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332. Reconstruct Itinerary

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Given a list of airline tickets represented by pairs of departure and arrival airports [from, to], reconstruct the itinerary in order. All of the tickets belong to a man who departs from JFK. Thus, the itinerary must begin with JFK.

Note:

- 1. If there are multiple valid itineraries, you should return the itinerary that has the smallest lexical order when read as a single string. For example, the itinerary ["JFK", "LGA"] has a smaller lexical order than ["JFK", "LGB"].
- 2. All airports are represented by three capital letters (IATA code).
- 3. You may assume all tickets form at least one valid itinerary.

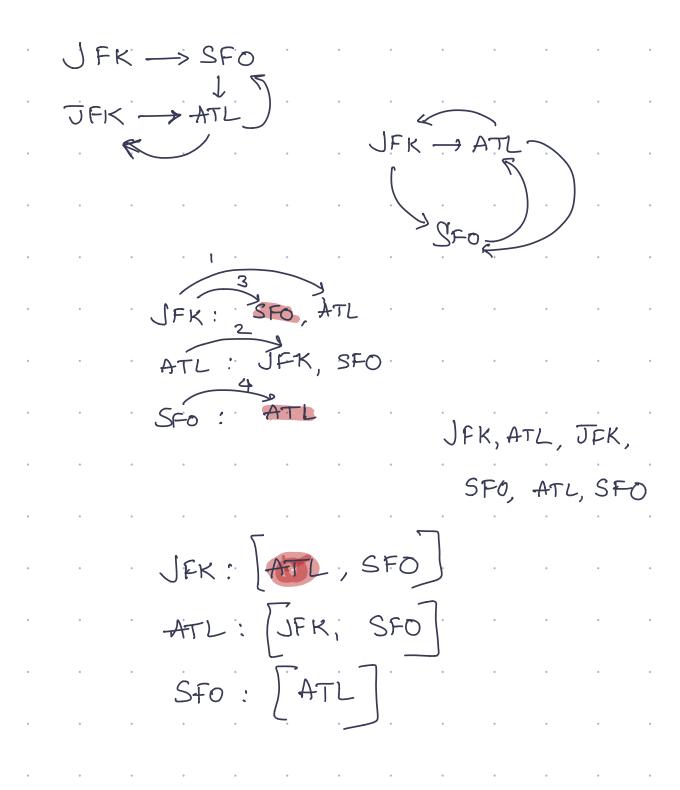
Example 1:

Input: [["MUC", "LHR"], ["JFK", "MUC"], ["SFO", "SJC"], ["LHR", "SF0"]] Output: ["JFK", "MUC", "LHR", "SF0", "SJC"]

Example 2:

Input: [["JFK","SF0"], ["JFK","ATL"],["SFO","ATL"], ["ATL","JFK"],["ATL","SF0"]] i C++ Autocomplete class Solution { 1 ▼ 2 public: 3 ▼ vector<string> findItinerary(vector<v</pre> tickets) { 4 5 } };

> MUC -> LHR SFO -> SJC JEK



Lulerian Bath A trail in a finte graph that visits every edge exactly once. Eulerian Cycle A trail that starts and ends at the same verter 1. Sort the airports in geverse order. JFK: [SFO, ATL] dys(JFK) -> dys(ATL) -> dys(JFK) -> dys(SFO) dfs (SFO) ← dfs

Ves = [SFO, ATL, SFO, JFK, ATL, JFR]

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