


# 순위

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## References

<https://school.programmers.co.kr/learn/courses/30/lessons/49191>

### References

#### 1. Python Dictionary

## 1. Python Dictionary

```
def solution(n, results):
    win = dict()
    lose = dict()
    for r in results:
        win[r[0]] = win.get(r[0], set()) | set([r[1]])
        lose[r[1]] = lose.get(r[1], set()) | set([r[0]])

    for key in win:
        losers = list(win[key])
        for l in losers:
            for ll in win.get(l, set()):
                lose[ll] = lose.get(ll, set()) | set([key])
            win[key] = win[key] | win.get(l, set())
    for key in lose:
        winners = list(lose[key])
        for l in winners:
            for ww in lose.get(l, set()):
                win[ww] = win.get(ww, set()) | set([key])
            lose[key] = lose[key] | lose.get(l, set())

    result = 0
```

```
for i in range(1, n + 1):  
    if len(win.get(i, set())) + len(lose.get(i, set())) == n - 1:  
        result += 1  
return result
```