

RECURSION & BACKTRACKING SDE SHEET

(RIDDHI DUTTA)

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For more such technical content.

DISCLAIMER - The problems have been sorted based on relevance and difficulty. Similar problems are grouped together. Also , before starting with **Backtracking** , it's good to know concepts of **Recursion**. ([My lecture on Recursion](#))

Recursion

<https://leetcode.com/problems/subsets-ii/>

<https://leetcode.com/problems/combination-sum/>

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<https://leetcode.com/problems/permutation-sequence/>

<https://leetcode.com/problems/find-the-winner-of-the-circular-game/>

Backtracking

<https://leetcode.com/problems/permutations/> (Also [checkout this video](#) while you solve this)

<https://leetcode.com/problems/permutations-ii/>

<https://leetcode.com/problems/letter-combinations-of-a-phone-number/>

<https://leetcode.com/problems/generate-parentheses/>

<https://leetcode.com/problems/palindrome-partitioning/>

<https://leetcode.com/problems/generalized-abbreviation/>

<https://practice.geeksforgeeks.org/problems/largest-number-in-k-swaps-1587115620/1>

<https://practice.geeksforgeeks.org/problems/partition-array-to-k-subsets/1>

<https://practice.geeksforgeeks.org/problems/rat-in-a-maze-problem/1>

<https://leetcode.com/problems/n-queens/>

<https://leetcode.com/problems/sudoku-solver/>

<https://practice.geeksforgeeks.org/problems/m-coloring-problem-1587115620/1#>

<https://leetcode.com/problems/maximum-length-of-a-concatenated-string-with-unique-characters/>

<https://leetcode.com/problems/word-search>

<https://leetcode.com/problems/word-search-ii/> (A very special problem. Backtracking with Trie)

<https://leetcode.com/problems/remove-invalid-parentheses/>

<https://www.geeksforgeeks.org/find-shortest-safe-route-in-a-path-with-landmines/>

<https://leetcode.com/problems/optimal-account-balancing/> (Asked in Uber and Google)

<https://leetcode.com/problems/path-with-maximum-gold/>