@LeetCode

Given a set of N people (numbered $1, 2, \ldots, N$), we would like to split everyone into two groups of **any** size.

Each person may dislike some other people, and they should not go into the same group.

Formally, if dislikes[i] = [a, b], it means it is not allowed to put the people numbered a and b into the same group.

Return true if and only if it is possible to split everyone into two groups in this way.

Example 1:

Input: N = 4, dislikes = [[1,2],[1,3],[2,4]]

Output: true

Explanation: group1 [1,4], group2 [2,3]

Example 2:

Input: N = 3, dislikes = [[1,2],[1,3],[2,3]]

Output: false

Example 3:

Input: N = 5, dislikes = [[1,2],[2,3],[3,4],[4,5],[1,5]]

Output: false

Note:

```
1. 1 <= N <= 2000
```

- 2. 0 <= dislikes.length <= 10000
- 3. 1 <= dislikes[i][j] <= N</pre>
- 4. dislikes[i][0] < dislikes[i][1]</pre>
- 5. There does not exist i != j for which dislikes[i] == dislikes[j].