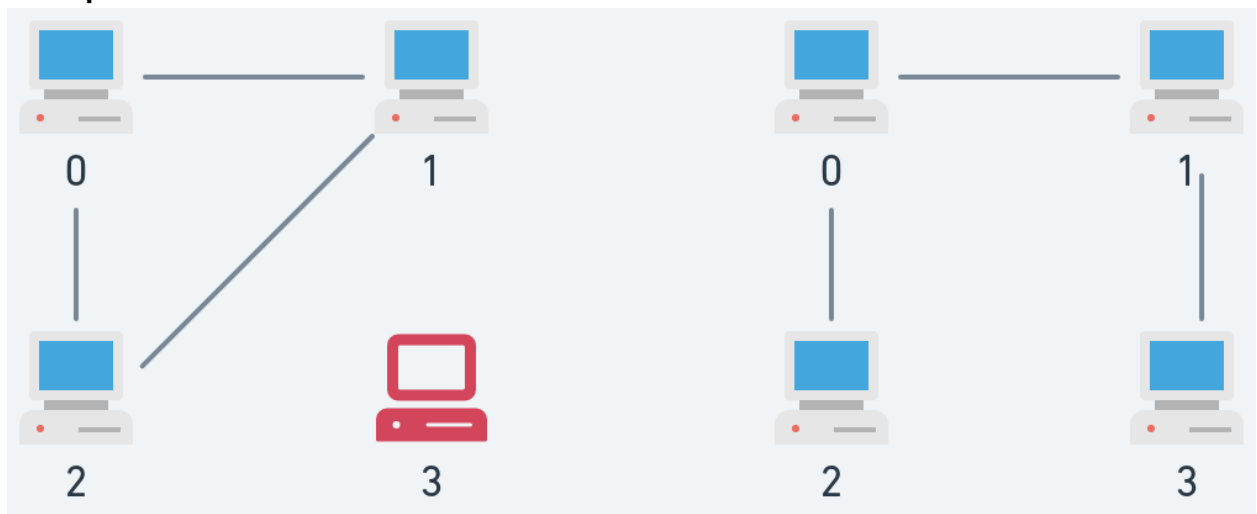


Wavelabs' Lab setup consists of n workstations numbered from 0 to $n - 1$ connected by ethernet cable `connections` forming a network where `connections[i] = [ai, bi]` represents a connection between workstations a_i and b_i . Any workstation can reach any other workstation directly or indirectly through the network.

As a Network Engineer, you are given initial computer network `connections`. You can extract certain cables between two directly connected workstations, and place them between any pair of disconnected workstations to make them directly connected.

Return *the minimum number of times you need to do this in order to make all the workstations connected*. If it is not possible, return `-1`

Example:



Input: $n = 4$, `connections = [[0,1],[0,2],[1,2]]`

Output: 1

Explanation: Remove the cable between workstations 1 and 2 and place it between workstations 1 and 3.

Constraints:

- $1 \leq n \leq 10^5$
- $1 \leq \text{connections.length} \leq \min(n * (n - 1) / 2, 10^5)$
- `connections[i].length == 2`
- $0 \leq a_i, b_i < n$
- $a_i \neq b_i$
- There are no repeated connections.
- No two workstations are connected by more than one cable.

Solve the questions in C/C++/ Go lang only No other Language