

Problem 997: Find the Town Judge

Problem Information

Difficulty: Easy

Acceptance Rate: 50.32%

Paid Only: No

Tags: Array, Hash Table, Graph

Problem Description

In a town, there are n people labeled from 1 to n . There is a rumor that one of these people is secretly the town judge.

If the town judge exists, then:

1. The town judge trusts nobody.
2. Everybody (except for the town judge) trusts the town judge.
3. There is exactly one person that satisfies properties **1** and **2**.

You are given an array `trust` where `trust[i] = [ai, bi]` representing that the person labeled `ai` trusts the person labeled `bi`. If a trust relationship does not exist in `trust` array, then such a trust relationship does not exist.

Return the label of the town judge if the town judge exists and can be identified, or return `-1` otherwise.

Example 1:

Input: `n = 2, trust = [[1,2]]` **Output:** `2`

Example 2:

Input: `n = 3, trust = [[1,3],[2,3]]` **Output:** `3`

Example 3:

Input: `n = 3, trust = [[1,3],[2,3],[3,1]]` **Output:** `-1`

****Constraints:****

*`1` <= n <= 1000` *`0` <= trust.length <= 104` *`trust[i].length == 2` * All the pairs of `trust` are ****unique****. *`ai` != bi` *`1` <= ai, bi <= n`

Code Snippets

C++:

```
class Solution {
public:
    int findJudge(int n, vector<vector<int>>& trust) {

    }
};
```

Java:

```
class Solution {
    public int findJudge(int n, int[][] trust) {

    }
}
```

Python3:

```
class Solution:
    def findJudge(self, n: int, trust: List[List[int]]) -> int:
```