



"let's make it easy too

you have tried my Graph Concepts & One Playlist. these Ons, will seem very easy.

Do try it once is



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2959. Number of Possible Sets of Closing Branches

Hint













There is a company with n branches across the country, some of which are connected by roads. Initially, all branches are reachable from each other by traveling some roads.

The company has realized that they are spending an excessive amount of time traveling between their branches.

As a result, they have decided to close down some of these branches (**possibly none**). However, they want to ensure that the remaining branches have a distance of at most maxDistance from each other.

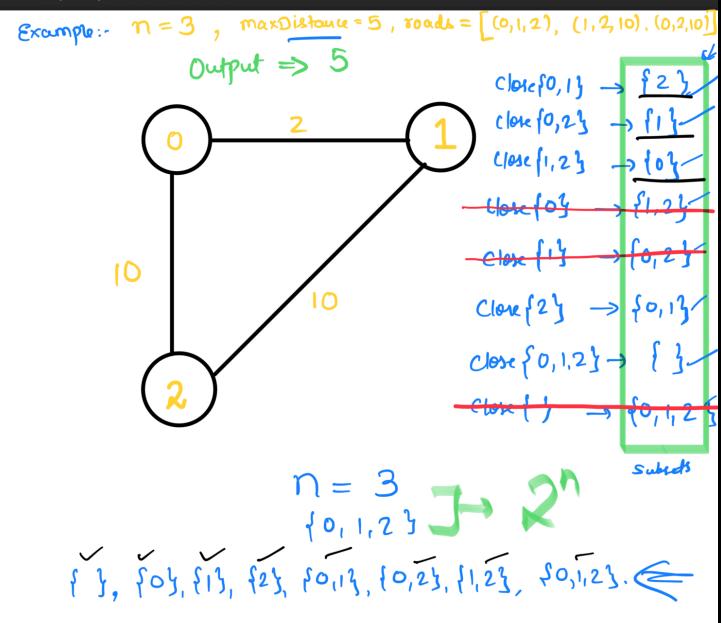
The **distance** between two branches is the **minimum** total traveled length needed to reach one branch from another.

You are given integers n, maxDistance, and a **0-indexed** 2D array roads, where roads[i] = [u_i, v_i, w_i] represents the **undirected** road between branches u_i and v_i with length w_i .

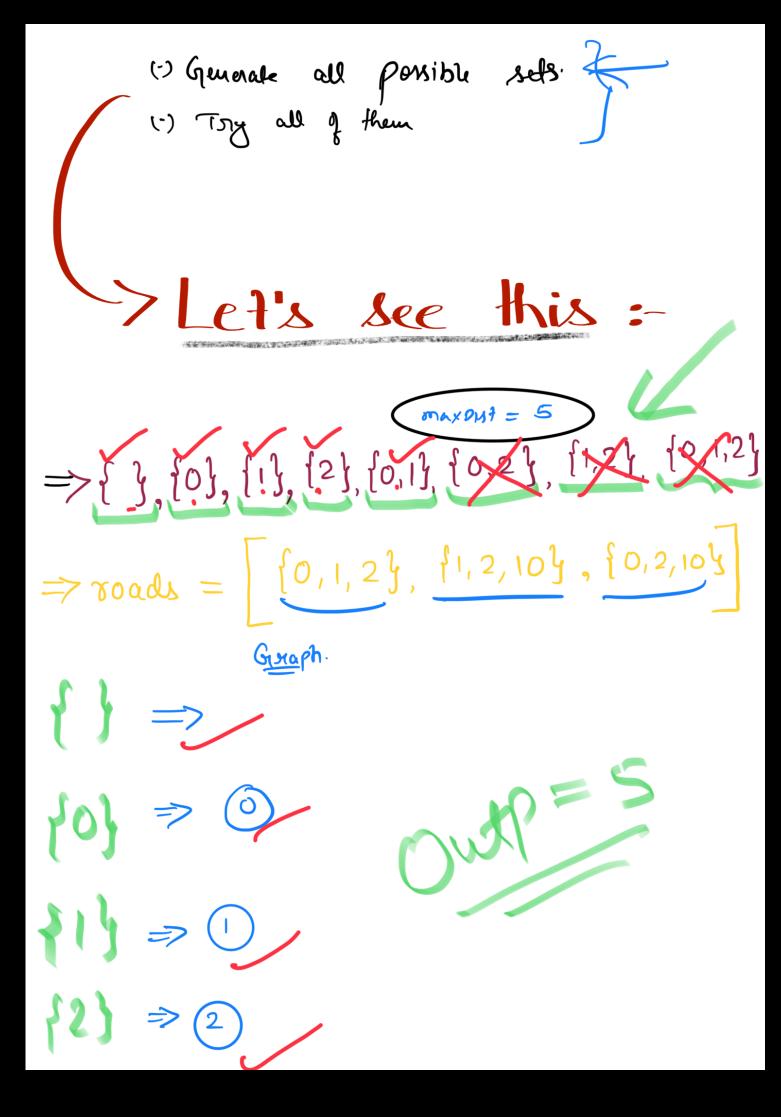
Return the number of possible sets of closing branches, so that any branch has a distance of at most maxDistance from any other.

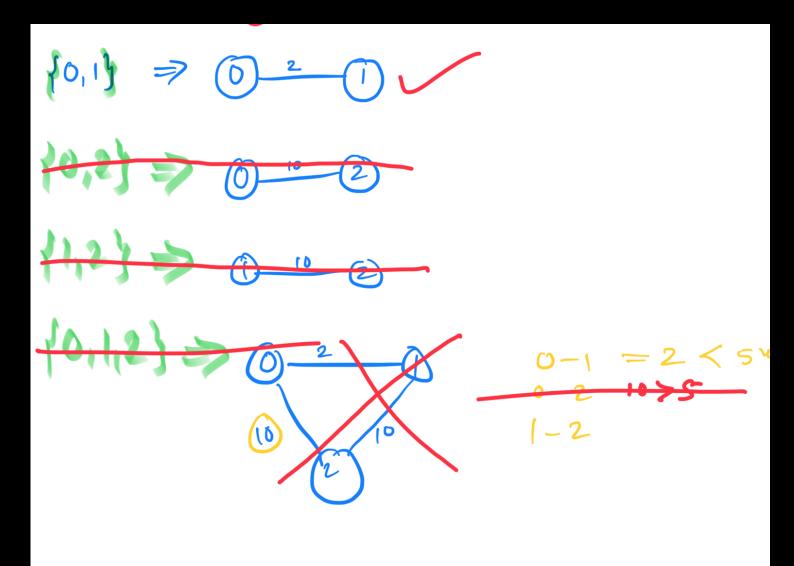
Note that, after closing a branch, the company will no longer have access to any roads connected to it.

Note that, multiple roads are allowed.



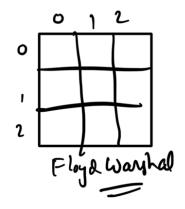
What can be the easiest approach that can come to mind ???





Some tips to improve :-

20}



// Shortest distance from any // node to any other node