

1 CheatSheet: Common Code Problems & Follow-ups

INTERVIEW

- PDF Link: [cheatsheet-followup-A4.pdf](#), Category: interview
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-followup-A4>
- Related posts: CheatSheet: System Design For Job Interview, [#denny-cheatsheets](#)

File me Issues or star this repo.

1.1 Review Problems By Category

| Num | Name | Summary |
|-----|-------------------------------------|---|
| 1 | #binarytree | Review: Binary Tree Problems |
| 2 | #linkedlist | Review: Linked List Problems |
| 3 | #binarysearch | Review: Binary Search Problems |
| 4 | #dynamicprogramming | Review: Dynamic Programming Problems |
| 5 | #twopointer | Review: TwoPointers Problems |
| 6 | #trie | Review: Trie Tree Problems |
| 7 | #string | Review: String Problems |
| 8 | #stack | Review: Stack Problems |
| 9 | #bfs | Review: BFS Problems |
| 10 | #dfs | Review: DFS Problems |
| 11 | #array | Review: Array/SubArray Problems |
| 12 | #hashmap | Review: Hashmap Problems |
| 13 | #minimax | Review: minimax Problems |
| 14 | #monotone | Review: Monotone Stack Or Monotone Queue Problems |
| 15 | #knapsack | Review: Knapsack Problems |
| 16 | #heap | Review: Heap Problems |
| 17 | #divideconquer | Review: Divide And Conquer Problems |
| 18 | #backtracking | Review: Backtracking Problems |
| 19 | #unionfind | Review: Union Find Problems |
| 20 | #greedy | Review: Greedy Problems |
| 21 | #gcd | Review: GCD Problems |
| 22 | #interval | Review: Interval Problems |
| 23 | #combination | Review: Combinations and Permutations Problems |
| 24 | #sql | Review: SQL Problems |
| 25 | #sqrt | Review: sqrt Problems |
| 26 | #bucketsort | Review: Bucketsort Problems |
| 27 | #countsort | Review: Countsort Problems |
| 28 | #topologicalsort | Review: Topological Sort Problems |
| 29 | #random | Review: Random Problems |
| 30 | #concurrency | Review: Concurrency Problems |

1.2 70 Typical Code Problems & Follow-ups

| Num | Category/Tag | Example |
|-----|---------------------------------|---|
| 1 | #atmostkdistinct, #string | Substring with at most k distinct characters |
| 2 | #twosum, #array | TwoSum Problems & Follow-Up |
| 3 | #maxsubarraysum, #array | Maximum subarray problem |
| 4 | #nextpermutation, #string | Get the next permutation of an array |
| 5 | #editdistance, #string | Word Distance & Follow-up |
| 6 | #baseconversion | Base Conversion Problems & Follow-Up |
| 7 | #presum, #array | Caculate sum of a range quickly |
| 8 | #fibonacci | Fibonacci Problems & Follow-Up |
| 9 | #mergelist | Merge K Sorted List Problems & Follow-up |
| 10 | #sortedmatrix | Sorted 2D Matrix Problems & Follow-up |
| 11 | #endswith | Endswith Problems & Follow-up |
| 12 | #island, #dfs, #bfs, #unionfind | Island Problems & Follow-up |
| 13 | #matrixtraversal, #array | Matrix Traversal & Follow-up |
| 14 | #rangesum | Caculate range sum of a slice |
| 15 | #reverseitem | Reverse List/String & Follow-up |
| 16 | #topk, #heap | Top k elements of a problem domain |
| 17 | #subsequence | Find Subsequence In Strings & Follow-up |
| 18 | #findduplicates | Find duplicates from a list & Follow-up |
| 19 | #lis | Longest increasing subsequence & Follow-up |
| 20 | #lcs | Longest common subsequence & Follow-up |
| 21 | #coin | Coin Problems & Follow-Up |
| 22 | #frogjump | Frog Jump Game & Follow-up |
| 23 | #houserobber | House Robber & Follow-up |
| 24 | #paintfence | Paint Fence & Follow-up |
| 25 | #rectangle | https://code.dennyzhang.com/followup-rectangle |
| 26 | #geometry | Geometry Problems & Follow-up |
| 27 | #reachpoint | Reach point Problems & Follow-Up |
| 28 | #getmedian | Get Median Problems & Follow-Up |
| 29 | #wiggle | Wiggle Array Problems & Follow-up |
| 30 | #groupelements | Seperate a list into several groups |
| 31 | #treetraversal, #binarytree | Tree Traversal & Follow-up |
| 32 | #calculator | Calculator & Follow-up |
| 33 | #meetingconflict | Meeting Conflict Problems & Follow-up |
| 34 | #meetingpoint | Meeting Point Problems & Follow-up |
| 35 | #convertids | Convert Data Structure Problems & Follow-Up |
| 36 | #expression | Expression Problems & Follow-Up |
| 37 | #ipaddress | IP Address Problems & Follow-Up |
| 38 | #poison | Poison Problems & Follow-up |
| 39 | #slidingpuzzle | Sliding Puzzle & Follow-up |
| 40 | #trappingrain | Trapping Rain & Follow-up |
| 41 | #parentheses | Parentheses problems & Follow-up |
| 42 | #buystock | Buystock Problems & Follow-Up |
| 43 | #countdistinctmoves | Count of distinct moves Problems & Follow-Up |
| 44 | #maxprofitwithcost | Maximum profits with certain costs Problems & Follow-up |
| 45 | #constructstring | Construct string Problems & Follow-up |
| 46 | #constructarray | Construct array Problems & Follow-up |
| 47 | #colorgraph | Coloring graph nodes Problems & Follow-up |
| 48 | #graphchange cell | Change cells of graph Problems & Follow-up |
| 49 | #splitarray | Split Array Problems & Follow-up |
| 50 | #multiplechoices | Multiple Choices At Each Step Problems & Follow-Up |
| 51 | #rollinghash | Rolling Hash Problems & Follow-up |
| 52 | #lfu | LFU - Least Frequently Used Cache Problems & Follow-up |
| 53 | #mountainarray | Mountain Array Problems & Follow-Up |
| 54 | #interval dp | Dynamic Programming On Interval Problems & Follow-up |
| 55 | #treedp | Dynamic Programming On Binary Tree Problems & Follow-up |
| 56 | #possibilities | Possibilities Problems & Follow-up |
| 57 | #uglynumber | Ugly Number Problems & Follow-up |
| 58 | #prime | Prime Problems & Follow-up |
| 59 | #geometry | Geometry Problems & Follow-up |
| 60 | #palindrome | Palindrome Problems & Follow-Up |

1.3 More Resources

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