Challenge 4: Trace the Complete Path of a Journey

Test your knowledge on hash table traversal with this coding exercise!

We'll cover the following

- Problem Statement
  - Input
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  - Sample Output
- Coding Exercise

Problem Statement

You have to implement the `trace_path()` function which will take in a list of source-destination pairs and return the correct sequence of the whole journey from the first city to the last.

Input

A Python `dict` containing string pairs of source-destination cities.

Output

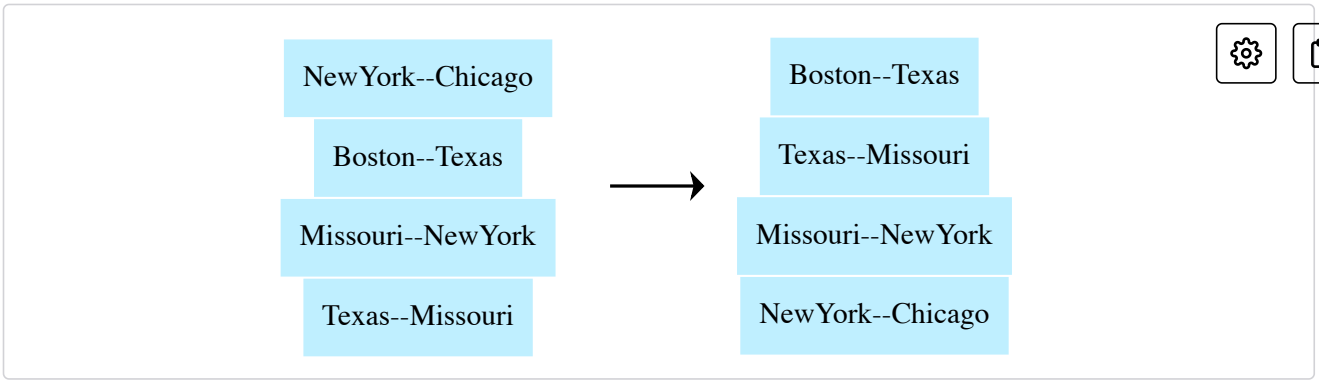
A list of source-destination pairs in the correct order.

Sample Input

```
dict = {
  "NewYork": "Chicago",
  "Boston": "Texas",
  "Missouri": "NewYork",
  "Texas": "Missouri"
}
```

Sample Output

```
[["Boston", "Texas"] , ["Texas", "Missouri"] , ["Missouri", "NewYork"] , ["NewYor
k", "Chicago"]]
```



Coding Exercise

Design a step-by-step algorithm first before jumping on to the implementation. Think about how you can model this to hash tables.

If you get stuck, you can always refer to the solution.

Good luck!

```
def trace_path(my_dict):  # A Map object
    # Write your code here
    pass

```

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Solution Review: Find Symmetric Pairs...

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Solution Review: Trace the Complete ...

Mark as Completed