1466. Reorder Routes to Make All Paths Lead to the City Zero

Medium Topics Companies Hint

There are `n` cities numbered from `0` to `n - 1` and `n - 1` roads such that there is only one way to travel between two different cities (this

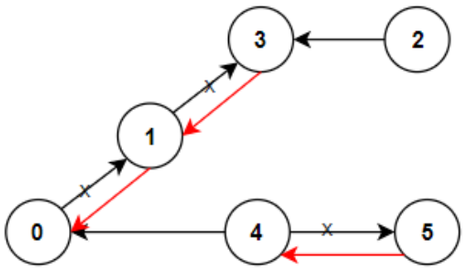
Roads are represented by `connections` where `connections[i] = [a_i, b_i]` represents a road from city `a_i` to city `b_i`.

This year, there will be a big event in the capital (city `0`), and many people want to travel to this city.

Your task consists of reorienting some roads such that each city can visit the city `0`. Return the **minimum** number of edges changed.

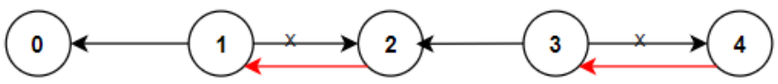
It's **guaranteed** that each city can reach city `0` after reorder.

Example 1:




```
Input: n = 6, connections = [[0,1],[1,3],[2,3],[4,0],[4,5]]
Output: 3
Explanation: Change the direction of edges show in red such that each node can reach the node 0 (cap
```

Example 2:




```
Input: n = 5, connections = [[1,0],[1,2],[3,2],[3,4]]
Output: 2
Explanation: Change the direction of edges show in red such that each node can reach the node 0 (cap
```

Example 3:

```
Input: n = 3, connections = [[1,0],[2,0]]
Output: 0
```

Constraints:

- `2 <= n <= 5 * 10^4`
- `connections.length == n - 1`
- `connections[i].length == 2`
- `0 <= a_i, b_i <= n - 1`
- `a_i != b_i`

Seen this question in a real interview before? 1/4

Yes No

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Topics