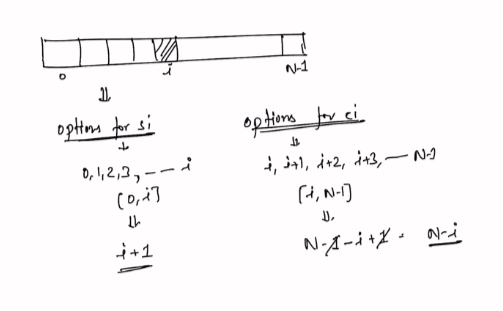
**Subarrays**  
  
1. Sum of all subarrays

Intermedite part 1/Subarray/questions/Sum of all subarrays.txt

In this consider possible start indexes and end indexes



2. Subarray Sum Equals K

Intermediate part 2/Hashing/answers/Subarray Sum Equals K.txt

3. Subsequence-Sum Problem

Intermediate part 2/Subsets and Subsequence/answers/Subsequence-Sum Problem.txt

4.Subset

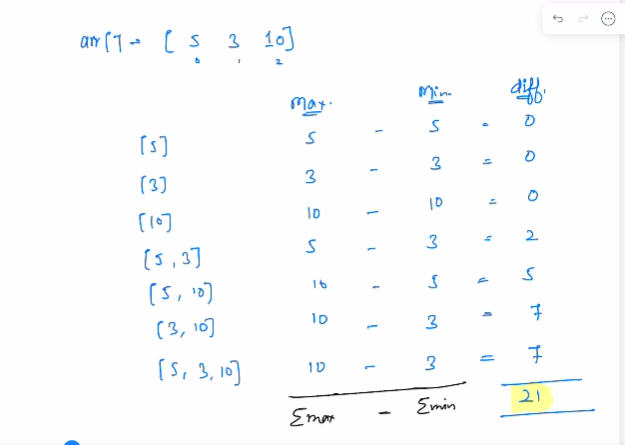
Intermediate part 2/Subsets and Subsequence/answers/Subsets.txt

5. Factors sort (using custom comparator)

Intermediate part 2/Sorting/answer/Factors sort.txt

6. Sum the difference

Intermediate part 2/Subsets and Subsequence/answers/Sum the Difference.txt

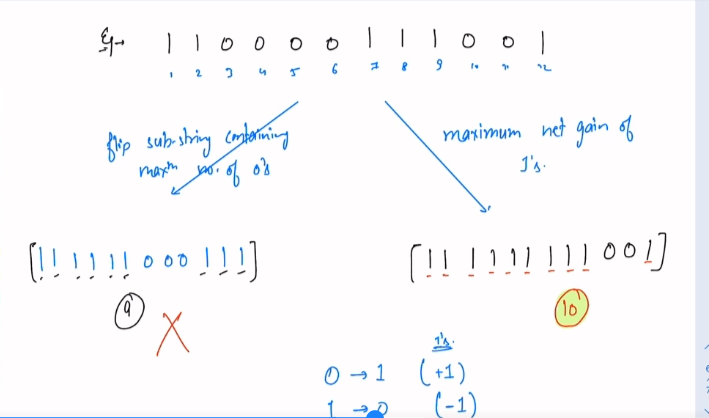


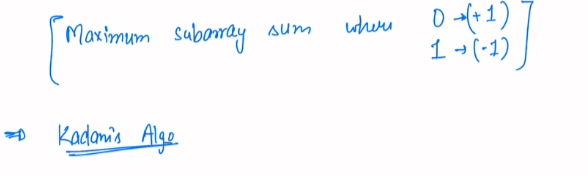
7. Counting Nodes

Intermediate part 2/Trees/answers/Counting nodes.txt

8. Flip

Advanced part 1/Arrays/one dimensional/questions/Flip.txt





9. Max Submatrix Sum

Advanced part 1/Arrays/two dimensional/questions/Maximum Submatrix Sum.txt

10. Minimum Swaps

Advanced part 1/Arrays/two dimensional/answers/Minimum Swaps.txt

11. Merge Intervals

Advanced part 1/Arrays/interview problems/answers/Merge Intervals.txt

12. Merge Overlapping Intervals

Advanced part 1/Arrays/interview problems/answers/Merge Overlapping Intervals.txt

13.Trapping Rain Water

Advanced part 1/Arrays/interview problems/answers/Rain Water Trapped.txt

14. 3Sum

Advanced part 2/2 Pointers/answers/3 Sum.txt

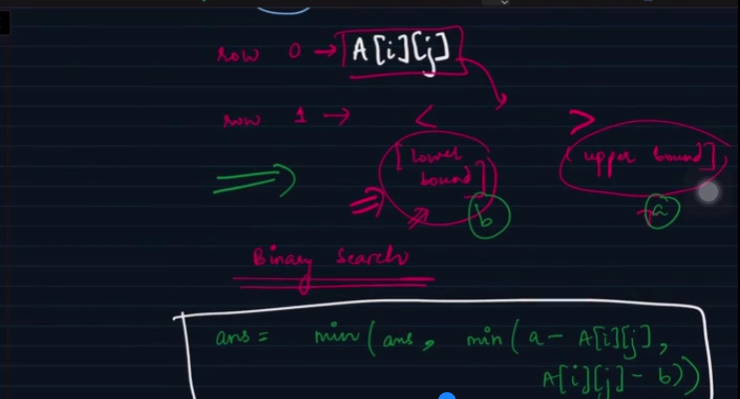
15. Pair with given Difference

Advanced part 2/2 Pointers/answers/Pairs with Given Difference.txt

16. Pairs with given sum II  
Advanced part 2/2 Pointers/answers/Pairs with given sum II.txt

17. Minimum Difference

Advanced part 2/Binary Search1/answers/Minimum Difference.txt

  
When we are doing binary search and rows are sorted in increasing fashion. If there is any element 5 and array is [1,3,4,9]. Remember that applying binary search if the exact element is not found, we always land at the upper bound ie: nearest element greater than the ele we want to find

18. Rotated Sorted Array Search

Advanced part 2/Binary Search1/answers/Rotated Sorted Array Search.txt

19. Search for range

Advanced part 2/Binary Search1/answers/Search for a Range.txt

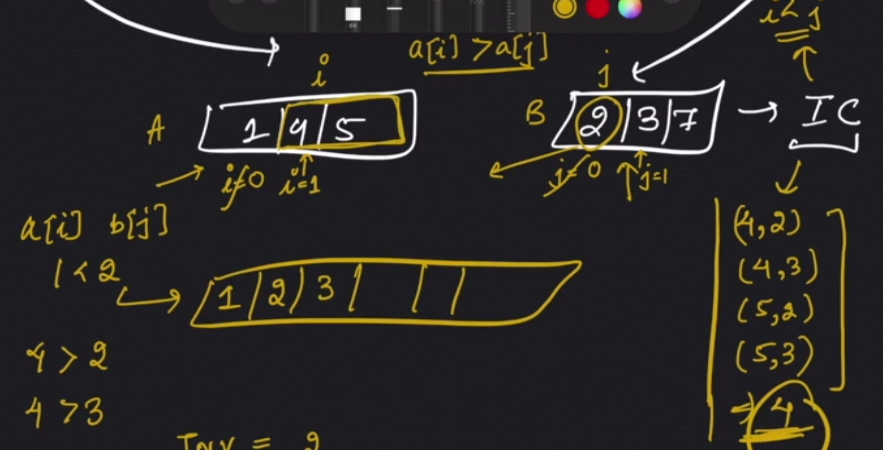
20. Sorted Insert Position

Advanced part 2/Binary Search1/answers/Sorted Insert Position.txt

21. Aggressive Cows

Advanced part 2/Binary Search2/answers/Aggressive cows.txt

22. Inversion Count



Advanced part 2/Selection, Merge Sort, Insertion and Radix Sort/answers/Inversion count in an array.txt

23. Merge Sort

Advanced part 2/Selection, Merge Sort, Insertion and Radix Sort/answers/Merge Sort.txt

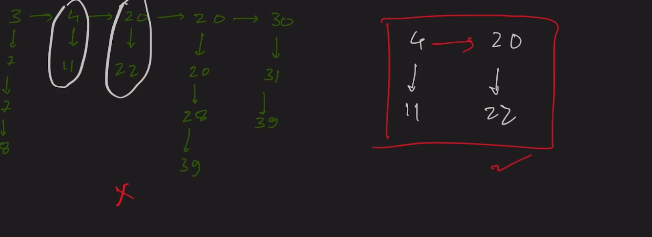
Adv DSA 3

1. Copy List

Advanced part 3/Link List/answers/Copy List.txt

1. Flatten a link list

Advanced part 3/Link List/answers/Flatten a linked list.txt



1. Longest Palindromic List

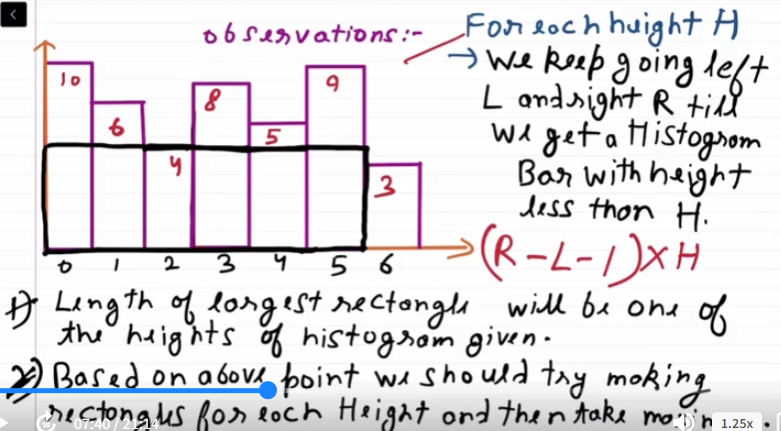
Advanced part 3/Link List/answers/Longest Palindromic List.txt

1. Merge 2 sorted lists

Advanced part 3/Link List/answers/Merge Two Sorted Lists.txt

1. Reverse Link List II  
   Advanced part 3/Link List/answers/Reverse Link List II.txt
2. Largest Rectangle in Histogram

Advanced part 3/stacks/answers/Largest Rectangle in Histogram.txt



Note:   
  
for left if no min is found

if(stk.empty()) {

arr[i] = -1;

}

For right if no min is found

if(stk1.empty()){

arr1[i]=A.length;

}

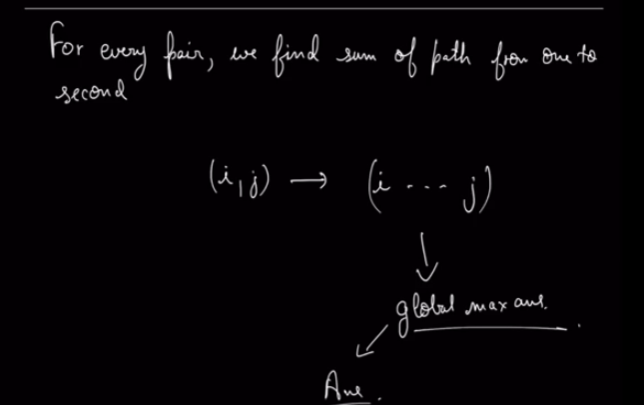
1. Next Greater Element

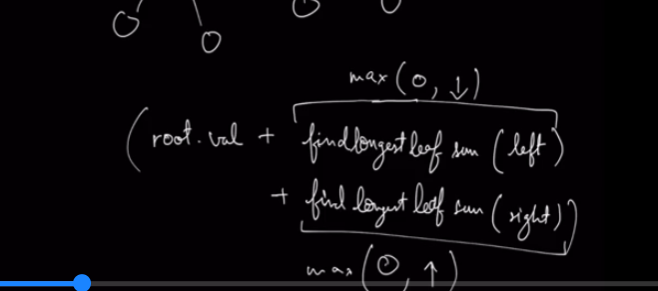
Advanced part 3/stacks/answers/Next Greater.txt

Trees

1. Max Sum Path in Binary Tree

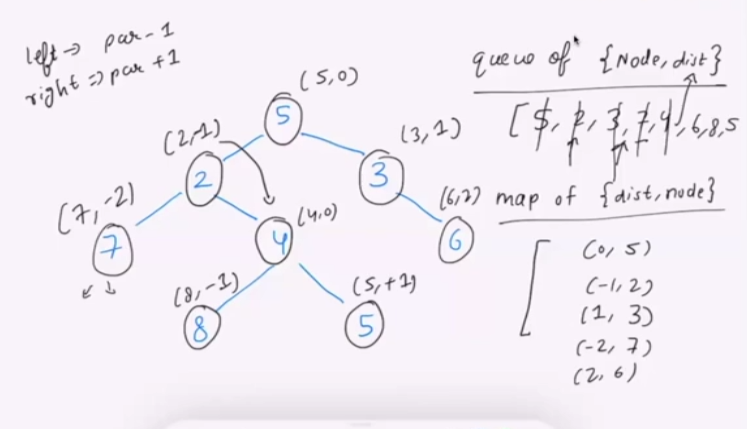
Advanced part 3/Trees/Views and Types/answers/Max Sum Path in Binary Tree.txt



  
  
We take 0 into comparison because if a path returns sum as -ve value we should not consider it.

1. Top View of Binary Tree

Advanced part 3/Trees/Views and Types/answers/Top View of Binary tree.txt



For every node we keep assigning a distance. And store the next level of node which need to explored in a queue. Suppose there is already a node present in the map for a given distance then we do not assign it again.