

332. Reconstruct Itinerary

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Total Accepted: 28968 Total Submissions: 102602 Difficulty: Medium Contributors: Admin

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:

tickets = [{"MUC", "LHR"}, {"JFK", "MUC"}, {"SFO", "SJC"}, {"LHR", "SFO"}]
Return ["JFK", "MUC", "LHR", "SFO", "SJC"] .

Example 2:

tickets = [{"JFK","SFO"}, {"JFK","ATL"}, {"SFO","ATL"}, {"ATL","JFK"}, {"ATL","SFO"}]
Return ["JFK", "ATL", "JFK", "SFO", "ATL", "SFO"] .
Another possible reconstruction is ["JFK", "SFO", "ATL", "JFK", "ATL", "SFO"] . But it is larger in lexical order.

Credits:

Special thanks to @dietpepsi (https://leetcode.com/discuss/user/dietpepsi) for adding this problem and creating all test cases.

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C++ ▾

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```
1 class Solution {
2 public:
3     vector<string> findItinerary(vector<pair<string, string>> tickets) {
4
5     }
6 };
```

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