## 1 CheatSheet: Common Code Problems & Follow-ups

INTERVIEW

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- PDF Link: cheatsheet-behavior-A4.pdf, Category: interview
- $\bullet \ \operatorname{Blog} \ \operatorname{URL:} \ \mathtt{https://cheatsheet.dennyzhang.com/cheatsheet-followup-A4}$
- $\bullet$  Related posts: Cheat Sheet: System Design For Code Interview, #denny-cheat sheets

File me Issues or star this repo.

## 1.1 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	#island, #dfs, #bfs, #unionfind	Island Problems & Follow-up
10	#matrixtraversal, $#$ array	Matrix Traversal & Follow-up
11	#rangesum	Caculate range sum of a slice
12	#reverseitem	Reverse List/String & Follow-up
13	# topk, # heap	Top k elements of a problem domain
14	# subsequence	Find Subsequence In Strings & Follow-up
15	$\#\mathrm{lis}$	Longest increasing subsequence & Follow-up
16	$\#\mathrm{lcs}$	Longest common subsequence & Follow-up
17	$\# \mathrm{findduplicates}$	Find duplicates from a list & Follow-up
18	$\#\mathrm{coin}$	Coin Problems & Follow-Up
19	$\# \mathrm{wiggle}$	Wiggle Array Problems & Follow-up
20	#groupelements	Seperate a list into several groups
21	#treetraversal, $#$ binarytree	Tree Traversal & Follow-up
22	$\# { m calculator}$	Calculator & Follow-up
23	# meeting conflict	Meeting Conflict Problems & Follow-up
24	$\# { m meeting point}$	Meeting Point Problems & Follow-up
25	#convertds	Convert Data Structure Problems & Follow-Up
26	#expression	Expression Problems & Follow-Up
27	$\# { m frogjump}$	Frog Jump Game & Follow-up
28	#houserobber	House Robber & Follow-up
29	# ipaddress	IP Address Problems & Follow-Up
30	#paintfence	Paint Fence & Follow-up
31	#poison	Poison Problems & Follow-up
32	#slidingpuzzle	Sliding Puzzle & Follow-up
33	$\# { m trapping rain}$	Trapping Rain & Follow-up
34	#parentheses	Parentheses problems & Follow-up
35	#buystock	Buystock Problems & Follow-Up
36	#countdistinctmoves	Count of distinct moves Problems & Follow-Up
37	#maxprofitwithcost	Maximum profits with certain costs Problems & Follow-up
38	#constructstring	Construct string Problems & Follow-up
39	#colorgraph	Coloring graph nodes Problems & Follow-up
40	#graphchangecell	Change cells of graph Problems & Follow-up
41	#splitarray	Split Array Problems & Follow-up

## 1.2 Review Problems By Category

Num	Name	Summary
1	#binarytree	Review: Binary Tree Problems
2	# linked list	Review: Linked List Problems
3	$\# { m binary search}$	Review: Binary Search Problems
4	#dynamic programming	Review: Dynamic Programming Problems
5	$\# { m twopointer}$	Review: TwoPointers Problems
6	$\# ext{trie}$	Review: Trie Tree Problems
7	$\# \mathrm{string}$	Review: String Problems
8	$\#\mathrm{stack}$	Review: Stack Problems
9	$\#\mathrm{bfs}$	Review: BFS Problems
10	$\#\mathrm{dfs}$	Review: DFS Problems
11	$\# { m array}$	Review: Array/SubArray Problems
12	$\# { m hashmap}$	Review: Hashmap Problems
13	$\# \mathrm{monotone}$	Review: Monotone Stack Or Monotone Queue Problems
14	$\# \mathrm{knapsack}$	Review: Knapsack Problems
15	$\#\mathrm{heap}$	Review: Heap Problems
16	#divideconquer	Review: Divide And Conquer Problems
17	#backtracking	Review: Backtracking Problems
18	$\# \mathrm{unionfind}$	Review: Union Find Problems
19	#greedy	Review: Greedy Problems
20	$\#\mathrm{gcd}$	Review: GCD Problems
21	# interval	Review: Interval Problems
22	# combination	Review: Combinations and Permutations Problems
23	$\#\mathrm{sql}$	Review: SQL Problems
24	$\#\mathrm{sqrt}$	Review: sqrt Problems
25	# bucketsort	Review: Bucketsort Problems
26	$\# { m countsort}$	Review: Countsort Problems
27	$\# { m topological sort}$	Review: Topological Sort Problems
28	$\#\mathrm{random}$	Review: Random Problems

## 1.3 More Resources

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