HACKERSPACE
TOPIC: DSA LECTURE

1. **Array (15 mins):**
    a. Concept about array
    Questions & Answer
        1. Kadane's Algorithm => https://leetcode.com/problems/maximum-subarray/
        2. Majority Element (>n/2 times) => https://leetcode.com/problems/majority-element/

    Practice Problem
        1. https://www.codingninjas.com/studio/problems/longest-subarray-with-sum-k_6682399?leftPanelTabValue=PROBLEM
        2. https://leetcode.com/problems/remove-duplicates-from-sorted-array/
        3. https://leetcode.com/problems/find-peak-element/ (Binary Search)

2. **Linkedlist (10 min):**
    a. Concept of Linked List
    Question & Answer
        1. Delete Specific Node => https://leetcode.com/problems/remove-linked-list-elements/description/

    Practice Problem
        1. https://leetcode.com/problems/reverse-linked-list/
        2. https://leetcode.com/problems/intersection-of-two-linked-lists/

3. **Recursion (10 mins):**
    a. Concept of Recursion
    Question & Answer
        1. Fibonacci Sum => https://leetcode.com/problems/fibonacci-number/
    Practice Problem
        1. https://leetcode.com/problems/combination-sum/description/
        2. https://practice.geeksforgeeks.org/problems/rat-in-a-maze-problem/1

4. **Dynamic Programming (15 min)**
    a. Fibonacci continuation
    Practice Problem
        1. https://practice.geeksforgeeks.org/problems/0-1-knapsack-problem0945/1

3. Tree (15 mins):

a. Concept of Tree (Not original tree lol)
b. Binary Tree
c. Binary Search Tree

Question & Answer

1. Search in binary tree => https://leetcode.com/problems/search-in-a-binary-search-tree/description/

Practice problem

1. https://leetcode.com/problems/insert-into-a-binary-search-tree/

- Thanks & Regards
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