find max and min with minimum no of companision sot 0,2,2 I Union and Intersection First the largest sum configuous subarray 5. Find duplicates in on away s. Merge ourolapping intervals 1. Count Inwosion in on array 8 Next Permulation 4 Minimize the maximum pair 10. Best time to buy and sell stock 11. Remange moue all negative elements to one side R Rootate a may 3. Subaway with O sum. 4 Maximum product in on suborray 15. Merge two sorted array 16 Common in 3 sooled orray 17. Smallest sum subornay with sum greater than X. 18 Rotated sociled array 19. Check if a way is sooled and whated so. Sum of two array Sport 3

min

2D Amay 1 Wave Print palfern 2 Spéral Matrix 3 Rotate a Matrix by 9 9 Seasch in a 2D Matrix 5 Search in a 2D Matrix

Binary Search

- 1. First and last Occurrence in a array
- Final Peak Element
- Find & Pivot Element
- 4. Search in a sorted and restated array
- 5. Square root of a number
- 6. Search 2D Matrix
- 7. Koko Eating Baranas
- 8 Find Minimum in solated sorted array
- 9. Search in rotated stored or ay
- 20. Book Allocation
- 11. Search in 2D Matix II
- 12 Binay Search
- 13. Median of 2 two sorted array
- 14 Aggressive cows.
- 15. Floor and Ceil

Linked List

- 1. Inscation and deletion
- 2. Reverse a Linked List
- 13. Find middle of Linked List
 - 4. Remose K IL groups
 - 5. Detect and rumou loop
 - 6. Remove duplicates from array
 - 7 Meoge 2 Sosted LL
 - 8. Soot Os, 1s, 2s.
 - 9. Check Palindoome in Linked List
 - 10. Add two Numbers
 - 11 Meage Sost in LL

 - 12. Recorder List 13. Remove NH node from the ord
 - 19 Merge K Sooled Lists
 - 15. Doubly and Circules L.

8 Subsets @ Subsets IT (10) Subsequences of a string 1 Phone key pad problem @ Permutations 3 Subset Sum (4) Combination Sum 1 (6) Combination Sum 2 @ Palindsome Pastitioning 13 Word Search 1 N guens (9) Rat in a maze

1) Array Implementation: struct contains, size, *arr

1) Linked List Implementation: key words -> 2 class 1 for LL, 1 st - Stack 1 Implements 2 stacks in on arrowy: 1 arr, 2 tops, top2-top1>1 1) Delete Middle cloment from Stack: seman top store it, add a 3 Valid Parenthesis; put open broadcets, check in stack if (=) so 3 Insestat Bottom in a stack: sempre top, stose it, add after sute P Remove a stack using succession: store top element, then pe @ Redundant Brackets: pushinstack if open bracket or operators w 1) Next Smaller Element: if st lop() is less add in ons, ele check i 1 Largest Rectongular Area in Histogram: (ind next, prov, if (next 1) Min Stack: int val = min (st-top(), minstack. bpl) == 1 7 va

@ Evaluate Remose Polish Notation s. pop() = a, s.pop() = b walnu (3) Gonesale Parentheses if (open < m) - add open & incoment, i

Daily Temporatures ment greater element

Bufix, Postfix conversion symbol, stack, postfix poic

Revision Cheat Sheet

Heap & Poiosity Queue O Find Median From data Stream: if! emply left push & left size-sign K closest Points to origin: distance < pq. top(). First .pq. push (& Last Stone weight: min poisoily queue Kith largest Element in on array Soot characters by fouquency: lambda function Build Min-Heap: From \$95-1 to 0 as my to nood lead mod Kth Smallest Element Is true a Heap : iscBT & countractes & maxheap Min Cost of 'n supes Meage & Sooted Array KH Laggest Sum subarray Median in a Stream 0

(3)

(6)

Heapily

Heap Sost

Course Schedule	Graphs	Medium
Course Schedule II	Graphs	Medium
Redundant Connection	Graphs	Medium
Number of Connected Components In An Undirected Graph	Graphs	Medium
Graph Valid Tree	Graphs	Medium
Word Ladder	Graphs	Hard
Reconstruct Itinerary	Graphs	Hard
Number of Islands	Graphs	Medium
Clone Graph	Graphs	Medium
Max Area of Island	Graphs	Medium
Pacific Atlantic Water Flow	Graphs	Medium
Surrounded Regions	Graphs	Medium
Rotting Oranges	Graphs	Medium
Walls And Gates	Graphs	Medium
Min Cost to Connect All Points	Graphs	Medium
Network Delay Time	Graphs	Medium
Swim In Rising Water	Graphs	Hard
Alien Dictionary	Graphs	Hard
Cheapest Flights Within K Stops	Graphs	Medium
Coin Change	DP	Medium
Coin Change II	DP	Medium
Climbing Stairs	DP	Easy
House Robber	DP	Medium
House Robber II	DP	Medium
Jump Game	DP	Medium
Jump Game II	DP	Medium

Medium

DP

Longest Increasing Subsequence

Longest Common Subsequence	DP	Medium
Word Break Problem	DP	Medium
Combination Sum	DP	Medium
Decode Ways	DP	Medium
<u>Unique Paths</u>	DP	Medium
Pascal's Triangle	DP	Easy
Regular Expression Matching	DP	Hard
Race Car	DP	Hard
Min Cost Climbing Stairs	DP	Easy
Palindromic Substrings	DP	Medium
Maximum Product Subarray	DP	Medium
Longest Increasing Path In a Matrix	DP	Hard
Generate Parentheses	DP	Medium
Longest Valid Paranthesis	DP	Hard
Valid Parenthesis String	DP	Medium
Edit Distance	DP	Medium
Partition Equal Subset Sum	DP	Medium
<u>Unique Paths</u>	DP	Medium
Best Time To Buy and Sell Stocks	DP	Easy
Best Time To Buy and Sell Stocks II	DP	Medium
Best Time To Buy and Sell Stocks III	DP	Hard
Best Time To Buy and Sell Stocks IV	DP	Hard
Target Sum	DP	Medium
Interleaving String	DP	Medium
Regular Expression Matching	DP	Hard
Partition Labels	DP	Medium
<u>Distinct Subsequences</u>	DP	Hard
Burst Balloons	DP	Hard
Maximum Subarray	DP	Medium
Gas Station	DP	Medium
Hand of Straights	DP	Medium