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997. Find the Town Judge

Solved

Easy | Topics | Companies

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] = [a_i, b_i]` representing that the person labeled `a_i` trusts the person labeled `b_i`. If a trust relationship does not exist in `trust` array, then such a trust relationship does not exist.

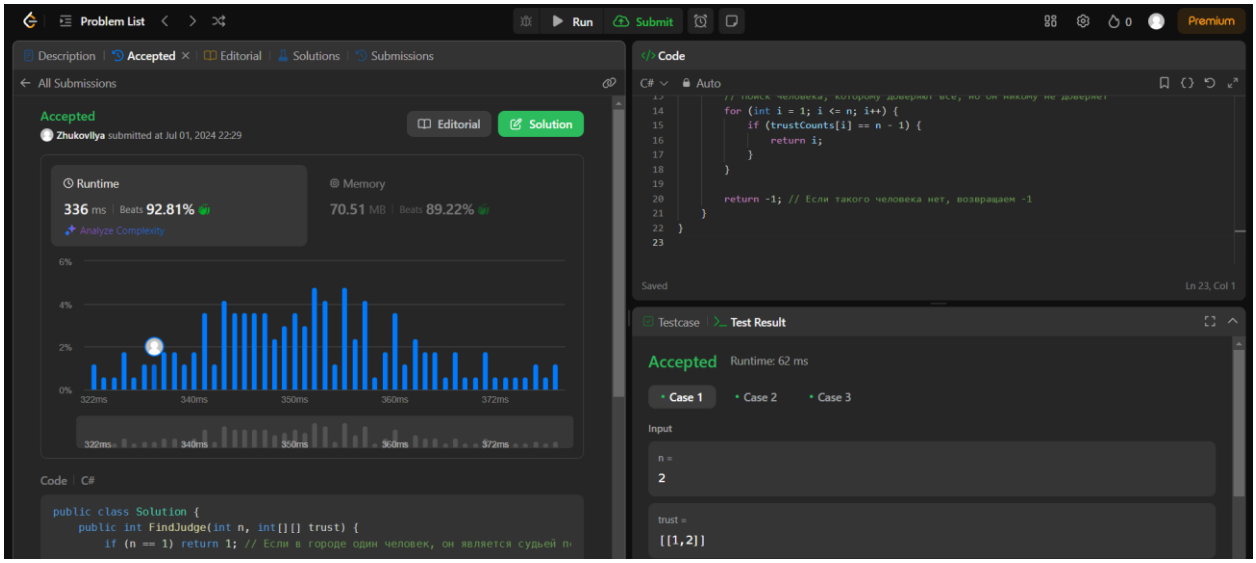
Return *the label of the town judge if the town judge exists and can be identified, or return* `-1` *otherwise.*

Example 1:

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

Example 2:

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



Код:

```
public class Solution
{
    public int FindJudge(int n, int[][] trust)
    {
        if (n == 1) return 1; // Если в городе один человек, он является судьей по
определению
```

```
        int[] trustCounts = new int[n + 1]; // Массив для подсчета доверия

        // Обрабатываем массив доверий
        foreach (var t in trust)
        {
            trustCounts[t[0]]--; // t[0] доверяет кому-то, поэтому уменьшаем счетчик
            trustCounts[t[1]]++; // t[1] получает доверие, поэтому увеличиваем
счетчик
        }

        // Поиск человека, которому доверяют все, но он никому не доверяет
        for (int i = 1; i <= n; i++)
        {
            if (trustCounts[i] == n - 1)
            {
                return i;
            }
        }

        return -1; // Если такого человека нет, возвращаем -1
    }
}
```