

# Hash Map/Set



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## Restore the Array From Adjacent Pairs.

Winners Announcement :-



👤 → @devkumar9889

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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  $\Rightarrow$  `adjacentPairs` =  $\{ \{2, 1\}, \{3, 4\}, \{3, 2\} \}$

Output =  $\{ \{1, 2\}, \{2, 3\}, \{3, 4\} \}$   $\Leftarrow$

=  $\{ \{4, 3\}, \{3, 2\}, \{2, 1\} \}$

# Intuition :-

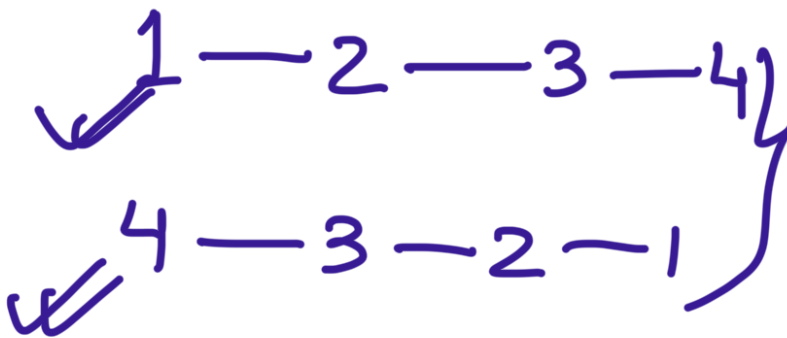
adjacentPairs = { {2,1}, {3,4}, {3,2} }

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

adj



T.C: O(n)




map (adj)  $\downarrow O(n)$

|          |                    |
|----------|--------------------|
| 2        | <del>{2,3}</del> ← |
| <u>1</u> | <u>2</u> ←         |
| 3        | <del>{2,4}</del>   |
| 4        | 3 ←                |

↑

DFS/BFS

Tension free (1 neighbor).

- 
- ① Adj
  - ② start point  $\rightarrow$  1 neighbor.
  - ③ DFS.

the 1990s, the number of people in the world who are undernourished has increased from 600 million to 800 million (FAO 1996).

There are a number of reasons why the world's population is becoming more undernourished. First, the world's population is growing rapidly, and the number of mouths to feed is increasing. Second, the world's food production is not keeping pace with the growing demand. Third, the world's food distribution is becoming more unequal, with the rich countries consuming more food than the poor countries.

There are a number of ways in which the world's food production can be increased. First, more land can be brought into cultivation. Second, more efficient farming techniques can be used. Third, more food can be produced from the same amount of land by using fertilizers and pesticides.

There are a number of ways in which the world's food distribution can be made more equal. First, the rich countries can donate more food to the poor countries. Second, the rich countries can provide more financial aid to the poor countries to help them develop their own food production. Third, the rich countries can provide more technical assistance to the poor countries to help them improve their farming techniques.

There are a number of ways in which the world's food production can be made more sustainable. First, more land can be protected from deforestation. Second, more water can be conserved. Third, more food can be produced from the same amount of land by using organic fertilizers and pesticides.

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