**Backtracking + FC\_United States – Test case 2**

**A close up of a map

Description automatically generated**

source California

Assigned color-> Red

source Nevada

Assigned color-> Green

source Utah

Assigned color-> Red

source Idaho

Assigned color-> Blue

source Wyoming

Assigned color-> Green

source SouthDakota

Assigned color-> Red

source Iowa

Assigned color-> Green

source Missouri

Assigned color-> Red

source Kentucky

Assigned color-> Green

source Ohio

Assigned color-> Red

source Michigan

Assigned color-> Green

source Illinois

Assigned color-> Blue

source Wisconsin

Assigned color-> Red

source Minnesota

Assigned color-> Blue

source NorthDakota

Assigned color-> Green

source Montana

Assigned color-> Yellow

source Indiana

Assigned color-> Yellow

source WestVirginia

Assigned color-> Blue

source Virginia

Assigned color-> Red

source NorthCarolina

Assigned color-> Green

source Georgia

Assigned color-> Red

source Alabama

Assigned color-> Green

source Florida

Assigned color-> Blue

source Tennessee

Assigned color-> Blue

source Mississippi

Assigned color-> Red

source Arkansas

Assigned color-> Green

source Louisiana

Assigned color-> Blue

source Texas

Assigned color-> Red

source Oklahoma

Assigned color-> Blue

source Kansas

Assigned color-> Green

source Nebraska

Assigned color-> Blue

source Colorado

Assigned color-> Yellow

source NewMexico

Assigned color-> Green

source Arizona

Assigned color-> Blue

source SouthCarolina

Assigned color-> Blue

source Maryland

Assigned color-> Green

source Pennsylvania

Assigned color-> Yellow

source NewJersey

Assigned color-> Red

source NewYork

Assigned color-> Green

source Massachusetts

Assigned color-> Red

source NewHampshire

Assigned color-> Green

source Vermont

Assigned color-> Blue

source Maine

Assigned color-> Red

source RhodeIsland

Assigned color-> Green

source Connecticut

Assigned color-> Blue

source Delaware

Assigned color-> Blue

source Oregon

Assigned color-> Yellow

source Washington

Assigned color-> Red

source Washington

Assigned colors: {'California': 'Red', 'Nevada': 'Green', 'Utah': 'Red', 'Idaho': 'Blue', 'Wyoming': 'Green', 'SouthDakota': 'Red', 'Iowa': 'Green', 'Missouri': 'Red', 'Kentucky': 'Green', 'Ohio': 'Red', 'Michigan': 'Green', 'Illinois': 'Blue', 'Wisconsin': 'Red', 'Minnesota': 'Blue', 'NorthDakota': 'Green', 'Montana': 'Yellow', 'Indiana': 'Yellow', 'WestVirginia': 'Blue', 'Virginia': 'Red', 'NorthCarolina': 'Green', 'Georgia': 'Red', 'Alabama': 'Green', 'Florida': 'Blue', 'Tennessee': 'Blue', 'Mississippi': 'Red', 'Arkansas': 'Green', 'Louisiana': 'Blue', 'Texas': 'Red', 'Oklahoma': 'Blue', 'Kansas': 'Green', 'Nebraska': 'Blue', 'Colorado': 'Yellow', 'NewMexico': 'Green', 'Arizona': 'Blue', 'SouthCarolina': 'Blue', 'Maryland': 'Green', 'Pennsylvania': 'Yellow', 'NewJersey': 'Red', 'NewYork': 'Green', 'Massachusetts': 'Red', 'NewHampshire': 'Green', 'Vermont': 'Blue', 'Maine': 'Red', 'RhodeIsland': 'Green', 'Connecticut': 'Blue', 'Delaware': 'Blue', 'Oregon': 'Yellow', 'Washington': 'Red'}

Backtrack---> 0

State: Alabama -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Red

State: Alaska -> Red

State: Arizona -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Red

State: Arkansas -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: California -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Blue

State: Colorado -> Yellow

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: Connecticut -> Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

State: Delaware -> Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Red

State: Florida -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

State: Georgia -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: Hawaii -> Red

State: Idaho -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Red

State: Illinois -> Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Yellow

State: Indiana -> Yellow

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

State: Iowa -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: Kansas -> Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Yellow

State: Kentucky -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Blue

State: Louisiana -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

State: Maine -> Red

Assigned color to Neighbour: Green

State: Maryland -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Blue

State: Massachusetts -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: Michigan -> Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Red

State: Minnesota -> Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

State: Mississippi -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: Missouri -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: Montana -> Yellow

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

State: Nebraska -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

State: Nevada -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Red

State: NewHampshire -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Red

State: NewJersey -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Blue

State: NewMexico -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: NewYork -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: NorthCarolina -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: NorthDakota -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Yellow

State: Ohio -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

State: Oklahoma -> Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Red

State: Oregon -> Yellow

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

State: Pennsylvania -> Yellow

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

State: RhodeIsland -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

State: SouthCarolina -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

State: SouthDakota -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

State: Tennessee -> Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

State: Texas -> Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Green

State: Utah -> Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Blue

State: Vermont -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

State: Virginia -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

State: Washington -> Red

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Blue

State: WestVirginia -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Green

State: Wisconsin -> Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Yellow

State: Wyoming -> Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Yellow

Assigned color to Neighbour: Blue

Time taken: 0.09254813194274902