## 1129. Shortest Path with **Alternating Colors**

Hint

Medium









Companies

You are given an integer n, the number of nodes in a directed graph where the nodes are labeled from 0 to n - 1. Each edge is red or blue in this graph, and there could be self-edges and parallel edges.

You are given two arrays redEdges and blueEdges where:

- redEdges[i] = [a<sub>i</sub>, b<sub>i</sub>] indicates that there is a directed red edge from node a<sub>i</sub> to node b<sub>i</sub> in the graph, and
- blueEdges[j] =  $[u_i, v_i]$  indicates that there is a directed blue edge from node  $u_i$  to node  $v_i$  in the graph.

Return an array answer of length n, where each answer[x] is the length of the shortest path from node 0 to node x such that the edge colors alternate along the path, or -1 if such a path does not exist.

## Example 1:

```
Input: n = 3, redEdges = [[0,1],[1,2]], blueEdges = []
Output: [0,1,-1]
```

## Example 2:

```
Input: n = 3, redEdges = [[0,1]], blueEdges = [[2,1]]
Output: [0,1,-1]
```

## **Constraints:**

- 1 <= n <= 100
- 0 <= redEdges.length, blueEdges.length <= 400
- redEdges[i].length == blueEdges[j].length == 2
- $0 \le a_i$ ,  $b_i$ ,  $u_i$ ,  $v_i < n$

Accepted 85.9K Submissions 177.7K Acceptance Rate 48.3%