight Sum	60.90%	Easy																
		364	Nested List Weight Sum II	51.40%	Medium																
		103	Binary Tree Zigzag Level Order Traversal	33.50%	Medium																
		515	Find Largest Value in Each Tree Row	53.90%	Medium																
		116	Populating Next Right Pointers in Each Node	36.90%	Medium	we need to set next, not left, right															
		117	Populating Next Right Pointers in Each Node II	33.60%	Medium																
		199	Binary Tree Right Side View	39.80%	Medium																
		623	Add One Row to Tree	50.10%	Medium																
		637	Average of Levels in Binary Tree	63.20%	Easy																
BFS/DFS (iterative/recursive)	postorder	110	Balanced Binary Tree	36.90%	Easy																
		100	Same Tree	45.90%	Easy																
		101	Symmetric Tree	37.90%	Easy																
		226	Invert Binary Tree	50.90%	Easy	recursive, iterative (dfs using stack and bfs using deque, appendleft and pop)															
		617	Merge Two Binary Trees	73.40%	Easy																
		314	Binary Tree Vertical Order Traversal	36.20%	Medium																
		104	Maximum Depth of Binary Tree	51.80%	Easy																
	DFS	563	Binary Tree Tilt	49.00%	Easy																
		111	Minimum Depth of Binary Tree	32.70%	Easy																
		257	Binary Tree Paths	36.90%	Easy																
		404	Sum of Left Leaves	46.60%	Easy																
	DFS	112	Path Sum	33.50%	Easy	48.96 iterative															
	DFS	113	Path Sum II	32.60%	Medium	iterative using stack and extra status															
	BFS/DFS	437	Path Sum III	39.30%	Easy	a dfs method with 98.87															
	DFS	124	Binary Tree Maximum Path Sum	25.50%	Hard																
	BFS/DFS	513	Find Bottom Left Tree Value	55.80%	Medium																
	BFS/DFS	129	Sum Root to Leaf Numbers	35.90%	Medium																
	BFS/DFS	298	Binary Tree Longest Consecutive Sequence	40.50%	Medium																
DFS	250	Count Univalue Subtrees	41.20%	Medium																	
left and right	549	Binary Tree Longest Consecutive Sequence II	36.80%	Medium	two different writing have different performance, saving almost half time																
left and right	543	Diameter of Binary Tree	42.80%	Easy	the diameter is not the number of nodes																
	366	Find Leaves of Binary Tree	58.60%	Medium																	
	310	Minimum Height Trees	28.70%	Medium																	
	508	Most Frequent Subtree Sum	52.00%	Medium																	
	inorder	538	Convert BST to Greater Tree	52.90%	Medium																
	156	Binary Tree Upside Down	43.60%	Medium																	
	545	Boundary of Binary Tree	28.20%	Medium																	
Tree Conversion	stack	114	Flatten Binary Tree to Linked List	34.30%	Medium																
	stack	536	Construct Binary Tree from String	38.30%	Medium																
	binary	108	Convert Sorted Array to Binary Search Tree	41.40%	Easy																
	binary	109	Convert Sorted List to Binary Search Tree	33.40%	Medium																
Serialization		572	Subtree of Another Tree	43.90%	Easy	serialize, recursive, iterative															
		331	Verify Preorder Serialization of a Binary Tree	35.70%	Medium																
	stack	297	Serialize and Deserialize Binary Tree	32.60%	Hard	preorder, recover with a stack. or BFS with a list															
		449	Serialize and Deserialize BST	42.20%	Medium																
	binary search	222	Count Complete Tree Nodes	27.10%	Medium																
	hashtable	133	Clone Graph	25.10%	Medium																
	hashtable	138	Copy List with Random Pointer	26.50%	Medium	O(1) extra space solution															
	adjacency list	323	Number of Connected Components in an Undirected Graph	47.50%	Medium																

[illegible]

	heap	347	Top K Frequent Elements	47.30%	Medium	bucket LFU/LRU													
		632	Smallest Range	43.50%	Hard														
	heap	659	Split Array into Consecutive Subsequences	33.20%	Medium														
	heap	502	IPO	34.70%	Hard														
	bucket	539	Minimum Time Difference	45.50%	Medium														
	bucket	128	Longest Consecutive Sequence	36.00%	Hard	can solve use hashmap too													
	bucket	164	Maximum Gap	29.10%	Hard														
		463	Island Perimeter	56.80%	Easy														
		492	Construct the Rectangle	49.10%	Easy														
Shape		223	Rectangle Area	32.40%	Medium														
	math	335	Self Crossing	24.70%	Hard														
		593	Valid Square	36.10%	Medium														
	math	469	Convex Polygon	30.60%	Medium														
	math	587	Erect the Fence	0.226	Hard														
Logitic Game		292	Nim Game	55.10%	Easy	1,2,3 win, 4 loss, 5,6,7 win, 8 loss													
	math	319	Bulb Switcher	42.20%	Medium														
	math	672	Bulb Switcher II	45.60%	Medium														
132 Pattern	dp	376	Wiggle Subsequence	35.20%	Medium														
		280	Wiggle Sort	56.20%	Medium														
		324	Wiggle Sort II	25.50%	Medium														
		334	Increasing Triplet Subsequence	38.60%	Medium														
		456	132 Pattern	28.20%	Medium														
		360	Sort Transformed Array	43.60%	Medium														
		634	Find the Derangement of An Array	26.60%	Medium														
		traverse	370	Range Addition	54.60%	Medium													
		598	Range Addition II	44.40%	Easy	tricky..													
		640	Solve the Equation	38.60%	Medium														
	544	Output Contest Matches	72.10%	Medium															
	565	Array Nesting	47.10%	Medium															
	traverse	390	Elimination Game	40.50%	Medium	binary													
	traverse	420	Strong Password Checker	20.10%	Hard														
	traverse	393	UTF-8 Validation	34.80%	Medium	do int comparison instead of string													
	traverse	459	Repeated Substring Pattern	38.50%	Easy														
	traverse	465	Optimal Account Balancing	34.00%	Hard														
	traverse	481	Magical String	45.20%	Medium														
	traverse	506	Relative Ranks	47.40%	Easy														
	traverse	521	Longest Uncommon Subsequence I	51.30%	Easy														
	traverse	522	Longest Uncommon Subsequence II	28.70%	Medium														
	traverse	531	Lonely Pixel I	51.60%	Medium														
	traverse	533	Lonely Pixel II	40.00%	Medium														
	traverse	548	Split Array with Equal Sum	29.30%	Medium														
	traverse	277	Find the Celebrity	35.30%	Medium														
	traverse	482	License Key Formatting	41.20%	Medium	replace and upper is faster than do each position													
	traverse	412	Fizz Buzz	58.80%	Easy														
	traverse	14	Longest Common Prefix	31.10%	Easy														
	traverse, KMP	28	Implement strStr()	27.60%	Easy														
	traverse	161	One Edit Distance	30.90%	Medium														
	traverse	58	Length of Last Word	31.50%	Easy														
	traverse	434	Number of Segments in a String	37.00%	Easy														
	traverse	485	Max Consecutive Ones	54.50%	Easy														
	traverse	487	Max Consecutive Ones II	44.40%	Medium	Follow Up: if we can flip at most K zero, we store the previous at most K zero index in a queue, so that we can calculate the len when new value come in. Queue is better													
	traverse	157	Read N Characters Given Read4	29.10%	Easy														
	traverse	158	Read N Characters Given Read4 II - Call multiple times	24.30%	Hard														
	traverse	165	Compare Version Numbers	19.70%	Medium														
Hash Table																			
		349	Intersection of Two Arrays	46.60%	Easy	set.intersection(t)													
		350	Intersection of Two Arrays II	44.30%	Easy	(countera & counterb).elements()													
		599	Minimum Index Sum of Two Lists	57.50%	Easy														
		299	Bulls and Cows	34.00%	Medium														
		49	Group Anagrams	33.30%	Medium	count sort may make the str sort quicker..													
		242	Valid Anagram	45.70%	Easy	hashmap is faster than len_26 char													
		383	Ransom Note	46.70%	Easy														
		447	Number of Boomerangs	44.10%	Easy														
		356	Line Reflection	30.20%	Medium														
	gcd	592	Fraction Addition and Subtraction	46.80%	Medium	gcd, and re													

	gcd	365	Water and Jug Problem	26.70%	Medium								
	gcd	149	Max Points on a Line	15.40%	Hard								
		249	Group Shifted Strings	40.30%	Medium								
		187	Repeated DNA Sequences	30.60%	Medium								
word distance not edit distance	traverse	243	Shortest Word Distance	51.60%	Easy	just traverse the word list, update the distance, the initial set is important							
		244	Shortest Word Distance II	36.30%	Medium								
	traverse	245	Shortest Word Distance III	49.80%	Medium	only need to slightly modify 243							
		387	First Unique Character in a String	46.40%	Easy								
		594	Longest Harmonious Subsequence	36.20%	Easy								
		423	Reconstruct Original Digits from English	43.20%	Medium								
		451	Sort Characters By Frequency	50.60%	Medium								
		500	Keyboard Row	60.30%	Easy								
		575	Distribute Candies	0.648	Easy								
		554	Brick Wall	41.60%	Medium								
		274	H-Index	32.70%	Medium								
		275	H-Index II	33.90%	Medium								
		609	Find Duplicate File in System	54.80%	Medium								
		336	Palindrome Pairs	25.60%	Hard								