

547. Number of Provinces

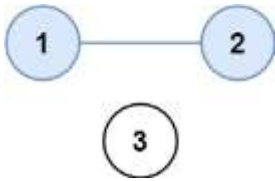
There are n cities. Some of them are connected, while some are not. If city a is connected directly with city b , and city b is connected directly with city c , then city a is connected indirectly with city c .

A province is a group of directly or indirectly connected cities and no other cities outside of the group.

You are given an $n \times n$ matrix `isConnected` where `isConnected[i][j] = 1` if the i th city and the j th city are directly connected, and `isConnected[i][j] = 0` otherwise.

Return the total number of provinces.

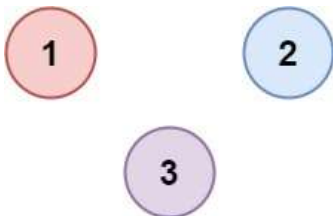
Example 1:



Input: `isConnected = [[1,1,0],[1,1,0],[0,0,1]]`

Output: 2

Example 2:



Input: `isConnected = [[1,0,0],[0,1,0],[0,0,1]]`

Output: 3

Constraints:

- $1 \leq n \leq 200$
- $n == \text{isConnected.length}$
- $n == \text{isConnected}[i].\text{length}$
- $\text{isConnected}[i][j]$ is 1 or 0.
- $\text{isConnected}[i][i] == 1$
- $\text{isConnected}[i][j] == \text{isConnected}[j][i]$