

```
colors = ["Red", "Blue", "Green"]
states = ["A", "B", "C", "D"]
neighbours = {
    "A": ["B", "D", "C"],
    "B": ["A", "D"],
    "D": ["B", "A", "C"],
    "C": ["A", "D"]
}
colors_of_states = {}

def promising(state, color):
    for neighbour in neighbours.get(state, []):
        if colors_of_states.get(neighbour) == color:
            return False
    return True

def get_color_for_state(state):
    for color in colors:
        if promising(state, color):
            return color

def main():
    for state in states:
        colors_of_states[state] = get_color_for_state(state)
    print(colors_of_states)

main()
```