

2477. Minimum Fuel Cost to Report to the Capital

Medium	Topics	Companies	Hint

There is a tree (i.e., a connected, undirected graph with no cycles) structure country network consisting of n cities numbered from 0 to n

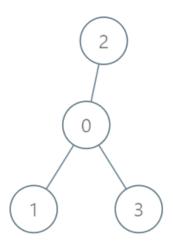
There is a meeting for the representatives of each city. The meeting is in the capital city.

There is a car in each city. You are given an integer seats that indicates the number of seats in each car.

A representative can use the car in their city to travel or change the car and ride with another representative. The cost of traveling between

Return the minimum number of liters of fuel to reach the capital city.

Example 1:



Input: roads = [[0,1],[0,2],[0,3]], seats = 5

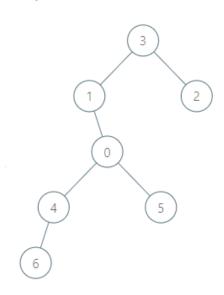
Output: 3
Explanation:

- Representative₁ goes directly to the capital with 1 liter of fuel.
- Representative₂ goes directly to the capital with 1 liter of fuel.

It costs 3 liters of fuel at minimum.

It can be proven that 3 is the minimum number of liters of fuel needed.

Example 2:



Input: roads = [[3,1],[3,2],[1,0],[0,4],[0,5],[4,6]], seats = 2

Output: 7
Explanation:

- Representative₂ goes directly to city 3 with 1 liter of fuel.
- Representative, and representative, go together to city 1 with 1 liter of fuel.