

## 2359. Find Closest Node to Given Two Nodes

Medium Topics Companies Hint

You are given a **directed** graph of n nodes numbered from 0 to n - 1, where each node has **at most one** outgoing edge.

The graph is represented with a given **0-indexed** array edges of size n, indicating that there is a directed edge from node i to node edge.

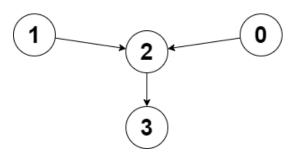
You are also given two integers node1 and node2.

88

8

Return the **index** of the node that can be reached from both node1 and node2, such that the **maximum** between the distance from node1 to Note that edges may contain cycles.

## Example 1:

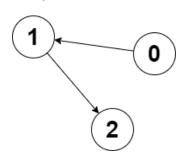


**Input:** edges = [2,2,3,-1], node1 = 0, node2 = 1

Output: 2

**Explanation:** The distance from node 0 to node 2 is 1, and the distance from node 1 to node 2 is 1. The maximum of those two distances is 1. It can be proven that we cannot get a node with a smaller n

## Example 2:



**Input:** edges = [1,2,-1], node1 = 0, node2 = 2

Output: 2

**Explanation:** The distance from node 0 to node 2 is 2, and the distance from node 2 to itself is 0. The maximum of those two distances is 2. It can be proven that we cannot get a node with a smaller  $\pi$ 

## **Constraints:**

- n == edges.length
- $2 <= n <= 10^5$
- -1 <= edges[i] < n
- edges[i] != i
- 0 <= node1, node2 < n

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

Yes No

Accepted 74.2K Submissions 162.8K Acceptance Rate 45.6%

Topics