

Week 9-10

Recursion and Backtracking

Resources:

1. <https://www.hackerearth.com/practice/basic-programming/recursion/recursion-and-backtracking/tutorial/>
2. <https://www.geeksforgeeks.org/recursion/>
3. <https://www.geeksforgeeks.org/backtracking-introduction/>

Problems:

1. Permutations - <https://leetcode.com/problems/permutations/>
 2. Generate Parentheses - <https://leetcode.com/problems/generate-parentheses/>
 3. Combinations - <https://leetcode.com/problems/combinations/>
 4. Subsets - <https://leetcode.com/problems/subsets/>
 5. Path with maximum gold - <https://leetcode.com/problems/path-with-maximum-gold/>
 6. N-Queen - <https://leetcode.com/problems/n-queens/>
 7. Longest Substring with atleast K repeating characters - <https://leetcode.com/problems/longest-substring-with-at-least-k-repeating-characters/>
 8. Jump Game - <https://leetcode.com/problems/jump-game-iii/>
 9. Help the Old Man - <https://practice.geeksforgeeks.org/problems/help-the-old-man3848/1>
 10. Valid Tic-Tac-Toe - <https://leetcode.com/problems/valid-tic-tac-toe-state/>
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LinkedList

Resources:

1. <https://www.geeksforgeeks.org/linked-list-set-1-introduction/>
2. <https://www.javatpoint.com/java-linkedlist>
3. <https://www.hackerearth.com/practice/data-structures/linked-list/singly-linked-list/tutorial/>

Problems:

1. Delete node in a linked list - <https://leetcode.com/problems/delete-node-in-a-linked-list/>
2. Reverse a linked list - <https://leetcode.com/problems/reverse-linked-list/>
3. Palindrome - <https://leetcode.com/problems/palindrome-linked-list/>

4. Rotate a linked list - <https://leetcode.com/problems/rotate-list/>
5. Design a linked list - <https://leetcode.com/problems/design-linked-list/>
6. Reverse nodes in groups of k -
<https://leetcode.com/problems/reverse-nodes-in-k-group/>
7. Detect and remove cycle in linked list -
<https://practice.geeksforgeeks.org/problems/remove-loop-in-linked-list/1>