전력망을 둘로 나누기

# Index	86971
CreatedAt	@September 28, 2022
Person	A Ally Hyeseong Kim
Status	Done
Tags	Brute Force Python
UpdatedAt	@September 28, 2022

References

https://school.programmers.co.kr/learn/courses/30/lessons/86971

1. Recursion

```
def solution(n, wires):
    def graphfy(wires):
        graph = dict()
        for w in wires:
            graph[w[0]] = graph.get(w[0], []) + [w[1]]
            graph[w[1]] = graph.get(w[1], []) + [w[0]]
        return graph

    def count(node, graph, visited):
        cnt = 0
        for g in graph.get(node, []):
            if not visited[g]:
                visited[g] = True
                cnt += count(g, graph, visited)
        return cnt + 1

    result = n
    for i in range(len(wires)):
        graph = graphfy(wires[:i] + wires[i + 1:])
        visited = [False for _ in range(n + 1)]
        visited[wires[i][0]] = True
```

```
            visited[wires[i][1]] = True
            result = min(result, abs(n - 2 * count(wires[i][0], graph, visited)))
        return result
```