

# 1 CheatSheet: 30 Common Code Problems & Follow-ups

## LANGUAGES

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

File me Issues or star this repo.

## 1.1 Code Problems & Follow-ups

Num	Category/Tag	Example
1	<a href="#">#atmostkdistinct</a> , <a href="#">#string</a>	Substring with at most k distinct characters
2	<a href="#">#twosum</a> , <a href="#">#array</a>	TwoSum Problems & Follow-Up
3	<a href="#">#maxsubarraysum</a> , <a href="#">#array</a>	Maximum subarray problem
4	<a href="#">#nextpermutation</a> , <a href="#">#string</a>	Get the next permutation of an array
5	<a href="#">#editdistance</a> , <a href="#">#string</a>	Word Distance & Follow-up
6	<a href="#">#baseconversion</a>	Base Conversion Problems & Follow-Up
7	<a href="#">#presum</a> , <a href="#">#array</a>	Caculate sum of a range quickly
8	<a href="#">#fibonacci</a>	Fibonacci Problems & Follow-Up
9	<a href="#">#island</a> , <a href="#">#dfs</a> , <a href="#">#bfs</a> , <a href="#">#unionfind</a>	Island Problems & Follow-up
10	<a href="#">#matrixtraversal</a> , <a href="#">#array</a>	Matrix Traversal & Follow-up
11	<a href="#">#rangesum</a>	Caculate range sum of a slice
12	<a href="#">#reverseitem</a>	Reverse List/String & Follow-up
13	<a href="#">#topk</a> , <a href="#">#heap</a>	Top k elements of a problem domain
14	<a href="#">#subsequence</a>	Find Subsequence In Strings & Follow-up
15	<a href="#">#lis</a>	Longest increasing subsequence & Follow-up
16	<a href="#">#wiggle</a>	Wiggle Array Problems & Follow-up
17	<a href="#">#groupelements</a>	Seperate a list into several groups
18	<a href="#">#treetraversal</a> , <a href="#">#binarytree</a>	Tree Traversal & Follow-up
19	<a href="#">#calculator</a>	Calculator & Follow-up
20	<a href="#">#meetingconflict</a>	Meeting Conflict Problems & Follow-up
21	<a href="#">#meetingpoint</a>	Meeting Point Problems & Follow-up
22	<a href="#">#converttds</a>	Convert Data Structure Problems & Follow-Up
23	<a href="#">#expression</a>	Expression Problems & Follow-Up
24	<a href="#">#frogjump</a>	Frog Jump Game & Follow-up
25	<a href="#">#houserobber</a>	House Robber & Follow-up
26	<a href="#">#ipaddress</a>	IP Address Problems & Follow-Up
27	<a href="#">#paintfence</a>	Paint Fence & Follow-up
28	<a href="#">#poison</a>	Poison Problems & Follow-up
29	<a href="#">#slidingpuzzle</a>	Sliding Puzzle & Follow-up
30	<a href="#">#trappingrain</a>	Trapping Rain & Follow-up

## 1.2 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	#monotone	Review: Monotone Stack Or Monotone Queue Problems
14	#knapsack	Review: Knapsack Problems
15	#heap	Review: Heap Problems
16	#divideconquer	Review: Divide And Conquer Problems
17	#backtracking	Review: Backtracking Problems
18	#unionfind	Review: Union Find Problems
19	#greedy	Review: Greedy Problems
20	#gcd	Review: GCD Problems
21	#interval	Review: Interval Problems
22	#combination	Review: Combinations and Permutations Problems
23	#sql	Review: SQL Problems
24	#sqrt	Review: sqrt Problems

## 1.3 More Resources

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