& Problem Solving Session &

let us solve problems based on trees and Linked list.



Hello Everyone

Very Special Good Evening
to all of you

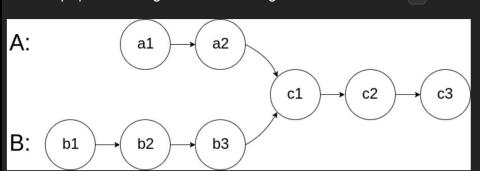
We will start session
from 9:06 PM

160. Intersection of Two Linked Lists

Solved ⊗

Given the heads of two singly linked-lists headA and headB, return the node at which the two lists intersect. If the two linked lists have no intersection at all, return null.

For example, the following two linked lists begin to intersect at node c1:

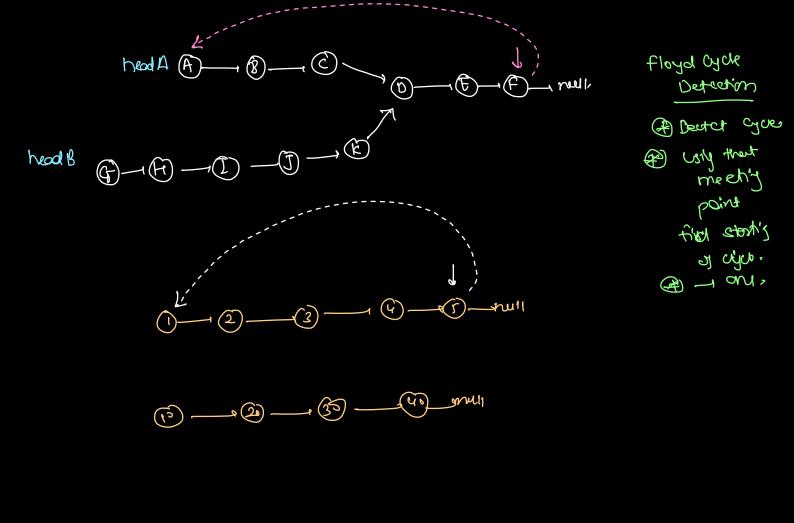


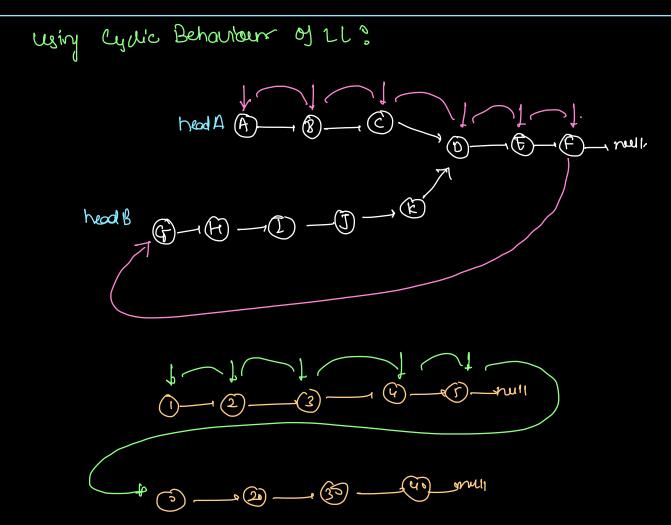
The test cases are generated such that there are no cycles anywhere in the entire linked structure.

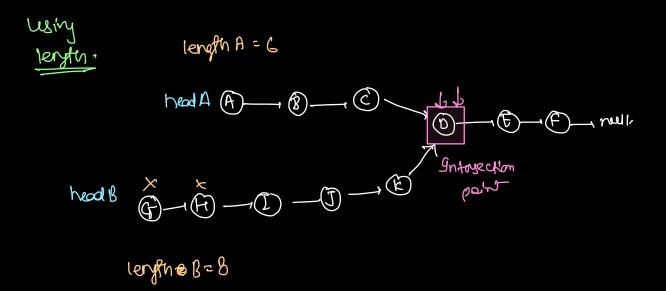
Note that the linked lists must retain their original structure after the function returns.

9nsight

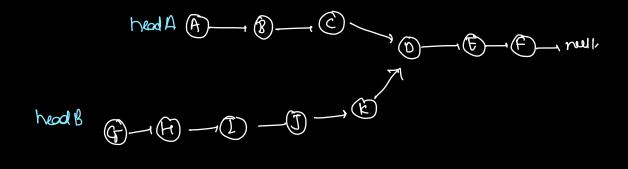
Explanation.







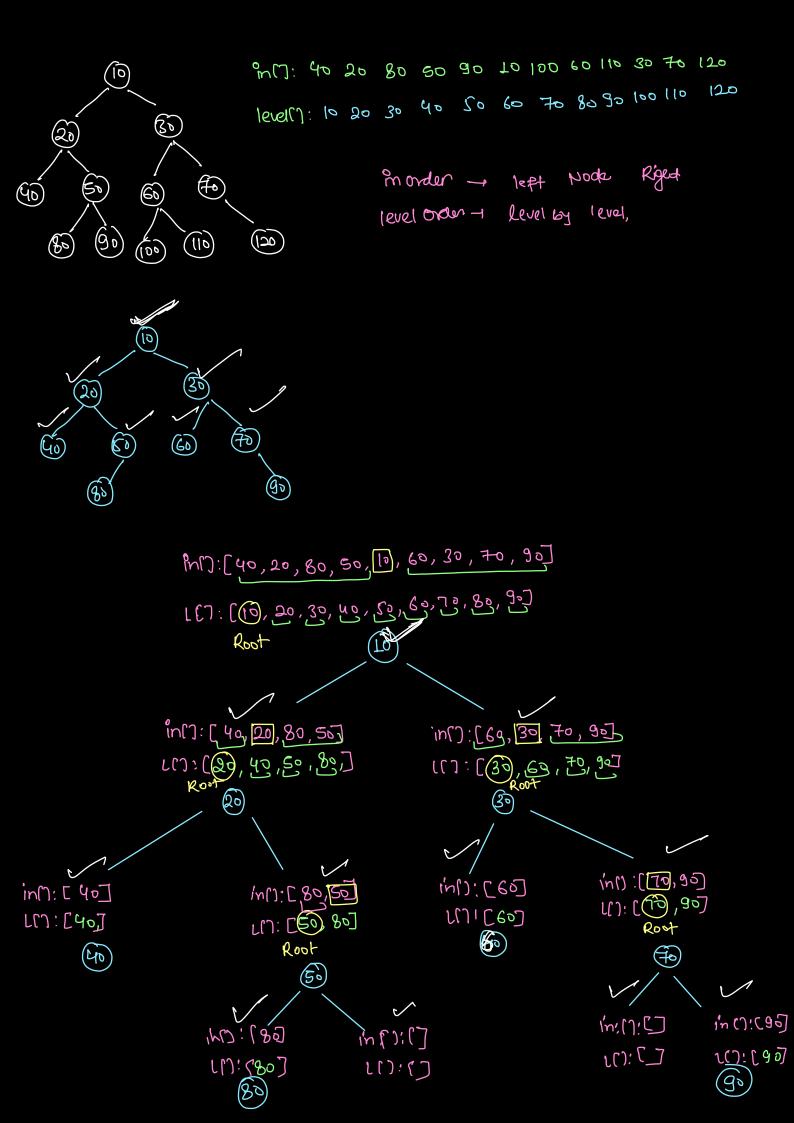
using HashSet-



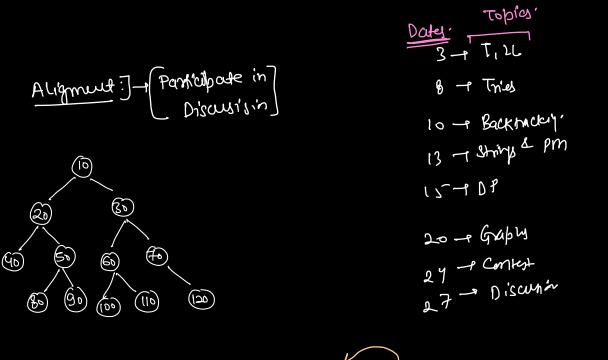
fill All nods of head A in set.

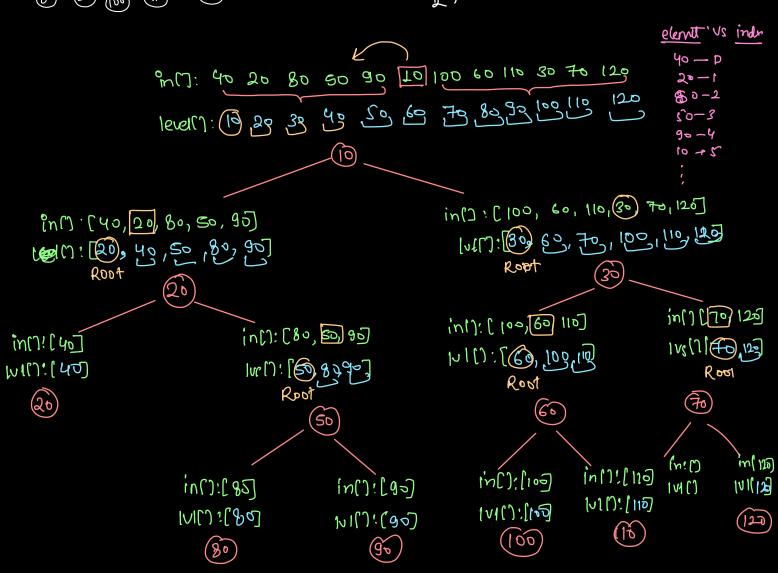
Stone from hood B, and insurt nods in Hashier,

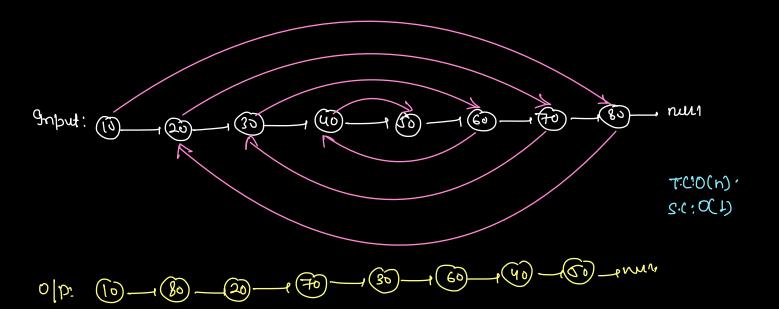
if wheady out that many it is intersention node.



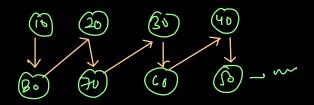
ent: 40 20 80 50 90 10 100 60 110 30 70 120







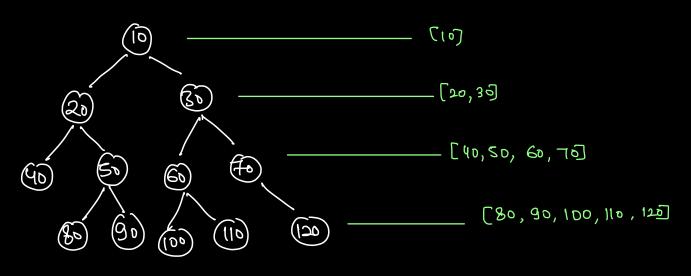




R split LL in two parts.

* Reverse second part

& Alter hate linkeye.



10:18-10:28 Pm

124. Binary Tree Maximum Path Sum

Hard D To

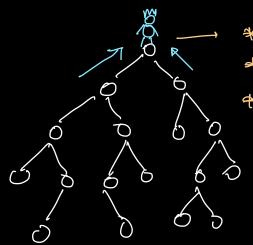
♥ Topics

Companies

A **path** in a binary tree is a sequence of nodes where each pair of adjacent nodes in the sequence has an edge connecting them. A node can only appear in the sequence **at most once**. Note that the path does not need to pass through the root.

The path sum of a path is the sum of the node's values in the path.

Given the root of a binary tree, return the maximum path sum of any non-empty path.



of any com be there in left subtrove

of an com " 1, " niged Subtree

or any is moving through Root

Expectación from left subtrece & Right S

* max sum from node to kort puth.

Diameter of tree.

owall als' form the Rost

Roof - Prepare our alluar with is

passiy trrough Roust

left flodus 2 Root puth + Right Node 2 Root puth

+ node valo;

2V

left Subtre ons.

No

Right subtre as.

Redum-

ov evall



(A) int node To node Sum_left = Solve (root. right);
(B) int node To node Sum-Right = Solve (root. right);

max_= max(A), (B) + node valer

