Graph Concepts









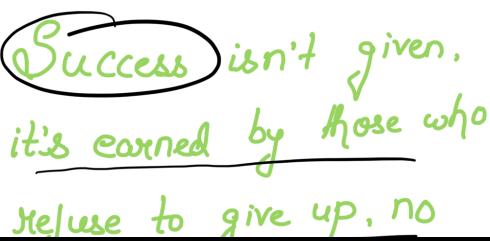
Facebook - - - Code storywith MIK

(Twitter) + CS with MIK

codestorywith MIK - -



(V)otivation:-





MIK.

matter the obstacles in their way...

3203. Find Minimum Diameter After Merging Two Trees

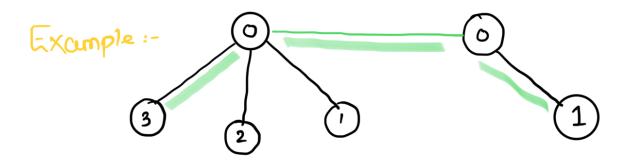
Hard ♥ Topics ♠ Companies ♥ Hint

There exist two **undirected** trees with n and m nodes, numbered from 0 to n-1 and from 0 to m-1, respectively. You are given two 2D integer arrays edges1 and edges2 of lengths n-1 and m-1, respectively, where edges1[i] = [a_i, b_i] indicates that there is an edge between nodes a_i and b_i in the first tree and edges2[i] = [u_i, v_i] indicates that there is an edge between nodes u_i and v_i in the second tree.

You must connect one node from the first tree with another node from the second tree with an edge.

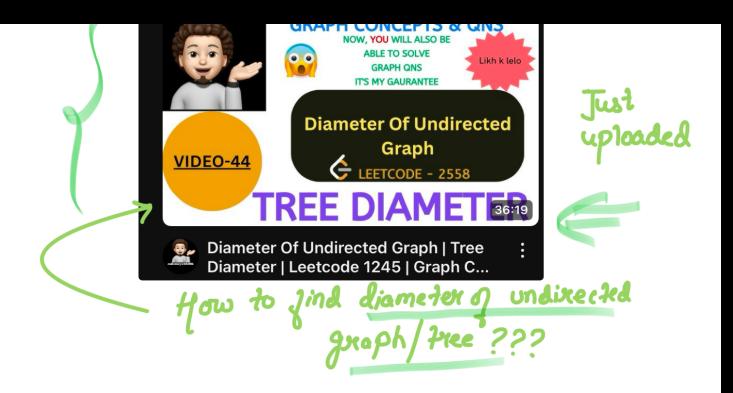
Return the **minimum** possible **diameter** of the resulting tree.

The **diameter** of a tree is the length of the *longest* path between any two nodes in the tree.

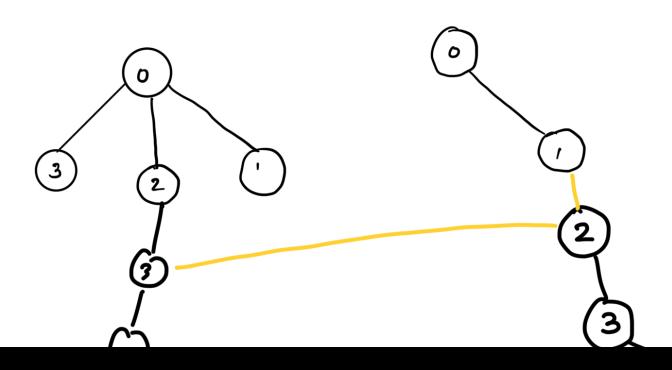


Output :- 3

video link in the Description below...



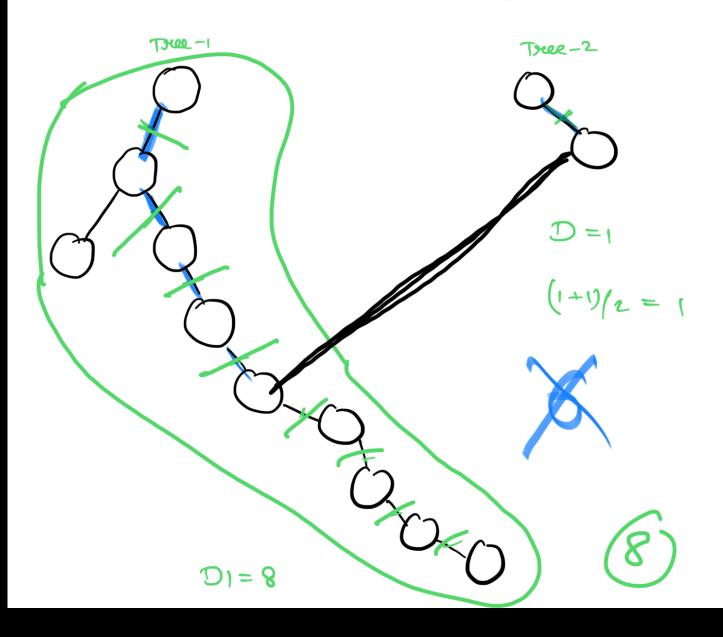
hought Process



Try to choose nodes that divides the diameters of Tree! & Treez. D1 = 5 (5+1)/2=3

$$(211)/2 + (221)/2 + (231$$

Corner Case



$$(8+1)/2$$

$$\frac{(D_{1+1})/2 + (D_{2}+1)/2 + 1}{D_{1}}$$

D2

Video-44.

