


# 여행경로

# Index	43164
📅 CreatedAt	@September 28, 2022
👤 Person	 Ally Hyeseong Kim
⚙️ Status	Done
🏷️ Tags	<span>BFS/DFS</span> <span>Python</span>
📅 UpdatedAt	@September 28, 2022

## References

<https://school.programmers.co.kr/learn/courses/30/lessons/43164>

### References

#### 1. Depth First Search

## 1. Depth First Search

```
import collections

def solution(tickets):
    dest = dict()
    for ticket in tickets:
        dest[ticket[0]] = dest.get(ticket[0], []) + [ticket[1]]
    for key in dest:
        dest[key] = collections.deque(sorted(dest[key], reverse=True))
    def search(cur, answer):
        if len(answer) == len(tickets) + 1:
            return answer
        if not dest.get(cur, []):
            return answer[:-1]

        for _ in range(len(dest[cur])):
            d = dest[cur].pop()
            answer = search(d, answer + [d])
            if len(answer) == len(tickets) + 1:
                return answer
        dest[cur].appendleft(d)
```

```
return answer[: -1]

return search("ICN", ["ICN"])
```