

Description

Solution

Submissions

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1135. Connecting Cities With Minimum Cost

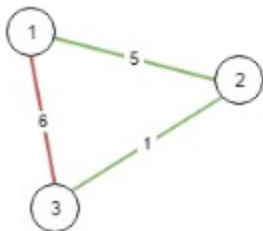
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There are `N` cities numbered from `1` to `N`.

You are given `connections`, where each `connections[i] = [city1, city2, cost]` represents the cost to connect `city1` and `city2` together. (A connection between `city1` and `city2` is the same as connecting `city2` and `city1`.)

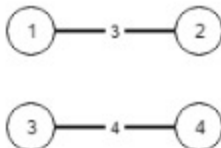
Return the minimum cost so that for every pair of cities, there exists a path of connections (possibly of length 1) that connects those two cities together. If the task is impossible, return `-1`.

Example 1:



Input: `N = 3, connections = [[1,2,5],[1,3,6],[2,3,1]]`
Output: `6`
Explanation:
Choosing any 2 edges will connect all cities so we choose the minimum 2.

Example 2:



Input: `N = 4, connections = [[1,2,3],[3,4,4]]`
Output: `-1`
Explanation:
There is no way to connect all cities even if all edges are used.

Note:

- `1 <= N <= 10000`
- `1 <= connections.length <= 10000`
- `1 <= connections[i][0], connections[i][1] <= N`
- `0 <= connections[i][2] <= 10^5`
- `connections[i][0] != connections[i][1]`

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