

2685. Count the Number of Complete Components

Solved ●

Medium Topics Companies Hint

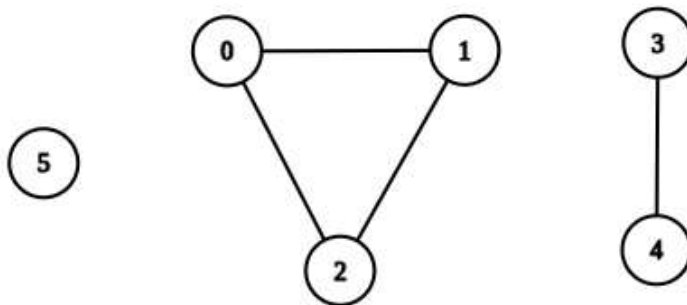
You are given an integer n . There is an **undirected** graph with n vertices, numbered from 0 to $n - 1$. You are given a 2D integer array `edges` where `edges[i] = [ai, bi]` denotes that there exists an **undirected** edge connecting vertices a_i and b_i .

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

A **connected component** is a subgraph of a graph in which there exists a path between any two vertices, and no vertex of the subgraph shares an edge with a vertex outside of the subgraph.

A connected component is said to be **complete** if there exists an edge between every pair of its vertices.

Example 1:

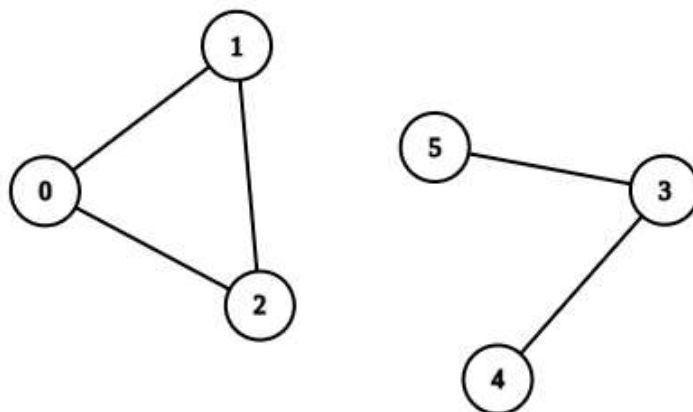


Input: $n = 6$, `edges = [[0,1],[0,2],[1,2],[3,4]]`

Output: 3

Explanation: From the picture above, one can see that all of the components of this graph are complete.

Example 2:



Input: $n = 6$, `edges = [[0,1],[0,2],[1,2],[3,4],[3,5]]`

Output: 1

Explanation: The component containing vertices 0, 1, and 2 is complete since there is an edge between every pair of two vertices. On the other hand, the component containing vertices 3, 4, and 5 is not complete since there is no edge between vertices 4 and 5. Thus, the number of complete components in this graph is 1.

Constraints:

- `1 <= n <= 50`
- `0 <= edges.length <= n * (n - 1) / 2`
- `edges[i].length == 2`
- `0 <= ai, bi <= n - 1`
- `ai != bi`
- There are no repeated edges.

Seen this question in a real interview before? 1/5

Yes No

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