ore(/explore/) Problems(/problemset/all/) Contest(/contest/) Discuss(/discuss/) Interview V Store V \(\Omega \) the-winner-of-an-array-game/) premium

100116. Find Champion II

My Submissions (/contest/weekly-contest-370/problems/find-champion-ii/submissions/) Back to Contest (/contest/weekly-contest-370/)

There are $\, n \,$ teams numbered from $\, 0 \,$ to $\, n \,$ – $\, 1 \,$ in a tournament; each team is also a node in a **DAG**.

You are given the integer n and a **0-indexed** 2D integer array edges of length m representing the **DAG**, where edges [i] = $[u_i, v_i]$ indicates that there is a directed edge from team u_i to team v_i in the graph.

A directed edge from a to b in the graph means that team a is **stronger** than team b and team b is **weaker** than team a.

Team $\, a \,$ will be the $\, champion \,$ of the tournament if there is no team $\, b \,$ that is $\, stronger \,$ than team $\, a \,$.

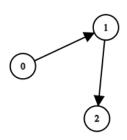
Return the team that will be the **champion** of the tournament if there is a **unique** champion, otherwise, return -1.

User Accepted:	5633
User Tried:	6399
Total Accepted:	5992
Total Submissions:	9378
Difficulty:	Medium

Notes

- A **cycle** is a series of nodes a_1 , a_2 , ..., a_n , a_{n+1} such that node a_1 is the same node as node a_{n+1} , the nodes a_1 , a_2 , ..., a_n are distinct, and there is a directed edge from the node a_i to node a_{i+1} for every i in the range [1, n].
- A **DAG** is a directed graph that does not have any **cycle**.

Example 1:

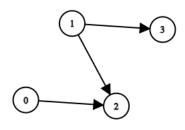


Input: n = 3, edges = [[0,1],[1,2]]

Output: 0

Explanation: Team 1 is weaker than team 0. Team 2 is weaker than team 1. So the champion is team 0.

Example 2:



Input: n = 4, edges = [[0,2],[1,3],[1,2]]

Output: -1

Explanation: Team 2 is weaker than team 0 and team 1. Team 3 is weaker than team 1. But team 1 and team 0 are not weaker than a

Constraints:

```
1 <= n <= 100</li>
m == edges.length
0 <= m <= n * (n - 1) / 2</li>
edges[i].length == 2
0 <= edge[i][j] <= n - 1</li>
edges[i][0] != edges[i][1]
```

- The input is generated such that if team a is stronger than team b, team b is not stronger than team a.
- The input is generated such that if team a is stronger than team b and team b is stronger than team c, then team a is stronger than team c.

