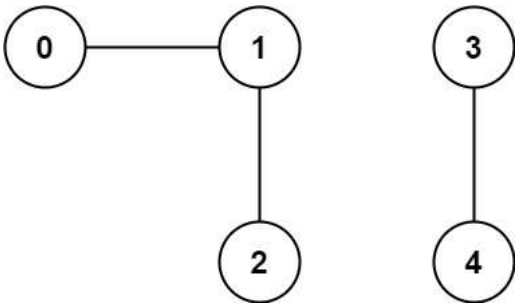
323. Number of Connected Components in an Undirected Graph

Medium 1988 65 Add to List Share

You have a graph of `n` nodes. You are given an integer `n` and an array `edges` where `edges[i] = [a_i, b_i]` indicates that there is an edge between `a_i` and `b_i` in the graph.

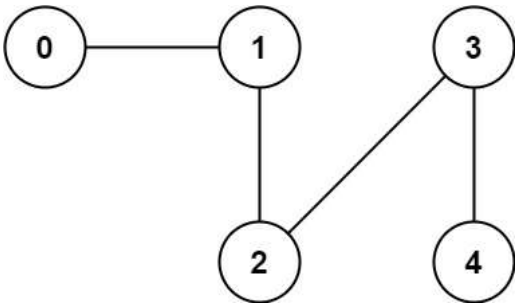
Return *the number of connected components in the graph.*

Example 1:




```
Input: n = 5, edges = [[0,1],[1,2],[3,4]]
Output: 2
```

Example 2:




```
Input: n = 5, edges = [[0,1],[1,2],[2,3],[3,4]]
Output: 1
```

Constraints:

- `1 <= n <= 2000`
- `1 <= edges.length <= 5000`
- `edges[i].length == 2`
- `0 <= a_i <= b_i < n`
- `a_i != b_i`
- There are no repeated edges.

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```
1  class Solution {
2  public:
3      int countComponents(int
   n, vector<vector<int>>&
   edges) {
4
5      }
6  };
```