Pandoc Markdown

A VSCode extension for wrinting Pandoc Markdown documents using Pandoc

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# Leetcode刷題學習筆記–Blind Curated 75

https://hackmd.io/B5OJc3twTAOJg6yEysmOoA

[Best practice questions](https://www.techinterviewhandbook.org/best-practice-questions/)

[blind-75-leetcode-questions](https://leetcode.com/discuss/general-discussion/460599/blind-75-leetcode-questions)

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| Question | Difficulty | Note |
| 1.[Two Sum](https://leetcode.com/problems/two-sum/) | Easy | hash map |
| 2.[Longest Substring Without Repeating Characters](https://leetcode.com/problems/longest-substring-without-repeating-characters/)👍 | Medium | Slinding-Window + HashMap，遇到相同的char且位置大於left，則跳到相同char的下一個位置。 |
| 3.[Longest Palindromic Substring](https://leetcode.com/problems/longest-palindromic-substring/submissions/) | Medium | DP : dp[i][j] 從i到j是否為palindromic string |
| 4.[Container With Most Water](https://leetcode.com/problems/container-with-most-water/) | Medium | two-pointers |
| 5.[3Sum](https://leetcode.com/problems/3sum/) | Medium | three-points |
| 6.[Remove Nth Node From End of List](https://leetcode.com/problems/remove-nth-node-from-end-of-list/) | Medium | fast slow pointers |
| 7.[Valid Parentheses](https://leetcode.com/problems/valid-parentheses/) | Easy | stack |
| 8.[Merge Two Sorted Lists](https://leetcode.com/problems/merge-two-sorted-lists/) | Easy | 使用dummy node和two pointers |
| 9.[Merge k Sorted Lists](https://leetcode.com/problems/merge-k-sorted-lists/solution/) | Hard | 兩兩list合併，O(NlogK), K : size of lists, N : max length of list |
| 10.[Search in Rotated Sorted Array](https://leetcode.com/problems/search-in-rotated-sorted-array/) | Medium | 觀察rotated array，當nums[mid] > nums[right] 為左半邊有序，否則為右半邊有序。 |
| 11.[Combination Sum IV](https://leetcode.com/problems/combination-sum-iv/) | Medium | DP : dp[i] 加到i的數目 = sum(i - sum[j]); |
| 12.[Rotate Image](https://leetcode.com/problems/rotate-image/submissions/) | Medium | 有space O(1)的做法。 |
| 13.[Group Anagrams](https://leetcode.com/problems/group-anagrams/) | Medium | 把排序過的string當成unordered\_map的key |
| 14.[Maximum Subarray](https://leetcode.com/problems/maximum-subarray/) | Medium | DP，dp[i] = max(dp[i - 1] + nums[i], nums[i]); |
| 15.[Spiral Matrix](https://leetcode.com/problems/spiral-matrix/)👍 | Medium | 右->下->左->上 |
| 16.[Jump Game](https://leetcode.com/problems/jump-game/submissions/) | Medium | maxidx = max(maxidx, i + nums[i]); |
| 17.[Merge Intervals](https://leetcode.com/problems/merge-intervals/) | Medium | 排序然後一個一個合併 |
| 18.[Insert Interval](https://leetcode.com/problems/insert-interval/)👍 | Medium | 判斷是否overlap然後合併。 |
| 19.[Unique Paths](https://leetcode.com/problems/unique-paths/submissions/) | Medium | DP |
| 20.[Climbing Stairs](https://leetcode.com/problems/climbing-stairs/) | Easy | DP |
| 21.[Set Matrix Zeroes](https://leetcode.com/problems/set-matrix-zeroes/) | Medium | 使用cleanRow0, cleanColumn0, matrix[y][0]和matrix[0][x]來記錄要清除的row和column。 |
| 22.[Minimum Window Substring](https://leetcode.com/problems/minimum-window-substring/)👍 | Hard | Slinding window |
| 23.[Word Search](https://leetcode.com/problems/word-search/) | Medium | Backtracking，標記已使用過的char |
| 24.[Decode Ways](https://leetcode.com/problems/decode-ways/)👍 | Medium | DP |
| 25.[Validate Binary Search Tree](https://leetcode.com/problems/validate-binary-search-tree/) | Medium | DFS: 使用(max, min)每次往下都更新必較的範圍。 |
| 26.[Same Tree](https://leetcode.com/problems/same-tree/) | Easy | DFS |
| 27.[Binary Tree Level Order Traversal](https://leetcode.com/problems/binary-tree-level-order-traversal/submissions/) | Medium | 使用queue來記錄每一層的node |
| 28.[Maximum Depth of Binary Tree](https://leetcode.com/problems/maximum-depth-of-binary-tree/) | Easy | post-order traversal |
| 29.[Construct Binary Tree from Preorder and Inorder Traversal](https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/) | Medium | preorder第一個是root, 找出root在inorder中，root左邊是left, root右邊是right |
| 30.[Best Time to Buy and Sell Stock](https://leetcode.com/problems/best-time-to-buy-and-sell-stock/) | Easy | Greedy，每次都記錄遇過的最小值。 |
| 31.[Binary Tree Maximum Path Sum](https://leetcode.com/problems/binary-tree-maximum-path-sum/)👍 | Hard | post-order : 先知道child之後才可以判斷parent |
| 32.[Valid Palindrome](https://leetcode.com/problems/valid-palindrome/) | Easy | 使用two pointer，isalnum(), tolower() |
| 33.[Longest Consecutive Sequence](https://leetcode.com/problems/longest-consecutive-sequence/)👍 | Medium | 使用unordered\_map，判斷有沒有前後的數字，然後把它接起來。 |
| 34.[Clone Graph](https://leetcode.com/problems/clone-graph/) | Medium | [解答](/XfUiK191STCsppXWkgjbXQ#133-Clone-Graph)，使用map記住新舊node的對應 |
| 35.[Word Break](https://leetcode.com/problems/word-break/) | Medium | DP |
| 36.[Linked List Cycle](https://leetcode.com/problems/linked-list-cycle/) | Easy | fast-slow pointers |
| 37.[Reorder List](https://leetcode.com/problems/reorder-list/) | Medium | 用Stack紀錄ListNode，然後串接起來。 |
| 38.[Maximum Product Subarray](https://leetcode.com/problems/maximum-product-subarray/) | Medium | DP, 最大值有可是最小值x負值變成最大值。 |
| 39.[Find Minimum in Rotated Sorted Array](https://leetcode.com/problems/find-minimum-in-rotated-sorted-array/submissions/) | Medium | 比較nums[mid]和nums[right]來判斷是左半還是右半。 |
| 40.[Reverse Bits](https://leetcode.com/problems/reverse-bits/)👍 | Easy | 有O(1)的解法 |
| 41.[Number of 1 Bits](https://leetcode.com/problems/number-of-1-bits/) | Easy | n = n & (n - 1); |
| 42.[House Robber](https://leetcode.com/problems/house-robber/) | Medium | DP: dp[i] = max(take, notake); |
| 43.[Number of Islands](https://leetcode.com/problems/number-of-islands/) | Medium | DFS |
| 44.[Reverse Linked List](https://leetcode.com/problems/reverse-linked-list/) | Easy | recursive |
| 45.[Course Schedule](https://leetcode.com/problems/course-schedule/)👍 | Medium | 統計每個課程需要修的次數和修了之後那些可以減少 |
| 46.[Implement Trie (Prefix Tree)](https://leetcode.com/problems/implement-trie-prefix-tree/) | Medium | 使用unordered\_map<char, node \*> |
| 47.[Design Add and Search Words Data Structure](https://leetcode.com/problems/design-add-and-search-words-data-structure/) | Medium | 使用trie，search時遇到’.’就連帶尋找全部的可能 |
| 48.[Word Search II](https://leetcode.com/problems/word-search-ii/)👍 | Hard | Trie + Recursive |
| 49.[House Robber II](https://leetcode.com/problems/house-robber-ii/) | Medium | DP : 多傳一個變數來判斷是否rob 1 |
| 50.[Contains Duplicate](https://leetcode.com/problems/contains-duplicate/) | Easy | 使用set來判斷 |
| 51.[Invert Binary Tree](https://leetcode.com/problems/invert-binary-tree/) | Easy | Recursive, preorder traversal |
| 52.[Kth Smallest Element in a BST](https://leetcode.com/problems/kth-smallest-element-in-a-bst/) | Medium | inoder transversal 就可以達到由小到大的值。 |
| 53.[Lowest Common Ancestor of a Binary Search Tree](https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/) | Easy | 利用BST的特性，看看p, q和root->val的關係。 |
| 54.[Product of Array Except Self](https://leetcode.com/problems/product-of-array-except-self/) | Medium | 列出forward和backward vector |
| 55.[Valid Anagram](https://leetcode.com/problems/valid-anagram/) | Easy | 使用vector統計 |
| 56.[Meeting Rooms](https://leetcode.com/problems/meeting-rooms) | Easy | 🙈 |
| 57.[Meeting Rooms II](https://leetcode.com/problems/meeting-rooms-ii/) | Medium | 使用priority\_queue來記錄最快結束的room🙈| | 58.[Graph Valid Tree](https://leetcode.com/problems/graph-valid-tree/) | Medium | Union Find | | 59.[Missing Number](https://leetcode.com/problems/missing-number/) | Easy | 先把總和算出來再減掉全部數值 | | 60.[Alien Dictionary](https://leetcode.com/problems/alien-dictionary) | Hard | ![🙈](https://assets.hackmd.io/build/emojify.js/dist/images/basic/see\_no\_evil.png) | | 61.[Encode and Decode Strings](https://leetcode.com/problems/encode-and-decode-strings) | Medium | ![🙈](https://assets.hackmd.io/build/emojify.js/dist/images/basic/see\_no\_evil.png) | | 62.[Find Median from Data Stream](https://leetcode.com/problems/find-median-from-data-stream/)![👍](https://assets.hackmd.io/build/emojify.js/dist/images/basic/+1.png) | Hard | 1 2 3 [4] 5 6 7–**–**-> <**–**–**–**minheapmaxheap | | 64.[Serialize and Deserialize Binary Tree](https://leetcode.com/problems/serialize-and-deserialize-binary-tree/) | Hard | istringstreamostringstream``roo->val left-tree right-tree |
| 65.[Longest Increasing Subsequence](https://leetcode.com/problems/longest-increasing-subsequence/) | Medium | DP |
| 66.[Coin Change](https://leetcode.com/problems/coin-change/) | Medium | dp[i] = min(dp[i], dp[i - c]); c 為 coin[j] |
| 67.[Number of Connected Components in an Undirected Graph](https://leetcode.com/problems/number-of-connected-components-in-an-undirected-graph/) | Medium | Union Find🙈 |
| 68.[Counting Bits](https://leetcode.com/problems/counting-bits/) | Easy | 利用以前的結果 |
| 69.[Top K Frequent Elements](https://leetcode.com/problems/top-k-frequent-elements/) | Medium | 使用map或是bucket sort都可以達到。 |
| 70.[Sum of Two Integers](https://leetcode.com/problems/sum-of-two-integers/)👍 | Medium | Recursive，getSum(a ^ b, ((unsigned int)(a & b)) << 1); |
| 71.[Pacific Atlantic Water Flow](https://leetcode.com/problems/pacific-atlantic-water-flow/) | Medium | 使用BFS分別找出可以流向pacific和atlantic的點 |
| 72.[Longest Repeating Character Replacement](https://leetcode.com/problems/longest-repeating-character-replacement/)👍 | Medium | Slinding window, 如果已經找到一個答案window的大小就不用小於這個答案。 |
| 73.[Non-overlapping Intervals](https://leetcode.com/problems/non-overlapping-intervals/)👍 | Medium | 排序，two-pointers，刪掉結束數字最大那個。 |
| 74.[Subtree of Another Tree](https://leetcode.com/problems/subtree-of-another-tree/)👍 | Easy | preorder traversal, 把tree serialize然後比較字串。 |
| 75.[Palindromic Substrings](https://leetcode.com/problems/palindromic-substrings/) | Medium | DP : dp[i][j] 從i到j是palindromic substring |

###### tags: leetcode``刷題