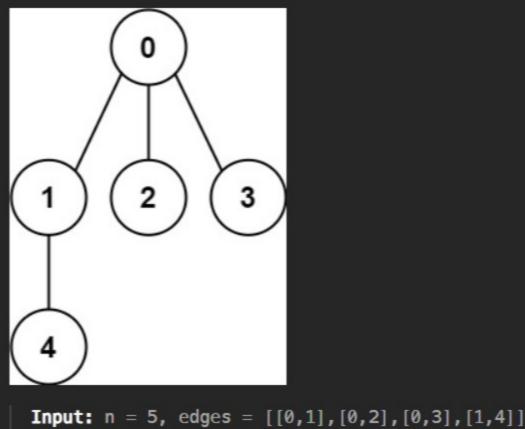
261. Graph Valid Tree Premium **€** Companies Medium ♥ Topics You have a graph of n nodes labeled from \emptyset to n-1. You are given an integer n and a list nodes a_i and b_i in the graph.

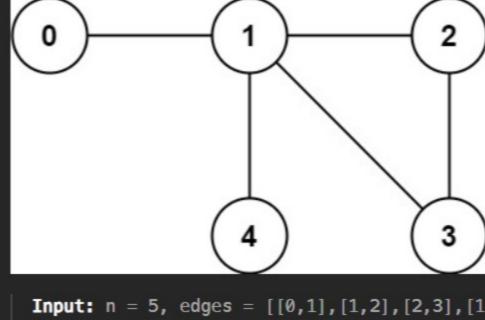
of edges where edges $[i] = [a_i, b_i]$ indicates that there is an undirected edge between

Return true if the edges of the given graph make up a valid tree, and false otherwise.

Example 1:



Output: true Example 2:



Output: false

1 <= n <= 2000

Constraints:

- 0 <= edges.length <= 5000
- 0 <= a_i, b_i < n

edges[i].length == 2

 $a_i != b_i$

No

Depth-First Search

Topics

Hint 1

Hint 2

Q

There are no self-loops or repeated edges.

Yes Accepted 435K Submissions 894K Acceptance Rate 48.7%

Breadth-First Search

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Union Find

Graph

Given n = 5 and edges = [[0, 1], [1, 2], [3, 4]], what should your return? Is this case a valid tree?

According to the definition of tree on Wikipedia: "a tree is an undirected graph in which any two vertices are connected by exactly one path. In other words, any connected graph without simple cycles is a tree."

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Discussion (20)