Hash Map/Set

video - 8 ←

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Leetcode
-1743

Medium

Restore the Array From Adjacent Pairs.

Winners Announcement :-

- ↳ @devkumar9889
- ↳ @yashvardhanmalve7252

Amazon Voucher

email ???

Company :- Will update soon...

1743. Restore the Array From Adjacent Pairs

Hint

Medium 1.1K 35

Companies

nums = {_, _, _, _}

There is an integer array `nums` that consists of `n` **unique** elements, but you have forgotten it. However, you do remember every pair of adjacent elements in `nums`.

You are given a 2D integer array `adjacentPairs` of size `n - 1` where each `adjacentPairs[i] = [ui, vi]` indicates that the elements `ui` and `vi` are adjacent in `nums`.

[2, 6]

It is guaranteed that every adjacent pair of elements `nums[i]` and `nums[i+1]` will exist in `adjacentPairs`, either as `[nums[i], nums[i+1]]` or `[nums[i+1], nums[i]]`. The pairs can appear **in any order**.

Return *the original array* `nums`. *If there are multiple solutions, return* ***any of them***.

Examples ⇒ adjacentPairs = {{2,1}, {3,4}, {3,2}}

Output = {1, 2, 3, 4} ⇐

= {4, 3, 2, 1}

Intution :-

adjacentPairs = {{2,1}, {3,4}, {3,2}}

Output = {1, 2, 3, 4}
{4, 3, 2, 1}

adj

T.C: O(n)

1 — 2 — 3 — 4

4 — 3 — 2 — 1

map (adj) O(n)

2	~~{1,3}~~
1	2
3	~~{2,4}~~
4	3

DFS / BFS.

Tension free (1 neighbor).

1. Adj
2. startpoint → 1 neighbor.
3. DFS.