1135. Connecting Cities With Minimum Cost

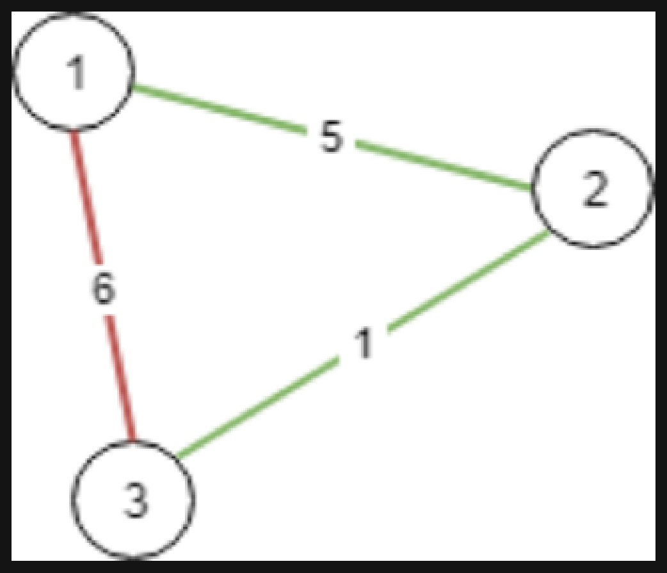
Description

There are `n` cities labeled from `1` to `n`. You are given the integer `n` and an array `connections` where $\texttt{connections[i]} = [x_i, y_i, cost_i]$ indicates that the cost of connecting city x_i and city y_i (bidirectional connection) is $cost_i$.

Return *the minimum* ***cost*** *to connect all the* `n` *cities such that there is at least one path between each pair of cities*. If it is impossible to connect all the `n` cities, return `-1`,

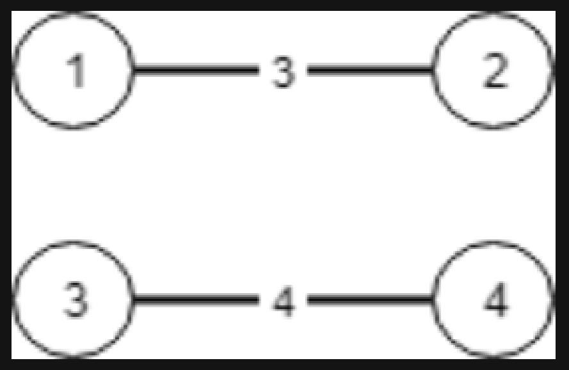
The **cost** is the sum of the connections' costs used.

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.
```

Constraints:

- $1 <= n <= 10^4$
- $1 <= \texttt{connections.length} <= 10^4$
- `connections[i].length == 3`
- $1 <= x_i, y_i <= n$
- $x_i != y_i$
- $0 <= cost_i <= 10^5$