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For the undirected case, I run the algorithm of finding the maximum spanning tree. Then the remaining edges are to be deleted. For the directed case, I first treat it as an undirected case. Among the edges to be deleted, if an edge with positive weight will not form a loop if I put it back to the graph, I put it back to the graph. The process is performed in a decreasing weight priority, that is I would greedily put the edges with larger weight back into the graph if possible. And I used an array of vector to construct the adjacent list, which helps me run a DFS to check if there is a cycle.