886. Possible Bipartition

Medium | Topics | Companies

We want to split a group of `n` people (labeled from `1` to `n`) into two groups of **any size**. Each person may dislike some other people, and they should not go into the same group.

Given the integer `n` and the array `dislikes` where `dislikes[i] = [a_i, b_i]` indicates that the person labeled `a_i` does not like the person labeled `b_i`, return `true` *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:** The first group has [1,4], and the second group has [2,3].

Example 2:

> **Input:** n = 3, dislikes = [[1,2],[1,3],[2,3]]
> **Output:** false
> **Explanation:** We need at least 3 groups to divide them. We cannot put them in two groups.

Constraints:

- `1 <= n <= 2000`
- `0 <= dislikes.length <= 10^4`
- `dislikes[i].length == 2`
- `1 <= a_i < b_i <= n`
- All the pairs of `dislikes` are **unique**.