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📁 Java	1. LinkedListCycle	5 years ago
📁 MySQL	Create product-sales-analysis-i.sql	5 days ago
📁 Python	Update minimize-rounding-error-to-meet-target.py	4 days ago
📁 Shell	update	8 months ago
📄 .travis.yml	Add Travis CI to do automated testing on all PRs	last year
📄 LICENSE.md	update	8 months ago
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LeetCode

language Python / C++ 11 license MIT update weekly progress 1070 / 1070 say thanks build passing

- R.I.P. to my old Leetcode repository, where there were ever 5.7k+ stars and 2.2k+ forks. 🙏
- Since free questions may be even mistakenly taken down by some companies, only solutions will be post on now.
- For more solutions of questions, you can see my [LintCode](#) repository.
- There are new LeetCode questions every week. I'll keep updating for full summary and better solutions.
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Bit Manipulation

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0136	Single Number	C++ Python	$O(n)$	$O(1)$	Easy		
0137	Single Number II	C++ Python	$O(n)$	$O(1)$	Medium		
0190	Reverse Bits	C++ Python	$O(1)$	$O(1)$	Easy		
0191	Number of 1 Bits	C++ Python	$O(1)$	$O(1)$	Easy		
0201	Bitwise AND of Numbers Range	C++ Python	$O(1)$	$O(1)$	Medium		
0231	Power of Two	C++ Python	$O(1)$	$O(1)$	Easy	LintCode	
0260	Single Number III	C++ Python	$O(n)$	$O(1)$	Medium		
0268	Missing Number	C++ Python	$O(n)$	$O(1)$	Medium	LintCode	

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0318	Maximum Product of Word Lengths	C++ Python	$O(n) \sim O(n^2)$	$O(n)$	Medium		Bit Manipulation, Counting Sort, Pruning
0342	Power of Four	C++ Python	$O(1)$	$O(1)$	Easy		
0371	Sum of Two Integers	C++ Python	$O(1)$	$O(1)$	Easy	LintCode	
0389	Find the Difference	C++ Python	$O(n)$	$O(1)$	Easy		
0393	UTF-8 Validation	C++ Python	$O(n)$	$O(1)$	Medium		
0401	Binary Watch	C++ Python	$O(1)$	$O(1)$	Easy		
0411	Minimum Unique Word Abbreviation	C++ Python	$O(2^n)$	$O(n)$	Hard		
0421	Maximum XOR of Two Numbers in an Array	C++ Python	$O(n)$	$O(n)$	Medium		
0461	Hamming Distance	C++ Python	$O(1)$	$O(1)$	Easy		
0462	Minimum Moves to Equal Array Elements II	C++ Python	$O(n)$ on average	$O(1)$	Medium		
0477	Total Hamming Distance	C++ Python	$O(n)$	$O(1)$	Medium		
0645	Set Mismatch	C++ Python	$O(n)$	$O(1)$	Easy		
0693	Binary Number with Alternating Bits	C++ Python	$O(1)$	$O(1)$	Easy		
0762	Prime Number of Set Bits in Binary Representation	C++ Python	$O(1)$	$O(1)$	Easy		
0868	Binary Gap	C++ Python	$O(1)$	$O(1)$	Easy		
0898	Bitwise ORs of Subarrays	C++ Python	$O(n)$	$O(1)$	Medium		

Array

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0015	3 Sum	C++ Python	$O(n^2)$	$O(1)$	Medium		Two Pointers
0016	3 Sum Closest	C++ Python	$O(n^2)$	$O(1)$	Medium		Two Pointers
0018	4 Sum	C++ Python	$O(n^3)$	$O(1)$	Medium		Two Pointers
0026	Remove Duplicates from Sorted Array	C++ Python	$O(n)$	$O(1)$	Easy		Two Pointers

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0027	Remove Element	C++ Python	$O(n)$	$O(1)$	Easy		
0031	Next Permutation	C++ Python	$O(n)$	$O(1)$	Medium		Tricky
0041	First Missing Positive	C++ Python	$O(n)$	$O(1)$	Hard		Tricky
0048	Rotate Image	C++ Python	$O(n^2)$	$O(1)$	Medium		
0054	Spiral Matrix	C++ Python	$O(m * n)$	$O(1)$	Medium		
0059	Spiral Matrix II	C++ Python	$O(n^2)$	$O(1)$	Medium		
0066	Plus One	C++ Python	$O(n)$	$O(1)$	Easy		
0073	Set Matrix Zeroes	C++ Python	$O(m * n)$	$O(1)$	Medium		
0080	Remove Duplicates from Sorted Array II	C++ Python	$O(n)$	$O(1)$	Medium		Two Pointers
0118	Pascal's Triangle	C++ Python	$O(n^2)$	$O(1)$	Easy		
0119	Pascal's Triangle II	C++ Python	$O(n^2)$	$O(1)$	Easy		
0121	Best Time to Buy and Sell Stock	C++ Python	$O(n)$	$O(1)$	Easy		
0128	Longest Consecutive Sequence	C++ Python	$O(n)$	$O(n)$	Hard		Tricky
0157	Read N Characters Given Read4	C++ Python	$O(n)$	$O(1)$	Easy		
0158	Read N Characters Given Read4 II - Call multiple times	C++ Python	$O(n)$	$O(1)$	Hard		
0163	Missing Ranges	C++ Python	$O(n)$	$O(1)$	Medium		
0169	Majority Element	C++ Python	$O(n)$	$O(1)$	Easy		
0189	Rotate Array	C++ Python	$O(n)$	$O(1)$	Easy		
0209	Minimum Size Subarray Sum	C++ Python	$O(n)$	$O(1)$	Medium		Binary Search
0215	Kth Largest Element in an Array	C++ Python	$O(n) \sim O(n^2)$	$O(1)$	Medium	EPI	
0228	Summary Ranges	C++ Python	$O(n)$	$O(1)$	Medium		
0229	Majority Element II	C++ Python	$O(n)$	$O(1)$	Medium		
0238	Product of Array Except Self	C++ Python	$O(n)$	$O(1)$	Medium	LintCode	

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0240	Search a 2D Matrix II	C++ Python	$O(m + n)$	$O(1)$	Medium	EPI, LintCode	
0243	Shortest Word Distance	C++ Python	$O(n)$	$O(1)$	Easy		
0245	Shortest Word Distance III	C++ Python	$O(n)$	$O(1)$	Medium		
0251	Flatten 2D Vector	C++ Python	$O(1)$	$O(1)$	Medium		
0277	Find the Celebrity	C++ Python	$O(n)$	$O(1)$	Medium	, EPI	
0289	Game of Life	C++ Python	$O(m * n)$	$O(1)$	Medium		
0293	Flip Game	C++ Python	$O(n * (c+1))$	$O(1)$	Easy		
0296	Best Meeting Point	C++ Python	$O(m * n)$	$O(m + n)$	Hard		
0311	Sparse Matrix Multiplication	C++ Python	$O(m * n * l)$	$O(m * l)$	Medium		
0334	Increasing Triplet Subsequence	C++ Python	$O(n)$	$O(1)$	Medium		
0370	Range Addition	C++ Python	$O(k + n)$	$O(1)$	Medium		
0384	Shuffle an Array	C++ Python	$O(n)$	$O(n)$	Medium	EPI	
0396	Rotate Function	C++ Python	$O(n)$	$O(1)$	Easy		
0412	Fizz Buzz	C++ Python	$O(n)$	$O(1)$	Easy		
0414	Third Maximum Number	C++ Python	$O(n)$	$O(1)$	Easy		
0419	Battleships in a Board	C++ Python	$O(m * n)$	$O(1)$	Medium		
0422	Valid Word Square	C++ Python	$O(m * n)$	$O(1)$	Easy		
0442	Find All Duplicates in an Array	C++ Python	$O(n)$	$O(1)$	Medium		
0448	Find All Numbers Disappeared in an Array	C++ Python	$O(n)$	$O(1)$	Easy		
0531	Lonely Pixel I	C++ Python	$O(m * n)$	$O(m + n)$	Medium		
0533	Lonely Pixel II	C++ Python	$O(m * n)$	$O(m * n)$	Medium		
0565	Array Nesting	C++ Python	$O(n)$	$O(1)$	Medium		
0566	Reshape the Matrix	C++ Python	$O(m * n)$	$O(m * n)$	Easy		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0581	Shortest Unsorted Continuous Subarray	C++ Python	$O(n)$	$O(1)$	Easy		
0605	Can Place Flowers	C++ Python	$O(n)$	$O(1)$	Easy		
0624	Maximum Distance in Arrays	C++ Python	$O(n)$	$O(1)$	Easy		
0643	Maximum Average Subarray I	C++ Python	$O(n)$	$O(1)$	Easy		Math
0644	Maximum Average Subarray II	C++ Python	$O(n)$	$O(n)$	Hard		Math
0661	Image Smoother	C++ Python	$O(m * n)$	$O(1)$	Easy		
0665	Non-decreasing Array	C++ Python	$O(n)$	$O(1)$	Easy		
0667	Beautiful Arrangement II	C++ Python	$O(n)$	$O(1)$	Medium		
0670	Maximum Swap	C++ Python	$O(\log n)$	$O(\log n)$	Medium		
0674	Longest Continuous Increasing Subsequence	C++ Python	$O(n)$	$O(1)$	Easy		
0683	K Empty Slots	C++ Python	$O(n)$	$O(n)$	Hard		
0697	Degree of an Array	C++ Python	$O(n)$	$O(n)$	Easy		
0713	Subarray Product Less Than K	C++ Python	$O(n)$	$O(1)$	Medium		
0717	1-bit and 2-bit Characters	C++ Python	$O(n)$	$O(1)$	Easy		Greedy
0723	Candy Crush	C++ Python	$O((R * C)^2)$	$O(1)$	Medium		
0724	Find Pivot Index	C++ Python	$O(n)$	$O(1)$	Easy		
0729	My Calendar I	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0731	My Calendar II	C++ Python	$O(n^2)$	$O(n)$	Medium		
0732	My Calendar III	C++ Python	$O(n^2)$	$O(n)$	Hard		
0747	Largest Number At Least Twice of Others	C++ Python	$O(n)$	$O(1)$	Easy		
0755	Pour Water	C++ Python	$O(v * n)$	$O(1)$	Medium		
0766	Toeplitz Matrix	C++ Python	$O(m * n)$	$O(1)$	Easy		
0768	Max Chunks To Make Sorted II	C++ Python	$O(n \log n)$	$O(n)$	Hard		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0769	Max Chunks To Make Sorted	C++ Python	$O(n)$	$O(1)$	Medium		
0778	Swim in Rising Water	C++ Python	$O(n^2)$	$O(n^2)$	Hard		Union Find
0792	Number of Matching Subsequences	C++ Python	$O(n + w)$	$O(k)$	Medium		
0794	Valid Tic-Tac-Toe State	C++ Python	$O(1)$	$O(1)$	Medium		
0795	Number of Subarrays with Bounded Maximum	C++ Python	$O(n)$	$O(1)$	Medium		
0803	Bricks Falling When Hit	C++ Python	$O(r * c)$	$O(r * c)$	Hard		Union Find
0807	Max Increase to Keep City Skyline	C++ Python	$O(n^2)$	$O(n)$	Medium		
0821	Shortest Distance to a Character	C++ Python	$O(n)$	$O(1)$	Easy		
0830	Positions of Large Groups	C++ Python	$O(n)$	$O(1)$	Easy		
0832	Flipping an Image	C++ Python	$O(n^2)$	$O(1)$	Easy		
0835	Image Overlap	C++ Python	$O(n^4)$	$O(n^2)$	Medium		
0840	Magic Squares In Grid	C++ Python	$O(m * n)$	$O(1)$	Easy		
0842	Split Array into Fibonacci Sequence	C++ Python	$O(n^3)$	$O(n)$	Medium		
0845	Longest Mountain in Array	C++ Python	$O(n)$	$O(1)$	Medium		
0849	Maximize Distance to Closest Person	C++ Python	$O(n)$	$O(1)$	Easy		
0860	Lemonade Change	C++ Python	$O(n)$	$O(1)$	Easy		
0868	Transpose Matrix	C++ Python	$O(r * c)$	$O(1)$	Easy		
0885	Spiral Matrix III	C++ Python	$O(\max(m, n)^2)$	$O(1)$	Medium		
0888	Fair Candy Swap	C++ Python	$O(m + n)$	$O(m + n)$	Easy		
0896	Monotonic Array	C++ Python	$O(n)$	$O(1)$	Easy		
0905	Sort Array By Parity	C++ Python	$O(n)$	$O(1)$	Easy		
0909	Snakes and Ladders	C++ Python	$O(n^2)$	$O(n^2)$	Medium		
0915	Partition Array into Disjoint Intervals	C++ Python	$O(n)$	$O(n)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0918	Maximum Sum Circular Subarray	C++ Python	$O(n)$	$O(1)$	Medium		
0922	Sort Array By Parity II	C++ Python	$O(n)$	$O(1)$	Easy		
0923	3Sum With Multiplicity	C++ Python	$O(n^2)$	$O(n)$	Medium		
0927	Three Equal Parts	C++ Python	$O(n)$	$O(1)$	Hard		
0932	Beautiful Array	C++ Python	$O(n)$	$O(n)$	Medium		
0941	Valid Mountain Array	C++ Python	$O(n)$	$O(1)$	Easy		
0945	Minimum Increment to Make Array Unique	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0947	Most Stones Removed with Same Row or Column	C++ Python	$O(n)$	$O(n)$	Medium		Union Find
0949	Largest Time for Given Digits	C++ Python	$O(1)$	$O(1)$	Easy		
0950	Reveal Cards In Increasing Order	C++ Python	$O(n)$	$O(n)$	Medium		
0952	Largest Component Size by Common Factor	C++ Python	$O(f * n)$	$O(p + n)$	Hard		Union Find
0954	Array of Doubled Pairs	C++ Python	$O(n + k \log k)$	$O(k)$	Medium		
0961	N-Repeated Element in Size 2N Array	C++ Python	$O(n)$	$O(1)$	Easy		
0978	Longest Turbulent Subarray	C++ Python	$O(n)$	$O(1)$	Medium		
0985	Sum of Even Numbers After Queries	C++ Python	$O(n + q)$	$O(1)$	Easy		
0989	Add to Array-Form of Integer	C++ Python	$O(n + \log k)$	$O(1)$	Easy		
0997	Find the Town Judge	C++ Python	$O(t + n)$	$O(n)$	Easy		
0999	Available Captures for Rook	C++ Python	$O(1)$	$O(1)$	Easy		
1002	Find Common Characters	C++ Python	$O(n * l)$	$O(1)$	Easy		
1007	Minimum Domino Rotations For Equal Row	C++ Python	$O(n)$	$O(1)$	Medium		
1013	Pairs of Songs With Total Durations Divisible by 60	C++ Python	$O(n)$	$O(1)$	Easy		
1014	Best Sightseeing Pair	C++ Python	$O(n)$	$O(1)$	Medium		
1018	Binary Prefix Divisible By 5	C++ Python	$O(n)$	$O(1)$	Easy		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
1020	Partition Array Into Three Parts With Equal Sum	C++ Python	$O(n)$	$O(1)$	Easy		
1030	Matrix Cells in Distance Order	C++ Python	$O(m * n)$	$O(1)$	Easy		
1031	Maximum Sum of Two Non-Overlapping Subarrays	C++ Python	$O(n)$	$O(1)$	Medium		
1051	Height Checker	C++ Python	$O(n \log n)$	$O(n)$	Easy		
1052	Grumpy Bookstore Owner	C++ Python	$O(n)$	$O(1)$	Medium		
1072	Flip Columns For Maximum Number of Equal Rows	C++ Python	$O(m * n)$	$O(m * n)$	Medium		
1074	Number of Submatrices That Sum to Target	C++ Python	$O(m^2 * n)$	$O(n)$	Hard		



String

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0005	Longest Palindromic Substring	C++ Python	$O(n)$	$O(n)$	Medium		Manacher's Algorithm
0006	ZigZag Conversion	C++ Python	$O(n)$	$O(1)$	Easy		
0008	String to Integer (atoi)	C++ Python	$O(n)$	$O(1)$	Easy		
0014	Longest Common Prefix	C++ Python	$O(n * k)$	$O(1)$	Easy		
0028	Implement strStr()	C++ Python	$O(n + k)$	$O(k)$	Easy		KMP Algorithm
0038	Count and Say	C++ Python	$O(n * 2^n)$	$O(2^n)$	Easy		
0043	Multiply Strings	C++ Python	$O(m * n)$	$O(m + n)$	Medium		
0058	Length of Last Word	C++ Python	$O(n)$	$O(1)$	Easy		
0067	Add Binary	C++ Python	$O(n)$	$O(1)$	Easy		
0068	Text Justification	C++ Python	$O(n)$	$O(1)$	Hard		
0125	Valid Palindrome	C++ Python	$O(n)$	$O(1)$	Easy		
0151	Reverse Words in a String	C++ Python	$O(n)$	$O(1)$	Medium		
0161	One Edit Distance	C++ Python	$O(m + n)$	$O(1)$	Medium		
0165	Compare Version Numbers	C++ Python	$O(n)$	$O(1)$	Easy		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0186	Reverse Words in a String II	C++ Python	$O(n)$	$O(1)$	Medium		
0214	Shortest Palindrome	C++ Python	$O(n)$	$O(n)$	Hard		KMP Algorithm Manacher's Algorithm
0242	Valid Anagram	C++ Python	$O(n)$	$O(1)$	Easy	LintCode	
0271	Encode and Decode Strings	C++ Python	$O(n)$	$O(1)$	Medium		
0273	Integer to English Words	C++ Python	$O(1)$	$O(1)$	Hard		
0306	Additive Number	C++ Python	$O(n^3)$	$O(n)$	Medium		
0383	Ransom Note	C++ Python	$O(n)$	$O(1)$	Easy	EPI	
0405	Convert a Number to Hexadecimal	C++ Python	$O(n)$	$O(1)$	Easy		
0408	Valid Word Abbreviation	C++ Python	$O(n)$	$O(1)$	Easy		
0415	Add Strings	C++ Python	$O(n)$	$O(1)$	Easy		
0420	Strong Password Checker	C++ Python	$O(n)$	$O(1)$	Hard		
0434	Number of Segments in a String	C++ Python	$O(n)$	$O(1)$	Easy		
0443	String Compression	C++ Python	$O(n)$	$O(1)$	Easy		
0459	Repeated Substring Pattern	C++ Python	$O(n)$	$O(n)$	Easy		KMP Algorithm
0468	Validate IP Address	C++ Python	$O(1)$	$O(1)$	Medium		
0482	License Key Formatting	C++ Python	$O(n)$	$O(1)$	Easy		
0520	Detect Capital	C++ Python	$O(l)$	$O(1)$	Easy		
0521	Longest Uncommon Subsequence I	C++ Python	$O(\min(a, b))$	$O(1)$	Easy		
0522	Longest Uncommon Subsequence II	C++ Python	$O(l * n^2)$	$O(1)$	Medium		Sort
0524	Longest Word in Dictionary through Deleting	C++ Python	$O((d * l) * \log d)$	$O(1)$	Medium		Sort
0527	Word Abbreviation	C++ Python	$O(n * l) \sim O(n^2 * l^2)$	$O(n * l)$	Hard		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0539	Minimum Time Difference	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0541	Reverse String II	C++ Python	$O(n)$	$O(1)$	Easy		
0551	Student Attendance Record I	C++ Python	$O(n)$	$O(1)$	Easy		
0556	Next Greater Element III	C++ Python	$O(1)$	$O(1)$	Medium		
0557	Reverse Words in a String III	C++ Python	$O(n)$	$O(1)$	Easy		
0564	Find the Closest Palindrome	C++ Python	$O(l)$	$O(l)$	Hard		
0591	Tag Validator	C++ Python	$O(n)$	$O(n)$	Hard		
0616	Add Bold Tag in String	C++ Python	$O(n * d * l)$	$O(n)$	Medium		
0647	Palindromic Substrings	C++ Python	$O(n)$	$O(n)$	Medium		Manacher's Algorithm
0648	Replace Words	C++ Python	$O(n)$	$O(t)$	Medium		Trie
0657	Judge Route Circle	C++ Python	$O(n)$	$O(1)$	Easy		
0678	Valid Parenthesis String	C++ Python	$O(n)$	$O(1)$	Medium		
0680	Valid Palindrome II	C++ Python	$O(n)$	$O(1)$	Easy		
0681	Next Closest Time	C++ Python	$O(1)$	$O(1)$	Medium		
0686	Repeated String Match	C++ Python	$O(n + m)$	$O(1)$	Easy		Rabin-Karp Algorithm
0696	Count Binary Substrings	C++ Python	$O(n)$	$O(1)$	Easy		
0720	Longest Word in Dictionary	C++ Python	$O(n)$	$O(t)$	Easy		Trie
0722	Remove Comments	C++ Python	$O(n)$	$O(k)$	Medium		
0751	IP to CIDR	C++ Python	$O(n)$	$O(1)$	Medium		
0758	Bold Words in String	C++ Python	$O(n * l)$	$O(t)$	Easy	 , variant of Add Bold Tag in String	
0791	Custom Sort String	C++ Python	$O(n)$	$O(1)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0796	Rotate String	C++ Python	$O(n)$	$O(1)$	Easy		KMP Algorithm Rabin-Karp Algorithm
0804	Unique Morse Code Words	C++ Python	$O(n)$	$O(n)$	Easy		
0806	Number of Lines To Write String	C++ Python	$O(n)$	$O(1)$	Easy		
0809	Expressive Words	C++ Python	$O(n + s)$	$O(l + s)$	Medium		
0816	Ambiguous Coordinates	C++ Python	$O(n^4)$	$O(n)$	Medium		
0819	Most Common Word	C++ Python	$O(m + n)$	$O(m + n)$	Easy		
0820	Short Encoding of Words	C++ Python	$O(n)$	$O(t)$	Medium		Trie
0824	Goat Latin	C++ Python	$O(n + w^2)$	$O(l)$	Easy		
0831	Masking Personal Information	C++ Python	$O(1)$	$O(1)$	Medium		
0833	Find And Replace in String	C++ Python	$O(n + m)$	$O(n)$	Medium		
0839	Similar String Groups	C++ Python	$O(n^2 * l)$	$O(n)$	Hard		Union Find
0848	Shifting Letters	C++ Python	$O(n)$	$O(1)$	Medium		
0859	Buddy Strings	C++ Python	$O(n)$	$O(1)$	Easy		
0880	Decoded String at Index	C++ Python	$O(n)$	$O(1)$	Medium		
0884	Uncommon Words from Two Sentences	C++ Python	$O(m + n)$	$O(m + n)$	Easy		
0890	Find and Replace Pattern	C++ Python	$O(n * l)$	$O(1)$	Medium		
0893	Groups of Special-Equivalent Strings	C++ Python	$O(n * l)$	$O(n)$	Easy		
0916	Word Subsets	C++ Python	$O(m + n)$	$O(1)$	Medium		
0917	Reverse Only Letters	C++ Python	$O(n)$	$O(1)$	Easy		
0925	Long Pressed Name	C++ Python	$O(n)$	$O(1)$	Easy		
0929	Unique Email Addresses	C++ Python	$O(n * l)$	$O(n * l)$	Easy		
0939	Minimum Area Rectangle	C++ Python	$O(n^{1.5})$ on average	$O(n)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0942	DI String Match	C++ Python	$O(n)$	$O(1)$	Easy		
0944	Delete Columns to Make Sorted	C++ Python	$O(n * l)$	$O(1)$	Medium		
0953	Verifying an Alien Dictionary	C++ Python	$O(n * l)$	$O(1)$	Easy		
0955	Delete Columns to Make Sorted II	C++ Python	$O(n * l)$	$O(n)$	Medium		
1016	Binary String With Substrings Representing 1 To N	C++ Python	$O(n^2)$	$O(1)$	Medium		
1023	Camelcase Matching	C++ Python	$O(n * l)$	$O(1)$	Medium		
1061	Lexicographically Smallest Equivalent String	C++ Python	$O(n)$	$O(n)$	Medium		Union Find
1056	Confusing Number	C++ Python	$O(\log n)$	$O(1)$	Easy		
1071	Greatest Common Divisor of Strings	C++ Python	$O(m + n)$	$O(1)$	Easy		

Linked List


#	Title	Solution	Time	Space	Difficulty	Tag	Note
0002	Add Two Numbers	C++ Python	$O(n)$	$O(1)$	Medium		
0021	Merge Two Sorted Lists	C++ Python	$O(n)$	$O(1)$	Easy		
0023	Merge k Sorted Lists	C++ Python	$O(n \log k)$	$O(1)$	Hard		Heap, Divide and Conquer
0024	Swap Nodes in Pairs	C++ Python	$O(n)$	$O(1)$	Easy		
0025	Reverse Nodes in k-Group	C++ Python	$O(n)$	$O(1)$	Hard		
0061	Rotate List	C++ Python	$O(n)$	$O(1)$	Medium		
0082	Remove Duplicates from Sorted List II	C++ Python	$O(n)$	$O(1)$	Medium		
0083	Remove Duplicates from Sorted List	C++ Python	$O(n)$	$O(1)$	Easy		
0092	Reverse Linked List II	C++ Python	$O(n)$	$O(1)$	Medium		
0138	Copy List with Random Pointer	C++ Python	$O(n)$	$O(1)$	Medium		
0160	Intersection of Two Linked Lists	C++ Python	$O(m + n)$	$O(1)$	Easy		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0203	Remove Linked List Elements	C++ Python	$O(n)$	$O(1)$	Easy		
0206	Reverse Linked List	C++ Python	$O(n)$	$O(1)$	Easy		
0234	Palindrome Linked List	C++ Python	$O(n)$	$O(1)$	Easy		
0237	Delete Node in a Linked List	C++ Python	$O(1)$	$O(1)$	Easy	LintCode	
0328	Odd Even Linked List	C++ Python	$O(n)$	$O(1)$	Medium		
0369	Plus One Linked List	C++ Python	$O(n)$	$O(1)$	Medium		Two Pointers
0445	Add Two Numbers II	C++ Python	$O(m + n)$	$O(m + n)$	Medium		
0725	Split Linked List in Parts	C++ Python	$O(n + k)$	$O(1)$	Medium		
0817	Linked List Components	C++ Python	$O(m + n)$	$O(m)$	Medium		
0986	Interval List Intersections	C++ Python	$O(m + n)$	$O(1)$	Medium		

Stack

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0020	Valid Parentheses	C++ Python	$O(n)$	$O(n)$	Easy		
0032	Longest Valid Parentheses	C++ Python	$O(n)$	$O(1)$	Hard		
0071	Simplify Path	C++ Python	$O(n)$	$O(n)$	Medium		
0084	Largest Rectangle in Histogram	C++ Python	$O(n)$	$O(n)$	Hard		Mono Stack, DP
0085	Maximal Rectangle	C++ Python	$O(m * n)$	$O(n)$	Hard	EPI	Mono Stack
0101	Symmetric Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0150	Evaluate Reverse Polish Notation	C++ Python	$O(n)$	$O(n)$	Medium		
0155	Min Stack	C++ Python	$O(n)$	$O(1)$	Easy		
0173	Binary Search Tree Iterator	C++ Python	$O(1)$	$O(h)$	Medium		
0224	Basic Calculator	C++ Python	$O(n)$	$O(n)$	Hard		
0227	Basic Calculator II	C++ Python	$O(n)$	$O(n)$	Medium		


#	Title	Solution	Time	Space	Difficulty	Tag	Note
0232	Implement Queue using Stacks	C++ Python	$O(1)$, <i>amortized</i>	$O(n)$	Easy	EPI, LintCode	
0255	Verify Preorder Sequence in Binary Search Tree	C++ Python	$O(n)$	$O(1)$	Medium		
0272	Closest Binary Search Tree Value II	C++ Python	$O(h + k)$	$O(h)$	Hard		
0331	Verify Preorder Serialization of a Binary Tree	C++ Python	$O(n)$	$O(1)$	Medium		
0341	Flatten Nested List Iterator	C++ Python	$O(n)$	$O(h)$	Medium		Iterator
0385	Mini Parser	C++ Python	$O(n)$	$O(h)$	Medium		
0394	Decode String	C++ Python	$O(n)$	$O(n)$	Medium		
0439	Ternary Expression Parser	C++ Python	$O(n)$	$O(1)$	Medium		
0456	132 Pattern	C++ Python	$O(n)$	$O(n)$	Medium		
0636	Exclusive Time of Functions	C++ Python	$O(n)$	$O(n)$	Medium		
0682	Baseball Game	C++ Python	$O(n)$	$O(n)$	Easy		
0726	Number of Atoms	C++ Python	$O(n)$	$O(n)$	Hard		
0735	Asteroid Collision	C++ Python	$O(n)$	$O(n)$	Medium		
0736	Parse Lisp Expression	C++ Python	$O(n^2)$	$O(n^2)$	Hard		
0739	Daily Temperatures	C++ Python	$O(n)$	$O(n)$	Medium		
0770	Basic Calculator IV	C++ Python	add: $O(d * t)$ sub: $O(d * t)$ mul: $O(d * t^2)$ eval: $O(d * t)$ to_list: $O(d * t \log t)$	$O(e + d * t)$	Hard		
0772	Basic Calculator III	C++ Python	$O(n)$	$O(n)$	Hard		
0853	Car Fleet	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0856	Score of Parentheses	C++ Python	$O(n)$	$O(1)$	Medium		
0872	Leaf-Similar Trees	C++ Python	$O(n)$	$O(h)$	Easy		


#	Title	Solution	Time	Space	Difficulty	Tag	Note
0895	Maximum Frequency Stack	C++ Python	$O(1)$	$O(n)$	Hard		Hash
0901	Online Stock Span	C++ Python	$O(n)$	$O(n)$	Medium		
0921	Minimum Add to Make Parentheses Valid	C++ Python	$O(n)$	$O(1)$	Medium		
0946	Validate Stack Sequences	C++ Python	$O(n)$	$O(n)$	Medium		
1003	Check If Word Is Valid After Substitutions	C++ Python	$O(n)$	$O(n)$	Medium		
1019	Next Greater Node In Linked List	C++ Python	$O(n)$	$O(n)$	Medium		Mono Stack
1021	Remove Outermost Parentheses	C++ Python	$O(n)$	$O(1)$	Easy		
1047	Remove All Adjacent Duplicates In String	C++ Python	$O(n)$	$O(n)$	Easy		
1063	Number of Valid Subarrays	C++ Python	$O(n)$	$O(n)$	Hard		Mono Stack

Queue

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0239	Sliding Window Maximum	C++ Python	$O(n)$	$O(k)$	Hard	EPI, LintCode	
0281	Zigzag Iterator	C++ Python	$O(n)$	$O(k)$	Medium		
0346	Moving Average from Data Stream	C++ Python	$O(1)$	$O(w)$	Easy		
0862	Shortest Subarray with Sum at Least K	C++ Python	$O(n)$	$O(n)$	Hard		
0933	Number of Recent Calls	C++ Python	$O(1)$ on average	$O(w)$	Easy		

Heap

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0264	Ugly Number II	C++ Python	$O(n)$	$O(1)$	Medium	CTCI, LintCode	BST, Heap
0295	Find Median from Data Stream	C++ Python	$O(n \log n)$	$O(n)$	Hard	EPI, LintCode	BST, Heap
0313	Super Ugly Number	C++ Python	$O(n * k)$	$O(n + k)$	Medium		BST, Heap
0358	Rearrange String k Distance Apart	C++ Python	$O(n)$	$O(n)$	Hard		Greedy, Heap
0373	Find K Pairs with Smallest Sums	C++ Python	$O(k * \log(\min(n, m, k)))$	$O(\min(n, m, k))$	Medium		


#	Title	Solution	Time	Space	Difficulty	Tag	Note
0378	Kth Smallest Element in a Sorted Matrix	C++ Python	$O(k * \log(\min(n, m, k)))$	$O(\min(n, m, k))$	Medium	LintCode	
0407	Trapping Rain Water II	C++ Python	$O(m * n * (\log m + \log n))$	$O(m * n)$	Hard	LintCode	
0632	Smallest Range	C++ Python	$O(n \log k)$	$O(k)$	Hard		
0703	Kth Largest Element in a Stream	C++ Python	$O(n \log k)$	$O(k)$	Easy		
0846	Hand of Straights	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0855	Exam Room	C++ Python	seat: $O(\log n)$ leave: $O(\log n)$	$O(n)$	Medium		BST, Hash
0857	Minimum Cost to Hire K Workers	C++ Python	$O(n \log n)$	$O(n)$	Hard		Sort
0871	Minimum Number of Refueling Stops	C++ Python	$O(n \log n)$	$O(n)$	Hard		Sort
1046	Last Stone Weight	C++ Python	$O(n \log n)$	$O(n)$	Easy		
1057	Campus Bikes	C++ Python	$O((w * b) * \log(w * b))$	$O(w * b)$	Medium		

Tree



#	Title	Solution	Time	Space	Difficulty	Tag	Note
0094	Binary Tree Inorder Traversal	C++ Python	$O(n)$	$O(1)$	Medium		Morris Traversal
0099	Recover Binary Search Tree	C++ Python	$O(n)$	$O(1)$	Hard		Morris Traversal
0144	Binary Tree Preorder Traversal	C++ Python	$O(n)$	$O(1)$	Medium		Morris Traversal
0145	Binary Tree Postorder Traversal	C++ Python	$O(n)$	$O(1)$	Hard		Morris Traversal
0208	Implement Trie (Prefix Tree)	C++ Python	$O(n)$	$O(1)$	Medium		Trie
0211	Add and Search Word - Data structure design	C++ Python	$O(\min(n, h))$	$O(\min(n, h))$	Medium		Trie, DFS
0226	Invert Binary Tree	C++ Python	$O(n)$	$O(h)$, $O(w)$	Easy		
0297	Serialize and Deserialize Binary Tree	C++ Python	$O(n)$	$O(h)$	Hard	LintCode	DFS
0307	Range Sum Query - Mutable	C++ Python	ctor: $O(n)$, update: $O(\log n)$, query: $O(\log n)$	$O(n)$	Medium	LintCode	DFS, Segment Tree, BIT










#	Title	Solution	Time	Space	Difficulty	Tag	Note
0308	Range Sum Query 2D - Mutable	C++ Python	ctor: $O(m * n)$, update: $O(\log m + \log n)$, query: $O(\log m + \log n)$	$O(m * n)$	Hard		DFS, Segment Tree, BIT
0315	Count of Smaller Numbers After Self	C++ Python	$O(n \log n)$	$O(n)$	Hard	LintCode	BST, BIT, Divide and Conquer
0525	Contiguous Array	C++ Python	$O(n)$	$O(n)$	Medium		
0529	Minesweeper	C++ Python	$O(m * n)$	$O(m + n)$	Medium		
0536	Construct Binary Tree from String	C++ Python	$O(n)$	$O(h)$	Medium		
0538	Convert BST to Greater Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0543	Diameter of Binary Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0545	Boundary of Binary Tree	C++ Python	$O(n)$	$O(h)$	Medium		
0548	Split Array with Equal Sum	C++ Python	$O(n^2)$	$O(n)$	Medium		
0563	Binary Tree Tilt	C++ Python	$O(n)$	$O(n)$	Easy		
0572	Subtree of Another Tree	C++ Python	$O(m * n)$	$O(h)$	Easy		
0606	Construct String from Binary Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0617	Merge Two Binary Trees	C++ Python	$O(n)$	$O(h)$	Easy		
0623	Add One Row to Tree	C++ Python	$O(n)$	$O(h)$	Medium		
0637	Average of Levels in Binary Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0652	Find Duplicate Subtrees	C++ Python	$O(n)$	$O(n)$	Medium		DFS, Hash
0653	Two Sum IV - Input is a BST	C++ Python	$O(n)$	$O(h)$	Easy		Two Pointers
0654	Maximum Binary Tree	C++ Python	$O(n)$	$O(n)$	Medium	LintCode	Mono Stack
0655	Print Binary Tree	C++ Python	$O(n)$	$O(h)$	Medium		
0662	Maximum Width of Binary Tree	C++ Python	$O(n)$	$O(h)$	Medium		DFS
0663	Equal Tree Partition	C++ Python	$O(n)$	$O(n)$	Medium		Hash
0677	Map Sum Pairs	C++ Python	$O(n)$	$O(t)$	Medium		Trie

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0684	Redundant Connection	C++ Python	$O(n)$	$O(n)$	Medium		Union Find
0685	Redundant Connection II	C++ Python	$O(n)$	$O(n)$	Hard		Union Find
0687	Longest Univalue Path	C++ Python	$O(n)$	$O(h)$	Easy		
0699	Falling Squares	C++ Python	$O(n \log n)$	$O(n)$	Hard		Segment Tree
0814	Binary Tree Pruning	C++ Python	$O(n)$	$O(h)$	Medium		DFS
0850	Rectangle Area II	C++ Python	$O(n \log n)$	$O(n)$	Hard		Segment Tree
0863	All Nodes Distance K in Binary Tree	C++ Python	$O(n)$	$O(n)$	Medium		DFS + BFS
0866	Smallest Subtree with all the Deepest Nodes	C++ Python	$O(n)$	$O(h)$	Medium		DFS
0889	Construct Binary Tree from Preorder and Postorder Traversal	C++ Python	$O(n)$	$O(h)$	Medium		DFS, stack
0897	Increasing Order Search Tree	C++ Python	$O(n)$	$O(h)$	Easy		DFS
0919	Complete Binary Tree Inserter	C++ Python	ctor: $O(n)$ insert: $O(1)$ get_root: $O(1)$	$O(n)$	Medium		
0938	Range Sum of BST	C++ Python	$O(n)$	$O(h)$	Medium		DFS
0951	Flip Equivalent Binary Trees	C++ Python	$O(n)$	$O(h)$	Medium		DFS
0958	Check Completeness of a Binary Tree	C++ Python	$O(n)$	$O(w)$	Medium		BFS
0965	Univalued Binary Tree	C++ Python	$O(n)$	$O(h)$	Easy		DFS
0971	Flip Binary Tree To Match Preorder Traversal	C++ Python	$O(n)$	$O(h)$	Medium		DFS
0979	Distribute Coins in Binary Tree	C++ Python	$O(n)$	$O(h)$	Medium		DFS
0987	Vertical Order Traversal of a Binary Tree	C++ Python	$O(n \log n)$	$O(n)$	Medium		DFS
0988	Smallest String Starting From Leaf	C++ Python	$O(n + l * h)$	$O(h)$	Medium		DFS
0993	Cousins in Binary Tree	C++ Python	$O(n)$	$O(h)$	Easy		DFS

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0998	Maximum Binary Tree II	C++ Python	$O(h)$	$O(1)$	Medium		
1008	Construct Binary Search Tree from Preorder Traversal	C++ Python	$O(n)$	$O(h)$	Medium		
1022	Sum of Root To Leaf Binary Numbers	C++ Python	$O(n)$	$O(h)$	Easy		
1026	Maximum Difference Between Node and Ancestor	C++ Python	$O(n)$	$O(h)$	Medium		DFS
1028	Recover a Tree From Preorder Traversal	C++ Python	$O(n)$	$O(h)$	Hard		DFS
1032	Stream of Characters	C++ C++ Python Python	ctor: $O(n)$ query: $O(m)$	$O(t)$	Hard		Aho–Corasick Automata , Trie
1038	Binary Search Tree to Greater Sum Tree	C++ Python	$O(n)$	$O(h)$	Medium		DFS
1065	Index Pairs of a String	C++ Python	$O(n + m + z)$	$O(t)$	Easy		Aho–Corasick Automata , Trie

Hash Table

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0001	Two Sum	C++ Python	$O(n)$	$O(n)$	Easy		
0003	Longest Substring Without Repeating Characters	C++ Python	$O(n)$	$O(1)$	Medium		
0030	Substring with Concatenation of All Words	C++ Python	$O((m + n) * k)$	$O(n * k)$	Hard		
0036	Valid Sudoku	C++ Python	$O(9^2)$	$O(9)$	Easy		
0049	Group Anagrams	C++ Python	$O(n * \log n)$	$O(n)$	Medium		
0076	Minimum Window Substring	C++ Python	$O(n)$	$O(k)$	Hard		
0149	Max Points on a Line	C++ Python	$O(n^2)$	$O(n)$	Hard		
0159	Longest Substring with At Most Two Distinct Characters	C++ Python	$O(n)$	$O(1)$	Hard		
0170	Two Sum III - Data structure design	C++ Python	$O(n)$	$O(n)$	Easy		
0187	Repeated DNA Sequences	Python	$O(n)$	$O(n)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0202	Happy Number	C++ Python	$O(k)$	$O(k)$	Easy		
0204	Count Primes	C++ Python	$O(n)$	$O(n)$	Easy		
0205	Isomorphic Strings	C++ Python	$O(n)$	$O(1)$	Easy		
0217	Contains Duplicate	C++ Python	$O(n)$	$O(n)$	Easy		
0219	Contains Duplicate II	C++ Python	$O(n)$	$O(n)$	Easy		
0244	Shortest Word Distance II	C++ Python	ctor: $O(n)$, lookup: $O(a + b)$	$O(n)$	Medium		
0246	Strobogrammatic Number	C++ Python	$O(n)$	$O(1)$	Easy		
0249	Group Shifted Strings	C++ Python	$O(n \log n)$	$O(n)$	Easy		
0266	Palindrome Permutation	C++ Python	$O(n)$	$O(1)$	Easy		
0288	Unique Word Abbreviation	C++ Python	ctor: $O(n)$, lookup: $O(1)$	$O(k)$	Easy		
0290	Word Pattern	C++ Python	$O(n)$	$O(c)$	Easy	variant of Isomorphic Strings	
0299	Bulls and Cows	C++ Python	$O(n)$	$O(1)$	Easy		
0305	Number of Islands II	C++ Python	$O(k)$	$O(k)$	Hard	LintCode, 	Union Find
0314	Binary Tree Vertical Order Traversal	C++ Python	$O(n)$	$O(n)$	Medium		BFS
0323	Number of Connected Components in an Undirected Graph	C++ Python	$O(n)$	$O(n)$	Medium		Union Find
0325	Maximum Size Subarray Sum Equals k	C++ Python	$O(n)$	$O(n)$	Medium		
0336	Palindrome Pairs	C++ Python	$O(n * k^2)$	$O(n * k)$	Hard		
0340	Longest Substring with At Most K Distinct Characters	C++ Python	$O(n)$	$O(1)$	Hard		
0356	Line Reflection	C++ Python	$O(n)$	$O(n)$	Medium		Hash, Two Pointers
0387	First Unique Character in a String	C++ Python	$O(n)$	$O(n)$	Easy		
0388	Longest Absolute File Path	C++ Python	$O(n)$	$O(d)$	Medium		Stack

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0409	Longest Palindrome	C++ Python	$O(n)$	$O(1)$	Easy		
0424	Longest Repeating Character Replacement	C++ Python	$O(n)$	$O(1)$	Medium		
0438	Find All Anagrams in a String	C++ Python	$O(n)$	$O(1)$	Easy		
0447	Number of Boomerangs	C++ Python	$O(n^2)$	$O(n)$	Easy		
0454	4Sum II	C++ Python	$O(n^2)$	$O(n^2)$	Medium		
0470	Implement Rand10() Using Rand7()	C++ Python	$O(1)$	$O(1)$	Medium		
0473	Matchsticks to Square	C++ Python	$O(n * s * 2^n)$	$O(n * (2^n + s))$	Medium		
0523	Continuous Subarray Sum	C++ Python	$O(n)$	$O(k)$	Medium		
0532	K-diff Pairs in an Array	C++ Python	$O(n)$	$O(n)$	Easy		
0554	Brick Wall	C++ Python	$O(n)$	$O(m)$	Medium		
0560	Subarray Sum Equals K	C++ Python	$O(n)$	$O(n)$	Medium		
0561	Array Partition I	C++ Python	$O(r)$	$O(r)$	Easy		
0575	Distribute Candies	C++ Python	$O(n)$	$O(n)$	Easy		
0594	Longest Harmonious Subsequence	C++ Python	$O(n)$	$O(n)$	Easy		
0599	Minimum Index Sum of Two Lists	C++ Python	$O((m + n) * l)$	$O(m * l)$	Easy		
0609	Find Duplicate File in System	C++ Python	$O(n * l)$	$O(n * l)$	Medium		
0721	Accounts Merge	C++ Python	$O(n \log n)$	$O(n)$	Medium		Union Find
0734	Sentence Similarity	C++ Python	$O(n + p)$	$O(p)$	Easy		
0737	Sentence Similarity II	C++ Python	$O(n + p)$	$O(p)$	Medium		Union Find
0748	Shortest Completing Word	C++ Python	$O(n)$	$O(1)$	Easy		
0760	Find Anagram Mappings	C++ Python	$O(n)$	$O(n)$	Easy		
0771	Jewels and Stones	C++ Python	$O(m + n)$	$O(n)$	Easy		
0811	Subdomain Visit Count	C++ Python	$O(n)$	$O(n)$	Easy		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0822	Card Flipping Game	C++ Python	$O(n)$	$O(n)$	Medium		
0825	Friends Of Appropriate Ages	C++ Python	$O(a^2 + n)$	$O(a)$	Medium		
0869	Reordered Power of 2	C++ Python	$O(1)$	$O(1)$	Medium		
0873	Length of Longest Fibonacci Subsequence	C++ Python	$O(n^2)$	$O(n)$	Medium		
0957	Prison Cells After N Days	C++ Python	$O(1)$	$O(1)$	Medium		
0966	Vowel Spellchecker	C++ Python	$O(n)$	$O(w)$	Medium		
0974	Subarray Sums Divisible by K	C++ Python	$O(n)$	$O(k)$	Medium	variant of Subarray Sum Equals K	
0982	Triples with Bitwise AND Equal To Zero	C++ Python	$O(n \log n)$	$O(n)$	Hard		Math, Fast Wavelet Transform (FWT)
0992	Subarrays with K Different Integers	C++ Python	$O(n)$	$O(k)$	Hard		Two Pointers
1001	Grid Illumination	C++ Python	$O(l + q)$	$O(l)$	Hard		

Math

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0007	Reverse Integer	C++ Python	$O(1)$	$O(1)$	Easy		
0009	Palindrome Number	C++ Python	$O(1)$	$O(1)$	Easy		
0012	Integer to Roman	C++ Python	$O(n)$	$O(1)$	Medium		
0013	Roman to Integer	C++ Python	$O(n)$	$O(1)$	Easy		
0029	Divide Two Integers	C++ Python	$O(1)$	$O(1)$	Medium		
0050	Pow(x, n)	C++ Python	$O(1)$	$O(1)$	Medium		
0060	Permutation Sequence	C++ Python	$O(n^2)$	$O(n)$	Medium		Cantor Ordering
0065	Valid Number	C++ Python	$O(n)$	$O(1)$	Hard		Automata
0089	Gray Code	C++ Python	$O(2^n)$	$O(1)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0166	Fraction to Recurring Decimal	C++ Python	$O(\log n)$	$O(1)$	Medium		
0168	Excel Sheet Column Title	C++ Python	$O(\log n)$	$O(1)$	Easy		
0171	Excel Sheet Column Number	C++ Python	$O(n)$	$O(1)$	Easy		
0172	Factorial Trailing Zeroes	C++ Python	$O(1)$	$O(1)$	Easy		
0223	Rectangle Area	C++ Python	$O(1)$	$O(1)$	Easy		
0233	Number of Digit One	C++ Python	$O(1)$	$O(1)$	Hard	CTCI, LintCode	
0248	Strobogrammatic Number III	C++ Python	$O(5^{(n/2)})$	$O(n)$	Hard		
0258	Add Digits	C++ Python	$O(1)$	$O(1)$	Easy		
0263	Ugly Number	C++ Python	$O(1)$	$O(1)$	Easy		
0292	Nim Game	C++ Python	$O(1)$	$O(1)$	Easy	LintCode	
0319	Bulb Switcher	C++ Python	$O(1)$	$O(1)$	Medium		
0326	Power of Three	C++ Python	$O(1)$	$O(1)$	Easy		
0335	Self Crossing	C++ Python	$O(n)$	$O(1)$	Hard		
0338	Counting Bits	C++ Python	$O(n)$	$O(n)$	Medium		
0343	Integer Break	C++ Python	$O(\log n)$	$O(1)$	Medium		Tricky, DP
0365	Water and Jug Problem	C++ Python	$O(\log n)$	$O(1)$	Medium		Bézout's identity
0372	Super Pow	C++ Python	$O(n)$	$O(1)$	Medium		
0382	Linked List Random Node	C++ Python	$O(n)$	$O(1)$	Medium		Reservoir Sampling
0386	Lexicographical Numbers	C++ Python	$O(n)$	$O(1)$	Medium		
0390	Elimination Game	C++ Python	$O(\log n)$	$O(1)$	Medium		
0391	Perfect Rectangle	C++ Python	$O(n)$	$O(n)$	Hard		
0398	Random Pick Index	C++ Python	$O(n)$	$O(1)$	Medium		Reservoir Sampling
0400	Nth Digit	C++ Python	$O(\log n)$	$O(1)$	Easy		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0413	Arithmetic Slices	C++ Python	$O(n)$	$O(1)$	Medium		
0423	Reconstruct Original Digits from English	C++ Python	$O(n)$	$O(1)$	Medium	GCJ2016 - Round 1B	
0441	Arranging Coins	C++ Python	$O(n \log n)$	$O(1)$	Easy		Binary Search
0453	Minimum Moves to Equal Array Elements	C++ Python	$O(n)$	$O(1)$	Easy		
0458	Poor Pigs	C++ Python	$O(n)$	$O(1)$	Easy		
0469	Convex Polygon	C++ Python	$O(n)$	$O(1)$	Medium		
0470	Implement Rand10() Using Rand7()	C++ Python	$O(1)$	$O(1)$	Medium		
0478	Generate Random Point in a Circle	C++ Python	$O(1)$	$O(1)$	Medium		
0497	Random Point in Non-overlapping Rectangles	C++ Python	ctor: $O(n)$ pick: $O(\log n)$	$O(n)$	Medium		
0517	Super Washing Machines	C++ Python	$O(n)$	$O(1)$	Hard		
0519	Random Flip Matrix	C++ Python	ctor: $O(1)$ pick: $O(1)$ reset: $O(n)$	$O(n)$	Medium		
0528	Random Pick with Weight	C++ Python	ctor: $O(n)$ pick: $O(\log n)$	$O(n)$	Medium		
0537	Complex Number Multiplication	C++ Python	$O(1)$	$O(1)$	Medium		
0553	Optimal Division	C++ Python	$O(n)$	$O(1)$	Medium		
0573	Squirrel Simulation	C++ Python	$O(n)$	$O(1)$	Medium		
0592	Fraction Addition and Subtraction	C++ Python	$O(n \log x)$	$O(n)$	Medium		
0593	Valid Square	C++ Python	$O(1)$	$O(1)$	Medium		
0598	Range Addition II	C++ Python	$O(p)$	$O(1)$	Easy		
0625	Minimum Factorization	C++ Python	$O(\log a)$	$O(1)$	Medium		
0628	Maximum Product of Three Numbers	C++ Python	$O(n)$	$O(1)$	Easy		
0633	Sum of Square Numbers	C++ Python	$O(\sqrt{c}) * \log c$	$O(1)$	Easy		
0634	Find the Derangement of An Array	C++ Python	$O(n)$	$O(1)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0640	Solve the Equation	C++ Python	$O(n)$	$O(n)$	Medium		
0651	4 Keys Keyboard	C++ Python	$O(1)$	$O(1)$	Medium		Math, DP
0660	Remove 9	C++ Python	$O(\log n)$	$O(1)$	Hard		
0672	Bulb Switcher II	C++ Python	$O(1)$	$O(1)$	Medium		
0728	Self Dividing Numbers	C++ Python	$O(n)$	$O(1)$	Medium		
0754	Reach a Number	C++ Python	$O(\log n)$	$O(1)$	Medium		
0775	Global and Local Inversions	C++ Python	$O(n)$	$O(1)$	Medium		
0779	K-th Symbol in Grammar	C++ Python	$O(1)$	$O(1)$	Medium		
0780	Reaching Points	C++ Python	$O(\log(\max(m, n)))$	$O(1)$	Hard		
0781	Rabbits in Forest	C++ Python	$O(n)$	$O(n)$	Medium		
0782	Transform to Chessboard	C++ Python	$O(n^2)$	$O(n)$	Hard		
0789	Escape The Ghosts	C++ Python	$O(n)$	$O(1)$	Medium		
0800	Similar RGB Color	C++ Python	$O(1)$	$O(1)$	Easy		
0810	Chalkboard XOR Game	C++ Python	$O(1)$	$O(1)$	Hard		
0812	Largest Triangle Area	C++ Python	$O(n^3)$	$O(1)$	Easy		
0829	Consecutive Numbers Sum	C++ Python	$O(\sqrt{n})$	$O(1)$	Medium		
0836	Rectangle Overlap	C++ Python	$O(1)$	$O(1)$	Easy		
0858	Mirror Reflection	C++ Python	$O(1)$	$O(1)$	Medium		
0867	Prime Palindrome	C++ Python	$O(n^{1/2} * (\log n + n^{1/2}))$	$O(\log n)$	Medium		
0883	Projection Area of 3D Shapes	C++ Python	$O(n^2)$	$O(1)$	Easy		
0887	Super Egg Drop	C++ Python	$O(k \log n)$	$O(1)$	Hard		
0891	Sum of Subsequence Widths	C++ Python	$O(n)$	$O(1)$	Hard		
0899	Orderly Queue	C++ Python	$O(n^2)$	$O(n)$	Hard		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0902	Numbers At Most N Given Digit Set	C++ Python	$O(\log n)$	$O(\log n)$	Hard		
0906	Super Palindromes	C++ Python	$O(n^{0.25} * \log n)$	$O(\log n)$	Hard		
0907	Sum of Subarray Minimums	C++ Python	$O(n)$	$O(n)$	Medium		Mono Stack
0908	Smallest Range I	C++ Python	$O(n)$	$O(1)$	Easy		
0910	Smallest Range II	C++ Python	$O(n \log n)$	$O(1)$	Medium		
0914	X of a Kind in a Deck of Cards	C++ Python	$O(n * (\log n)^2)$	$O(n)$	Easy		
0963	Minimum Area Rectangle II	C++ Python	$O(n^2) \sim O(n^3)$	$O(n^2)$	Medium		
0970	Powerful Integers	C++ Python	$O((\log n)^2)$	$O(r)$	Easy		
0972	Equal Rational Numbers	C++ Python	$O(1)$	$O(1)$	Hard		
1006	Clumsy Factorial	C++ Python	$O(1)$	$O(1)$	Medium		
1009	Complement of Base 10 Integer	C++ Python	$O(\log n)$	$O(1)$	Easy		
1012	Numbers With Repeated Digits	C++ Python	$O(\log n)$	$O(\log n)$	Hard		
1015	Smallest Integer Divisible by K	C++ Python	$O(k)$	$O(1)$	Medium		
1017	Convert to Base -2	C++ Python	$O(\log n)$	$O(1)$	Medium		
1025	Divisor Game	C++ Python	$O(1)$	$O(1)$	Easy		DP
1037	Valid Boomerang	C++ Python	$O(1)$	$O(1)$	Easy		
1041	Robot Bounded In Circle	C++ Python	$O(n)$	$O(1)$	Easy		
1067	Digit Count in Range	C++ Python	$O(\log n)$	$O(1)$	Hard	 , variant of Number of Digit One	
1073	Adding Two Negabinary Numbers	C++ Python	$O(n)$	$O(n)$	Medium		

Sort

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0056	Merge Intervals	C++ Python	$O(n \log n)$	$O(1)$	Hard		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0057	Insert Interval	C++ Python	$O(n)$	$O(1)$	Hard		
0075	Sort Colors	C++ Python	$O(n)$	$O(1)$	Medium		Tri Partition
0088	Merge Sorted Array	C++ Python	$O(n)$	$O(1)$	Easy		
0147	Insertion Sort List	C++ Python	$O(n^2)$	$O(1)$	Medium		
0148	Sort List	C++ Python	$O(n \log n)$	$O(\log n)$	Medium		
0164	Maximum Gap	C++ Python	$O(n)$	$O(n)$	Hard		Tricky
0179	Largest Number	C++ Python	$O(n \log n)$	$O(1)$	Medium		
0218	The Skyline Problem	C++ Python	$O(n \log n)$	$O(n)$	Hard		Sort, BST
0252	Meeting Rooms	C++ Python	$O(n \log n)$	$O(n)$	Easy		
0253	Meeting Rooms II	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0274	H-Index	C++ Python	$O(n)$	$O(n)$	Medium		Counting Sort
0280	Wiggle Sort	C++ Python	$O(n)$	$O(1)$	Medium		
0324	Wiggle Sort II	C++ Python	$O(n)$ on average	$O(1)$	Medium	variant of Sort Colors	Tri Partition
0347	Top K Frequent Elements	C++ Python	$O(n)$	$O(n)$	Medium		Quick Select, Heap, Bucket Sort
0406	Queue Reconstruction by Height	C++ Python	$O(n * \sqrt{n})$	$O(n)$	Medium		Tricky
0451	Sort Characters By Frequency	C++ Python	$O(n)$	$O(n)$	Medium		
0692	Top K Frequent Words	C++ Python	$O(n + k \log k)$ on average	$O(n)$	Medium		Quick Select, Heap, Bucket Sort
0912	Sort an Array	C++ Python	$O(n \log n)$	$O(n)$	Medium		Merge Sort, Quick Sort
0937	Reorder Log Files	C++ Python	$O(n \log n * l)$	$O(l)$	Easy		
0969	Pancake Sorting	C++ Python	$O(n^2)$	$O(l)$	Medium		
0973	K Closest Points to Origin	C++ Python	$O(n)$ on average	$O(1)$	Easy		Quick Select, Heap

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0976	Largest Perimeter Triangle	C++ Python	$O(n \log n)$	$O(1)$	Easy		
1054	Distant Barcodes	C++ Python	$O(k \log k)$	$O(k)$	Medium	variant of Rearrange String k Distance Apart	

Two Pointers

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0019	Remove Nth Node From End of List	C++ Python	$O(n)$	$O(1)$	Medium		
0086	Partition List	C++ Python	$O(n)$	$O(1)$	Medium		
0141	Linked List Cycle	C++ Python	$O(n)$	$O(1)$	Easy		
0142	Linked List Cycle II	C++ Python	$O(n)$	$O(1)$	Medium		
0143	Reorder List	C++ Python	$O(n)$	$O(1)$	Medium		
0167	Two Sum II - Input array is sorted	C++ Python	$O(n)$	$O(1)$	Medium		
0259	3Sum Smaller	C++ Python	$O(n^2)$	$O(1)$	Medium	 , LintCode	
0283	Move Zeroes	C++ Python	$O(n)$	$O(1)$	Easy		
0287	Find the Duplicate Number	C++ Python	$O(n)$	$O(1)$	Hard		Binary Search, Two Pointers
0344	Reverse String	C++ Python	$O(n)$	$O(1)$	Easy		
0345	Reverse Vowels of a String	C++ Python	$O(n)$	$O(1)$	Easy		
0349	Intersection of Two Arrays	C++ Python	$O(m + n)$	$O(\min(m, n))$	Easy	EPI	Hash, Binary Search
0350	Intersection of Two Arrays II	C++ Python	$O(m + n)$	$O(1)$	Easy	EPI	Hash, Binary Search
0360	Sort Transformed Array	C++ Python	$O(n)$	$O(1)$	Medium		
0457	Circular Array Loop	C++ Python	$O(n)$	$O(1)$	Medium		
0567	Permutation in String	C++ Python	$O(n)$	$O(1)$	Medium		
0611	Valid Triangle Number	C++ Python	$O(n^2)$	$O(1)$	Medium		
0777	Swap Adjacent in LR String	C++ Python	$O(n)$	$O(1)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0826	Most Profit Assigning Work	C++ Python	$O(m \log m + n \log n)$	$O(n)$	Medium		
0828	Unique Letter String	C++ Python	$O(n)$	$O(1)$	Hard		
0844	Backspace String Compare	C++ Python	$O(m + n)$	$O(1)$	Easy		
0876	Middle of the Linked List	C++ Python	$O(n)$	$O(1)$	Easy		
0904	Fruit Into Baskets	C++ Python	$O(n)$	$O(1)$	Medium		
0930	Binary Subarrays With Sum	C++ Python	$O(n)$	$O(1)$	Medium		
0977	Squares of a Sorted Array	C++ Python	$O(n)$	$O(1)$	Easy		
1004	Max Consecutive Ones III	C++ Python	$O(n)$	$O(1)$	Medium		
1033	Moving Stones Until Consecutive	C++ Python	$O(1)$	$O(1)$	Easy		
1040	Moving Stones Until Consecutive II	C++ Python	$O(n \log n)$	$O(1)$	Medium		

Recursion

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0095	Unique Binary Search Trees II	C++ Python	$O(4^n / n^{3/2})$	$O(4^n / n^{3/2})$	Medium		
0098	Validate Binary Search Tree	C++ Python	$O(n)$	$O(1)$	Medium		
0100	Same Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0104	Maximum Depth of Binary Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0105	Construct Binary Tree from Preorder and Inorder Traversal	C++ Python	$O(n)$	$O(n)$	Medium		
0106	Construct Binary Tree from Inorder and Postorder Traversal	C++ Python	$O(n)$	$O(n)$	Medium		
0108	Convert Sorted Array to Binary Search Tree	C++ Python	$O(n)$	$O(\log n)$	Medium		
0109	Convert Sorted List to Binary Search Tree	C++ Python	$O(n)$	$O(\log n)$	Medium		
0110	Balanced Binary Tree	Python	$O(n)$	$O(h)$	Easy		
0111	Minimum Depth of Binary Tree	Python	$O(n)$	$O(h)$	Easy		
0114	Flatten Binary Tree to Linked List	Python	$O(n)$	$O(h)$	Medium		
0116	Populating Next Right Pointers in Each Node	Python	$O(n)$	$O(1)$	Medium		
0124	Binary Tree Maximum Path Sum	Python	$O(n)$	$O(h)$	Hard		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0129	Sum Root to Leaf Numbers	Python	$O(n)$	$O(h)$	Medium		
0156	Binary Tree Upside Down	Python	$O(n)$	$O(1)$	Medium		
0241	Different Ways to Add Parentheses	C++ Python	$O(n * 4^n / n^{(3/2)})$	$O(n * 4^n / n^{(3/2)})$	Medium		
0298	Binary Tree Longest Consecutive Sequence	C++ Python	$O(n)$	$O(h)$	Medium		
0327	Count of Range Sum	C++ Python	$O(n \log n)$	$O(n)$	Hard		
0333	Largest BST Subtree	C++ Python	$O(n)$	$O(h)$	Medium		
0337	House Robber III	C++ Python	$O(n)$	$O(h)$	Medium		
0395	Longest Substring with At Least K Repeating Characters	C++ Python	$O(n)$	$O(1)$	Medium		
0404	Sum of Left Leaves	C++ Python	$O(n)$	$O(h)$	Easy		
0437	Path Sum III	C++ Python	$O(n)$	$O(h)$	Easy		
0544	Output Contest Matches	C++ Python	$O(n)$	$O(n)$	Medium		
0549	Binary Tree Longest Consecutive Sequence II	C++ Python	$O(n)$	$O(h)$	Medium		
0669	Trim a Binary Search Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0671	Second Minimum Node In a Binary Tree	C++ Python	$O(n)$	$O(h)$	Easy		
0761	Special Binary String	C++ Python	$O(n^2)$	$O(n)$	Hard		

Binary Search

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0004	Median of Two Sorted Arrays	C++ Python	$O(\log(\min(m, n)))$	$O(1)$	Hard		
0033	Search in Rotated Sorted Array	C++ Python	$O(\log n)$	$O(1)$	Hard		
0034	Search for a Range	C++ Python	$O(\log n)$	$O(1)$	Medium		
0035	Search Insert Position	C++ Python	$O(\log n)$	$O(1)$	Medium		
0069	Sqrt(x)	C++ Python	$O(\log n)$	$O(1)$	Medium		
0074	Search a 2D Matrix	C++ Python	$O(\log m + \log n)$	$O(1)$	Medium		
0081	Search in Rotated Sorted Array II	C++ Python	$O(\log n)$	$O(1)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0153	Find Minimum in Rotated Sorted Array	C++ Python	$O(\log n)$	$O(1)$	Medium		
0154	Find Minimum in Rotated Sorted Array II	C++ Python	$O(\log n) \sim O(n)$	$O(1)$	Hard		
0162	Find Peak Element	C++ Python	$O(\log n)$	$O(1)$	Medium		
0222	Count Complete Tree Nodes	C++ Python	$O((\log n)^2)$	$O(1)$	Medium		
0275	H-Index II	C++ Python	$O(\log n)$	$O(1)$	Medium		Binary Search
0278	First Bad Version	C++ Python	$O(\log n)$	$O(1)$	Easy	LintCode	
0300	Longest Increasing Subsequence	C++ Python	$O(n \log n)$	$O(n)$	Medium	CTCI, LintCode	Binary Search, DP
0302	Smallest Rectangle Enclosing Black Pixels	C++ Python	$O(n \log n)$	$O(1)$	Hard		
0354	Russian Doll Envelopes	C++ Python	$O(n \log n)$	$O(1)$	Hard		
0363	Max Sum of Rectangle No Larger Than K	C++ Python	$O(\min(m, n)^2 * \max(m, n) * \log n(\max(m, n)))$	$O(\max(m, n))$	Hard		
0367	Valid Perfect Square	C++ Python	$O(\log n)$	$O(1)$	Medium		
0374	Guess Number Higher or Lower	C++ Python	$O(\log n)$	$O(1)$	Easy		
0410	Split Array Largest Sum	C++ Python	$O(n \log s)$	$O(1)$	Hard		
0436	Find Right Interval	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0475	Heaters	C++ Python	$O((m + n) * \log n)$	$O(1)$	Easy		
0540	Single Element in a Sorted Array	C++ Python	$O(\log n)$	$O(1)$	Medium		
0658	Find K Closest Elements	C++ Python	$O(\log n + k)$	$O(1)$	Medium		
0668	Kth Smallest Number in Multiplication Table	C++ Python	$O(m * \log(m * n))$	$O(1)$	Hard		
0719	Find K-th Smallest Pair Distance	C++ Python	$O(n \log n + n \log w)$	$O(1)$	Hard		




#	Title	Solution	Time	Space	Difficulty	Tag	Note
0744	Find Smallest Letter Greater Than Target	C++ Python	$O(\log n)$	$O(1)$	Easy		
0774	Minimize Max Distance to Gas Station	C++ Python	$O(n \log r)$	$O(1)$	Hard		
0786	K-th Smallest Prime Fraction	C++ Python	$O(n \log r)$	$O(1)$	Hard		
0793	Preimage Size of Factorial Zeroes Function	C++ Python	$O((\log n)^2)$	$O(1)$	Hard		
0852	Peak Index in a Mountain Array	C++ Python	$O(\log n)$	$O(1)$	Easy		
0864	Random Pick with Blacklist	C++ Python	ctor: $O(b)$ pick: $O(1)$	$O(b)$	Hard		
0875	Koko Eating Bananas	C++ Python	$O(n \log r)$	$O(1)$	Medium		
0878	Nth Magical Number	C++ Python	$O(\log n)$	$O(1)$	Hard		
0894	All Possible Full Binary Trees	C++ Python	$O(n * 4^n / n^{(3/2)})$	$O(n * 4^n / n^{(3/2)})$	Medium		
0911	Online Election	C++ Python	ctor: $O(n)$ query : $O(\log n)$	$O(n)$	Medium		
0981	Time Based Key-Value Store	C++ Python	set: $O(1)$ get : $O(\log n)$	$O(n)$	Medium		
1011	Capacity To Ship Packages Within D Days	C++ Python	$O(n \log r)$	$O(1)$	Medium		
1044	Longest Duplicate Substring	C++ Python	$O(n \log n)$	$O(n)$	Hard		Rabin-Karp Algorithm
1060	Missing Element in Sorted Array	C++ Python	$O(\log n)$	$O(1)$	Medium		
1062	Longest Repeating Substring	C++ Python	$O(n \log n)$	$O(n)$	Medium		Rabin-Karp Algorithm
1064	Fixed Point	C++ Python	$O(\log n)$	$O(1)$	Easy		




Binary Search Tree

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0220	Contains Duplicate III	C++ Python	$O(n \log k)$	$O(k)$	Medium		
0230	Kth Smallest Element in a BST	C++ Python	$O(\max(h, k))$	$O(\min(h, k))$	Medium		
0235	Lowest Common Ancestor of a Binary Search Tree	C++ Python	$O(h)$	$O(1)$	Easy	EPI	

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0270	Closest Binary Search Tree Value	C++ Python	$O(h)$	$O(1)$	Easy		
0285	Inorder Successor in BST	C++ Python	$O(h)$	$O(1)$	Medium		
0352	Data Stream as Disjoint Intervals	C++ Python	$O(\log n)$	$O(n)$	Hard		
0449	Serialize and Deserialize BST	C++ Python	$O(n)$	$O(h)$	Medium		
0450	Delete Node in a BST	C++ Python	$O(h)$	$O(h)$	Medium		
0530	Minimum Absolute Difference in BST	C++ Python	$O(n)$	$O(h)$	Easy		
0776	Split BST	C++ Python	$O(n)$	$O(h)$	Medium		
0783	Minimum Distance Between BST Nodes	C++ Python	$O(n)$	$O(h)$	Easy		
0510	Inorder Successor in BST II	C++ Python	$O(h)$	$O(1)$	Medium		

Breadth-First Search

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0102	Binary Tree Level Order Traversal	C++ Python	$O(n)$	$O(n)$	Easy		
0107	Binary Tree Level Order Traversal II	C++ Python	$O(n)$	$O(n)$	Easy		
0103	Binary Tree Zigzag Level Order Traversal	Python	$O(n)$	$O(n)$	Medium		
0117	Populating Next Right Pointers in Each Node II	Python	$O(n)$	$O(1)$	Hard		
0127	Word Ladder	Python	$O(n * d)$	$O(d)$	Medium		
0130	Surrounded Regions	C++ Python	$O(m * n)$	$O(m + n)$	Medium		
0133	Clone Graph	Python	$O(n)$	$O(n)$	Medium		
0207	Course Schedule	Python	$O(V + E)$	$O(E)$	Medium		Topological Sort
0210	Course Schedule II	Python	$O(V + E)$	$O(E)$	Medium		Topological Sort
0261	Graph Valid Tree	C++ Python	$O(V + E)$	$O(V + E)$	Medium		
0269	Alien Dictionary	C++ Python	$O(n)$	$O(1)$	Hard		Topological Sort, BFS, DFS
0286	Walls and Gates	C++ Python	$O(m * n)$	$O(g)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0310	Minimum Height Trees	C++ Python	$O(n)$	$O(n)$	Medium		
0317	Shortest Distance from All Buildings	C++ Python	$O(k * m * n)$	$O(m * n)$	Hard		
0433	Minimum Genetic Mutation	C++ Python	$O(n * b)$	$O(b)$	Medium		
0444	Sequence Reconstruction	C++ Python	$O(n * s)$	$O(n)$	Medium		Topological Sort
0490	The Maze	C++ Python	$O(\max(r, c) * w)$	$O(w)$	Medium		
0499	The Maze III	C++ Python	$O(\max(r, c) * w \log w)$	$O(w^2)$	Hard		
0505	The Maze II	C++ Python	$O(\max(r, c) * w \log w)$	$O(w)$	Medium		
0542	01 Matrix	C++ Python	$O(m * n)$	$O(m * n)$	Medium		DP
0666	Path Sum IV	C++ Python	$O(n)$	$O(w)$	Medium		Topological Sort
0675	Cut Off Trees for Golf Event	C++ Python	$O(t * m * n)$	$O(m * n)$	Hard		A* Search Algorithm
0742	Closest Leaf in a Binary Tree	C++ Python	$O(n)$	$O(n)$	Medium		
0743	Network Delay Time	C++ Python	$O(E * \log V)$	$O(E)$	Medium		Dijkstra's algorithm
0752	Open the Lock	C++ Python	$O(k * n^k + d)$	$O(k * n^k + d)$	Medium		
0773	Sliding Puzzle	C++ Python	$O((m * n) * (m * n)!))$	$O((m * n) * (m * n)!))$	Hard		A* Search Algorithm
0787	Cheapest Flights Within K Stops	C++ Python	$O(E * \log V)$	$O(E)$	Medium		Dijkstra's algorithm
0815	Bus Routes	C++ Python	$O(E + V)$	$O(E + V)$	Hard		
0854	K-Similar Strings	C++ Python	$O(n * n! / (c_a! * \dots * c_z!))$	$O(n * n! / (c_a! * \dots * c_z!))$	Hard		
0865	Shortest Path to Get All Keys	C++ Python	$O(k * r * c + k^3 * 2^k)$	$O(k * 2^k)$	Hard		Dijkstra's algorithm
0882	Reachable Nodes In Subdivided Graph	C++ Python	$O(E * \log V)$	$O(E)$	Hard		Dijkstra's algorithm
0886	Possible Bipartition	C++ Python	$O(V + E)$	$O(V + E)$	Medium		
0934	Shortest Bridge	C++ Python	$O(n^2)$	$O(n^2)$	Medium		BFS, DFS
0967	Numbers With Same Consecutive Differences	C++ Python	$O(2^n)$	$O(2^n)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0994	Rotting Oranges	C++ Python	$O(m * n)$	$O(m * n)$	Easy		
1034	Coloring A Border	C++ Python	$O(m * n)$	$O(m + n)$	Medium		
1036	Escape a Large Maze	C++ Python	$O(n^2)$	$O(n)$	Hard		

Depth-First Search

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0112	Path Sum	Python	$O(n)$	$O(h)$	Easy		
0113	Path Sum II	Python	$O(n)$	$O(h)$	Medium		
0199	Binary Tree Right Side View	Python	$O(n)$	$O(h)$	Medium		
0200	Number of Islands	Python	$O(m * n)$	$O(m * n)$	Medium		
0236	Lowest Common Ancestor of a Binary Tree	C++ Python	$O(n)$	$O(h)$	Medium	EPI	
0247	Strobogrammatic Number II	C++ Python	$O(n^2 * 5^{(n/2)})$	$O(n)$	Medium		
0250	Count Univalued Subtrees	C++ Python	$O(n)$	$O(h)$	Medium		
0257	Binary Tree Paths	C++ Python	$O(n * h)$	$O(h)$	Easy		
0282	Expression Add Operators	C++ Python	$O(4^n)$	$O(n)$	Hard		
0301	Remove Invalid Parentheses	C++ Python	$O(C(n, c))$	$O(c)$	Hard		
0329	Longest Increasing Path in a Matrix	C++ Python	$O(m * n)$	$O(m * n)$	Hard		
0332	Reconstruct Itinerary	C++ Python	$O(t! / (n1! * n2! * \dots * nk!))$	$O(t)$	Medium		
0339	Nested List Weight Sum	C++ Python	$O(n)$	$O(h)$	Easy		
0364	Nested List Weight Sum II	C++ Python	$O(n)$	$O(h)$	Medium		
0366	Find Leaves of Binary Tree	C++ Python	$O(n)$	$O(h)$	Medium		
0399	Evaluate Division	C++ Python	$O(q * V !)$	$O(e)$	Medium		
0417	Pacific Atlantic Water Flow	C++ Python	$O(m * n)$	$O(m * n)$	Medium		
0440	K-th Smallest in Lexicographical Order	C++ Python	$O(\log n)$	$O(\log n)$	Hard		
0464	Can I Win	C++ Python	$O(n!)$	$O(n)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0515	Find Largest Value in Each Tree Row	C++ Python	$O(n)$	$O(h)$	Medium		
0547	Friend Circles	C++ Python	$O(n^2)$	$O(n)$	Medium		Union Find
0582	Kill Process	C++ Python	$O(n)$	$O(n)$	Medium		DFS, BFS
0638	Shopping Offers	C++ Python	$O(n * 2^n)$	$O(n)$	Medium		
0690	Employee Importance	C++ Python	$O(n)$	$O(h)$	Easy		DFS, BFS
0694	Number of Distinct Islands	C++ Python	$O(m * n)$	$O(m * n)$	Medium		
0695	Max Area of Island	C++ Python	$O(m * n)$	$O(m * n)$	Easy		
0711	Number of Distinct Islands II	C++ Python	$O((m * n) * \log(m * n))$	$O(m * n)$	Hard		Hash
0733	Max Area of Island	C++ Python	$O(m * n)$	$O(m * n)$	Easy		
0749	Contain Virus	C++ Python	$O((m * n)^{4/3})$	$O(m * n)$	Hard		Simulation
0753	Cracking the Safe	C++ Python	$O(k^n)$	$O(k^n)$	Hard		de Bruijn sequences , Lyndon word
0756	Pyramid Transition Matrix	C++ Python	$O(a^b)$	$O(a^b)$	Medium		
0785	Is Graph Bipartite?	C++ Python	$O(V + E)$	$O(V)$	Medium		
0797	All Paths From Source to Target	C++ Python	$O(p + r * n)$	$O(n)$	Medium		
0802	Find Eventual Safe States	C++ Python	$O(V + E)$	$O(V)$	Medium		
0827	Making A Large Island	C++ Python	$O(n^2)$	$O(n^2)$	Hard		
0834	Sum of Distances in Tree	C++ Python	$O(n)$	$O(n)$	Hard		
0841	Keys and Rooms	C++ Python	$O(n!)$	$O(n)$	Medium		
0851	Loud and Rich	C++ Python	$O(q + r)$	$O(q + r)$	Medium		
0913	Cat and Mouse	C++ Python	$O(n^3)$	$O(n^2)$	Hard		
1020	Number of Enclaves	C++ Python	$O(m * n)$	$O(m * n)$	Medium		
1059	All Paths from Source Lead to Destination	C++ Python	$O(n + e)$	$O(n + e)$	Medium		

Backtracking

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0017	Letter Combinations of a Phone Number	Python	$O(n * 4^n)$	$O(n)$	Medium		
0022	Generate Parentheses	Python	$O(4^n / n^{(3/2)})$	$O(n)$	Medium		
0037	Sudoku Solver	Python	$O((9!)^9)$	$O(1)$	Hard		
0039	Combination Sum	Python	$O(k * n^k)$	$O(k)$	Medium		
0040	Combination Sum II	Python	$O(k * C(n, k))$	$O(k)$	Medium		
0046	Permutations	Python	$O(n * n!)$	$O(n)$	Medium		
0047	Permutations II	Python	$O(n * n!)$	$O(n)$	Medium		
0051	N-Queens	Python	$O(n!)$	$O(n)$	Hard		
0052	N-Queens-II	Python	$O(n!)$	$O(n)$	Hard		
0077	Combinations	Python	$O(O(k * C(n, k)))$	$O(k)$	Medium		
0079	Word Search	Python	$O(m * n * l)$	$O(l)$	Medium		
0093	Restore IP Addresses	Python	$O(1)$	$O(1)$	Medium		
0078	Subsets	C++ Python	$O(n * 2^n)$	$O(1)$	Medium		
0090	Subsets II	C++ Python	$O(n * 2^n)$	$O(1)$	Medium		
0126	Word Ladder II	Python	$O(n * d)$	$O(d)$	Hard		
0131	Palindrome Partitioning	Python	$O(n^2) \sim O(2^n)$	$O(n^2)$	Medium		
0140	Word Break II	C++ Python	$O(n * l^2 + n * r)$	$O(n^2)$	Hard		
0212	Word Search II	C++ Python	$O(m * n * l)$	$O(l)$	Hard	LintCode	Trie, DFS
0216	Combination Sum III	C++ Python	$O(k * C(n, k))$	$O(k)$	Medium		
0254	Factor Combinations	C++ Python	$O(n \log n)$	$O(\log n)$	Medium		
0267	Palindrome Permutation II	C++ Python	$O(n * n!)$	$O(n)$	Medium		
0291	Word Pattern II	C++ Python	$O(n * C(n - 1, c - 1))$	$O(n + c)$	Hard		
0294	Flip Game II	C++ Python	$O(n + c^2)$	$O(c)$	Medium		DP, Hash
0320	Generalized Abbreviation	C++ Python	$O(n * 2^n)$	$O(n)$	Medium		
0425	Word Squares	C++ Python	$O(n^2 * n!)$	$O(n^2)$	Hard		
0526	Beautiful Arrangement	C++ Python	$O(n!)$	$O(n)$	Medium		
0676	Implement Magic Dictionary	C++ Python	$O(n)$	$O(d)$	Medium		Trie, DFS

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0679	24 Game	C++ Python	$O(1)$	$O(1)$	Hard		DFS
0698	Partition to K Equal Sum Subsets	C++ Python	$O(n * 2^n)$	$O(2^n)$	Medium		DFS, DP, Memoization
0718	Maximum Length of Repeated Subarray	C++ Python	$O(m * n)$	$O(\min(m, n))$	Medium		DP, Hash, Binary Search
0784	Letter Case Permutation	C++ Python	$O(n * 2^n)$	$O(1)$	Easy		
0996	Number of Squareful Arrays	C++ Python	$O(n!)$	$O(n^2)$	Hard		

Dynamic Programming


#	Title	Solution	Time	Space	Difficulty	Tag	Note
0010	Regular Expression Matching	Python	$O(m * n)$	$O(n)$	Hard		
0044	Wildcard Matching	Python	$O(m * n)$	$O(1)$	Hard		Greedy
0053	Maximum Subarray	C++ Python	$O(n)$	$O(1)$	Medium		
0062	Unique Paths	Python	$O(m * n)$	$O(m + n)$	Medium		
0063	Unique Paths II	Python	$O(m * n)$	$O(m + n)$	Medium		
0064	Minimum Path Sum	Python	$O(m * n)$	$O(m + n)$	Medium		
0070	Climbing Stairs	C++ Python	$O(\log n)$	$O(1)$	Easy		Matrix Exponentiation
0072	Edit Distance	Python	$O(m * n)$	$O(m + n)$	Hard		
0087	Scramble String	Python	$O(n^4)$	$O(n^3)$	Hard		
0091	Decode Ways	C++ Python	$O(n)$	$O(1)$	Medium		
0096	Unique Binary Search Trees	Python	$O(n)$	$O(1)$	Medium		Math
0097	Interleaving String	Python	$O(m * n)$	$O(m + n)$	Hard		
0115	Distinct Subsequences	Python	$O(n^2)$	$O(n)$	Hard		
0120	Triangle	Python	$O(m * n)$	$O(n)$	Medium		
0123	Best Time to Buy and Sell Stock III	Python	$O(n)$	$O(1)$	Hard		
0132	Palindrome Partitioning II	Python	$O(n^2)$	$O(n^2)$	Hard		
0139	Word Break	C++ Python	$O(n * l^2)$	$O(n)$	Medium		
0152	Maximum Product Subarray	Python	$O(n)$	$O(1)$	Medium		
0174	Dungeon Game	Python	$O(m * n)$	$O(m + n)$	Hard		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0188	Best Time to Buy and Sell Stock IV	Python	$O(k * n)$	$O(k)$	Hard		
0198	House Robber	C++ Python	$O(n)$	$O(1)$	Easy		
0213	House Robber II	C++ Python	$O(n)$	$O(1)$	Medium		
0221	Maximal Square	C++ Python	$O(n^2)$	$O(n)$	Medium	EPI	
0256	Paint House	C++ Python	$O(n)$	$O(1)$	Medium		
0265	Paint House II	C++ Python	$O(n * k)$	$O(k)$	Hard		
0276	Paint Fence	C++ Python	$O(n)$	$O(1)$	Easy		
0279	Perfect Squares	C++ Python	$O(n * \sqrt{n})$	$O(n)$	Medium		Hash
0303	Range Sum Query - Immutable	C++ Python	ctor: $O(n)$, lookup: $O(1)$	$O(n)$	Easy		
0304	Range Sum Query 2D - Immutable	C++ Python	ctor: $O(m * n)$, lookup: $O(1)$	$O(m * n)$	Medium		
0309	Best Time to Buy and Sell Stock with Cooldown	C++ Python	$O(n)$	$O(1)$	Medium		
0312	Burst Balloons	C++ Python	$O(n^3)$	$O(n^2)$	Hard		
0322	Coin Change	C++ Python	$O(n * k)$	$O(k)$	Medium		
0351	Android Unlock Patterns	C++ Python	$O(9^2 * 2^9)$	$O(9 * 2^9)$	Medium		Backtracking
0357	Count Numbers with Unique Digits	C++ Python	$O(n)$	$O(1)$	Medium		Backtracking, Math
0361	Bomb Enemy	C++ Python	$O(m * n)$	$O(m * n)$	Medium		
0368	Largest Divisible Subset	C++ Python	$O(n^2)$	$O(n)$	Medium		
0375	Guess Number Higher or Lower II	C++ Python	$O(n^2)$	$O(n^2)$	Medium		
0377	Combination Sum IV	C++ Python	$O(n \log n + n * t)$	$O(t)$	Medium		
0403	Frog Jump	C++ Python	$O(n)$	$O(n) \sim O(n^2)$	Hard		
0416	Partition Equal Subset Sum	C++ Python	$O(n * s)$	$O(s)$	Medium		
0418	Sentence Screen Fitting	C++ Python	$O(r + n * c)$	$O(n)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0446	Arithmetic Slices II - Subsequence	C++ Python	$O(n^2)$	$O(n * d)$	Hard		
0465	Optimal Account Balancing	C++ Python	$O(n * 2^n)$	$O(2^n)$	Hard		
0466	Count The Repetitions	C++ Python	$O(s1 * \min(s2, n1))$	$O(s2)$	Hard		
0467	Unique Substrings in Wraparound String	C++ Python	$O(n)$	$O(1)$	Medium		
0471	Encode String with Shortest Length	C++ Python	$O(n^3)$ on average	$O(n^2)$	Medium		
0472	Concatenated Words	C++ Python	$O(n * l^2)$	$O(n * l)$	Medium		
0474	Ones and Zeroes	C++ Python	$O(s * m * n)$	$O(m * n)$	Medium		
0486	Predict the Winner	C++ Python	$O(n^2)$	$O(n)$	Medium		
0509	Fibonacci Number	C++ Python	$O(\log n)$	$O(1)$	Easy	variant of Climbing Stairs	Matrix Exponentiation
0514	Freedom Trail	C++ Python	$O(k) \sim O(k * r^2)$	$O(r)$	Hard		
0516	Longest Palindromic Subsequence	C++ Python	$O(n^2)$	$O(n)$	Medium		
0546	Remove Boxes	C++ Python	$O(n^3) \sim O(n^4)$	$O(n^3)$	Hard		
0552	Student Attendance Record II	C++ Python	$O(n)$	$O(1)$	Hard		
0562	Longest Line of Consecutive One in Matrix	C++ Python	$O(m * n)$	$O(n)$	Medium		
0568	Maximum Vacation Days	C++ Python	$O(n^2 * k)$	$O(k)$	Hard		
0576	Out of Boundary Paths	C++ Python	$O(N * m * n)$	$O(m * n)$	Medium		
0583	Delete Operation for Two Strings	C++ Python	$O(m * n)$	$O(n)$	Medium		
0600	Non-negative Integers without Consecutive Ones	C++ Python	$O(1)$	$O(1)$	Hard		
0629	K Inverse Pairs Array	C++ Python	$O(n * k)$	$O(k)$	Hard		
0639	Decode Ways II	C++ Python	$O(n)$	$O(1)$	Hard		
0650	2 Keys Keyboard	C++ Python	$O(\sqrt{n})$	$O(1)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0656	Coin Path	C++ Python	$O(n * B)$	$O(n)$	Hard		
0664	Strange Printer	C++ Python	$O(n^3)$	$O(n^2)$	Hard		
0673	Number of Longest Increasing Subsequence	C++ Python	$O(n^2)$	$O(n)$	Medium		
0688	Knight Probability in Chessboard	C++ Python	$O(k * n^2)$	$O(n^2)$	Medium		
0689	Maximum Sum of 3 Non-Overlapping Subarrays	C++ Python	$O(n)$	$O(n)$	Hard		
0691	Stickers to Spell Word	C++ Python	$O(T * S^T)$	$O(T * S^T)$	Hard		Backtracking, Memoization
0712	Minimum ASCII Delete Sum for Two Strings	C++ Python	$O(m * n)$	$O(n)$	Medium		
0714	Best Time to Buy and Sell Stock with Transaction Fee	C++ Python	$O(n)$	$O(1)$	Medium		
0727	Minimum Window Subsequence	C++ Python	$O(s * t)$	$O(s)$	Hard		
0730	Count Different Palindromic Subsequences	C++ Python	$O(n^2)$	$O(n)$	Hard		
0740	Delete and Earn	C++ Python	$O(n)$	$O(1)$	Medium		
0741	Cherry Pickup	C++ Python	$O(n^3)$	$O(n^2)$	Hard		
0746	Min Cost Climbing Stairs	C++ Python	$O(n)$	$O(1)$	Easy		
0750	Number Of Corner Rectangles	C++ Python	$O(n * m^2)$	$O(n * m)$	Medium		
0764	Largest Plus Sign	C++ Python	$O(n^2)$	$O(n^2)$	Medium		
0788	Rotated Digits	C++ Python	$O(\log n)$	$O(\log n)$	Easy		Memoization
0790	Domino and Tromino Tiling	C++ Python	$O(\log n)$	$O(1)$	Medium		Matrix Exponentiation
0799	Champagne Tower	C++ Python	$O(n^2)$	$O(n)$	Medium		
0801	Minimum Swaps To Make Sequences Increasing	C++ Python	$O(n)$	$O(1)$	Medium		
0805	Split Array With Same Average	C++ Python	$O(n^4)$	$O(n^3)$	Hard		
0808	Soup Servings	C++ Python	$O(1)$	$O(1)$	Medium		Memoization



#	Title	Solution	Time	Space	Difficulty	Tag	Note
0813	Largest Sum of Averages	C++ Python	$O(k * n^2)$	$O(n)$	Medium		
0818	Race Car	C++ Python	$O(n \log n)$	$O(n)$	Hard		
0823	Binary Trees With Factors	C++ Python	$O(n^2)$	$O(n)$	Medium		
0837	New 21 Game	C++ Python	$O(n)$	$O(n)$	Medium		
0838	Push Dominoes	C++ Python	$O(n)$	$O(n)$	Medium		
0847	Shortest Path Visiting All Nodes	C++ Python	$O(n * 2^n)$	$O(n * 2^n)$	Hard		BFS
0877	Stone Game	C++ Python	$O(n^2)$	$O(n)$	Medium	variant of Predict the Winner	
0879	Profitable Schemes	C++ Python	$O(n * p * g)$	$O(p * g)$	Hard		
0903	Valid Permutations for DI Sequence	C++ Python	$O(n^2)$	$O(n)$	Hard		
0920	Number of Music Playlists	C++ Python	$O(n * l)$	$O(l)$	Hard		
0926	Flip String to Monotone Increasing	C++ Python	$O(n)$	$O(1)$	Medium		
0931	Minimum Falling Path Sum	C++ Python	$O(n^2)$	$O(1)$	Medium		
0935	Knight Dialer	C++ Python	$O(\log n)$	$O(1)$	Medium		Matrix Exponentiation
0940	Distinct Subsequences II	C++ Python	$O(n)$	$O(1)$	Hard		
0943	Find the Shortest Superstring	C++ Python	$O(n^2 * (l^2 + 2^n))$	$O(n^2)$	Hard		
0956	Tallest Billboard	C++ Python	$O(n * 3^{(n/2)})$	$O(3^{(n/2)})$	Hard		
0960	Delete Columns to Make Sorted III	C++ Python	$O(n * l^2)$	$O(l)$	Hard		
0964	Least Operators to Express Number	C++ Python	$O(\log n / \log x)$	$O(\log n)$	Hard		Math
0975	Odd Even Jump	C++ Python	$O(n \log n)$	$O(n)$	Hard		Mono Stack, BST
0980	Unique Paths III	C++ Python	$O((m * n) * 2^{(m * n)})$	$O((m * n) * 2^{(m * n)})$	Hard		
0983	Minimum Cost For Tickets	C++ Python	$O(n)$	$O(1)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
1000	Minimum Cost to Merge Stones	C++ Python	$O(n^3)$	$O(n^3)$	Hard		Memoization
1027	Longest Arithmetic Sequence	C++ Python	$O(n^2)$	$O(n^2)$	Medium		
1035	Uncrossed Lines	C++ Python	$O(m * n)$	$O(\min(m, n))$	Medium		
1039	Minimum Score Triangulation of Polygon	C++ Python	$O(n^3)$	$O(n^2)$	Medium		
1043	Partition Array for Maximum Sum	C++ Python	$O(n * k)$	$O(k)$	Medium		
1048	Longest String Chain	C++ Python	$O(n * l^2)$	$O(n * l)$	Medium		
1049	Last Stone Weight II	C++ Python	$O(2^n)$	$O(2^n)$	Medium		
1066	Campus Bikes II	C++ Python	$O(w * b * 2^b)$	$O(w * b * 2^b)$	Medium		

Greedy

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0011	Container With Most Water	C++ Python	$O(n)$	$O(1)$	Medium		
0042	Trapping Rain Water	C++ Python	$O(n)$	$O(1)$	Hard		Tricky
0045	Jump Game II	Python	$O(n)$	$O(1)$	Hard		
0055	Jump Game	Python	$O(n)$	$O(1)$	Medium		
0122	Best Time to Buy and Sell Stock II	C++ Python	$O(n)$	$O(1)$	Easy		
0134	Gas Station	Python	$O(n)$	$O(1)$	Medium		
0135	Candy	C++ Python	$O(n)$	$O(n)$	Hard		
0316	Remove Duplicate Letters	C++ Python	$O(n)$	$O(k)$	Hard		Mono Stack
0321	Create Maximum Number	C++ Python	$O(k * (m + n + k)) \sim O(k * (m + n + k^2))$	$O(m + n + k^2)$	Hard	variant of Delete Digits	Greedy, DP
0330	Patching Array	C++ Python	$O(s + \log n)$	$O(1)$	Hard		
0376	Wiggle Subsequence	C++ Python	$O(n)$	$O(1)$	Medium		
0392	Is Subsequence	C++ Python	$O(n)$	$O(1)$	Medium		
0397	Integer Replacement	C++ Python	$O(n)$	$O(1)$	Medium		Math
0402	Remove K Digits	C++ Python	$O(n)$	$O(n)$	Medium	LintCode	

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0435	Non-overlapping Intervals	C++ Python	$O(n \log n)$	$O(1)$	Medium		Line Sweep
0452	Minimum Number of Arrows to Burst Balloons	C++ Python	$O(n \log n)$	$O(1)$	Medium		
0455	Assign Cookies	C++ Python	$O(n \log n)$	$O(1)$	Easy		
0621	Task Scheduler	C++ Python	$O(n)$	$O(1)$	Medium		
0630	Course Schedule III	C++ Python	$O(n \log n)$	$O(k)$	Hard		
0646	Maximum Length of Pair Chain	C++ Python	$O(n \log n)$	$O(1)$	Medium	variant of Non-overlapping Intervals	Line Sweep
0649	Dota2 Senate	C++ Python	$O(n)$	$O(n)$	Medium		
0659	Split Array into Consecutive Subsequences	C++ Python	$O(n)$	$O(1)$	Medium		
0738	Monotone Increasing Digits	C++ Python	$O(1)$	$O(1)$	Medium		
0757	Set Intersection Size At Least Two	C++ Python	$O(n \log n)$	$O(n)$	Hard		
0759	Employee Free Time	C++ Python	$O(m * \log n)$	$O(n)$	Hard		
0763	Partition Labels	C++ Python	$O(n)$	$O(n)$	Medium		
0767	Reorganize String	C++ Python	$O(n)$	$O(1)$	Medium		
0798	Smallest Rotation with Highest Score	C++ Python	$O(n)$	$O(1)$	Hard		
0843	Guess the Word	C++ Python	$O(n^2)$	$O(n)$	Hard		MinMax
0861	Score After Flipping Matrix	C++ Python	$O(r * c)$	$O(1)$	Medium		
0870	Advantage Shuffle	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0881	Boats to Save People	C++ Python	$O(n \log n)$	$O(n)$	Medium		
0936	Stamping The Sequence	C++ Python	$O((n - m) * m)$	$O((n - m) * m)$	Hard		
0948	Bag of Tokens	C++ Python	$O(n \log n)$	$O(1)$	Medium		Two Pointers
0962	Maximum Width Ramp	C++ Python	$O(n)$	$O(n)$	Medium		Mono Stack

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0968	Binary Tree Cameras	C++ Python	$O(n)$	$O(h)$	Hard		DFS
0984	String Without AAA or BBB	C++ Python	$O(a + b)$	$O(1)$	Easy		
0991	Broken Calculator	C++ Python	$O(\log n)$	$O(1)$	Medium		
0995	Minimum Number of K Consecutive Bit Flips	C++ Python	$O(n)$	$O(1)$	Hard		
1005	Maximize Sum Of Array After K Negations	C++ Python	$O(n)$ on average	$O(1)$	Easy		Quick Select
1024	Video Stitching	C++ Python	$O(n \log n)$	$O(1)$	Medium	variant of Jump Game II	
1029	Two City Scheduling	C++ Python	$O(n)$ on average	$O(1)$	Easy		Quick Select
1053	Previous Permutation With One Swap	C++ Python	$O(n)$	$O(1)$	Medium		
1055	Shortest Way to Form String	C++ Python	$O(m + n)$	$O(m)$	Medium	 , variant of Minimum Window Subsequence	
1058	Minimize Rounding Error to Meet Target	C++ Python	$O(n)$ on average	$O(n)$	Medium		Quick Select

Graph

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0765	Couples Holding Hands	C++ Python	$O(n)$	$O(n)$	Hard		
0924	Minimize Malware Spread	C++ Python	$O(n^2)$	$O(n)$	Hard		Union Find
0928	Minimize Malware Spread II	C++ Python	$O(n^2)$	$O(n)$	Hard		Union Find
0959	Regions Cut By Slashes	C++ Python	$O(n^2)$	$O(n^2)$	Medium		Union Find
0990	Satisfiability of Equality Equations	C++ Python	$O(n)$	$O(1)$	Medium		Union Find
1042	Flower Planting With No Adjacent	C++ Python	$O(n)$	$O(n)$	Easy		





Geometry

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0587	Erect the Fence	C++ Python	$O(n \log n)$	$O(n)$	Hard		Monotone Chain
0892	Surface Area of 3D Shapes	C++ Python	$O(n^2)$	$O(1)$	Easy		

Simulation

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0874	Walking Robot Simulation	C++ Python	$O(n + k)$	$O(k)$	Easy		

Design

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0146	LRU Cache	C++ Python	$O(1)$	$O(k)$	Hard		
0225	Implement Stack using Queues	C++ Python	push: $O(n)$, pop: $O(1)$, top: $O(1)$	$O(n)$	Easy		
0284	Peeking Iterator	C++ Python	$O(1)$	$O(1)$	Medium		
0348	Design Tic-Tac-Toe	C++ Python	$O(1)$	$O(n^2)$	Medium		
0353	Design Snake Game	C++ Python	$O(1)$	$O(s)$	Medium		Deque
0355	Design Twitter	C++ Python	$O(k \log u)$	$O(t + f)$	Medium	LintCode	Heap
0359	Logger Rate Limiter	C++ Python	$O(1)$, amortized	$O(k)$	Easy		Deque
0362	Design Hit Counter	C++ Python	$O(1)$, amortized	$O(k)$	Medium		Deque
0379	Design Phone Directory	C++ Python	$O(1)$	$O(n)$	Medium		
0380	Insert Delete GetRandom $O(1)$	C++ Python	$O(1)$	$O(n)$	Hard		
0381	Insert Delete GetRandom $O(1)$ - Duplicates allowed	C++ Python	$O(1)$	$O(n)$	Hard		
0432	All O`one Data Structure	C++ Python	$O(1)$	$O(n)$	Hard		
0460	LFU Cache	C++ Python	$O(1)$	$O(k)$	Hard		
0535	Encode and Decode TinyURL	C++ Python	$O(1)$	$O(n)$	Medium		
0588	Design In-Memory File System	C++ Python	ls: $O(l + k \log k)$ mkdir: $O(l)$ addContentToFile: $O(l + c)$ readContentFromFile: $O(l + c)$	$O(n + s)$	Hard		
0604	Design Compressed String Iterator	C++ Python	$O(1)$	$O(1)$	Easy		
0631	Design Excel Sum Formula	C++ Python	set: $O((r * c)^2)$ get: $O(1)$ sum: $O((r * c)^2)$	$O(r * c)$	Hard		
0635	Design Log Storage System	C++ Python	put: $O(1)$ retrieve: $O(n + d \log d)$	$O(n)$	Medium		
0642	Design Search Autocomplete System	C++ Python	$O(p^2)$	$O(p * t + s)$	Hard		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0715	Range Module	C++ Python	add: $O(n)$ remove: $O(n)$ query: $O(\log n)$	$O(n)$	Hard		
0716	Max Stack	C++ Python	push: $O(\log n)$ pop: $O(\log n)$ popMax: $O(\log n)$ top: $O(1)$ peekMax: $O(1)$	$O(n)$	Easy		
0745	Prefix and Suffix Search	C++ Python	ctor: $O(w * l^2)$ search : $O(p + s)$	$O(t)$	Hard		Trie
0900	RLE Iterator	C++ Python	$O(n)$	$O(1)$	Medium		

SQL

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0175	Combine Two Tables	MySQL	$O(m + n)$	$O(m + n)$	Easy		
0176	Second Highest Salary	MySQL	$O(n)$	$O(1)$	Easy		
0177	Nth Highest Salary	MySQL	$O(n^2)$	$O(n)$	Medium		
0178	Rank Scores	MySQL	$O(n^2)$	$O(n)$	Medium		
0180	Consecutive Numbers	MySQL	$O(n)$	$O(n)$	Medium		
0181	Employees Earning More Than Their Managers	MySQL	$O(n^2)$	$O(1)$	Easy		
0182	Duplicate Emails	MySQL	$O(n^2)$	$O(n)$	Easy		
0183	Customers Who Never Order	MySQL	$O(n^2)$	$O(1)$	Easy		
0184	Department Highest Salary	MySQL	$O(n^2)$	$O(n)$	Medium		
0185	Department Top Three Salaries	MySQL	$O(n^2)$	$O(n)$	Hard		
0196	Delete Duplicate Emails	MySQL	$O(n^2)$	$O(n)$	Easy		
0197	Rising Temperature	MySQL	$O(n^2)$	$O(n)$	Easy		
0262	Trips and Users	MySQL	$O((t * u) + t \log t)$	$O(t)$	Hard		
1045	Customers Who Bought All Products	MySQL	$O(n + k)$	$O(n + k)$	Medium		
1050	Actors and Directors Who Cooperated At Least Three Times	MySQL	$O(n)$	$O(n)$	Easy		
1068	Product Sales Analysis I	MySQL	$O(m + n)$	$O(m + n)$	Easy		
1069	Product Sales Analysis II	MySQL	$O(n)$	$O(n)$	Easy		
1070	Product Sales Analysis III	MySQL	$O(n)$	$O(n)$	Medium		

Shell Script

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0192	Word Frequency	Shell	$O(n)$	$O(k)$	Medium		

#	Title	Solution	Time	Space	Difficulty	Tag	Note
0193	Valid Phone Numbers	Shell	$O(n)$	$O(1)$	Easy		
0194	Transpose File	Shell	$O(n^2)$	$O(n^2)$	Medium		
0195	Tenth Line	Shell	$O(n)$	$O(1)$	Easy		