**Backtracking + Forward Chaining + Singleton– TC3**

State-> tasmania

State-> western australia

Assigned color-> Red

State-> northwest territories

Assigned color-> Green

State-> southern australia

Assigned color-> Blue

State-> queensland

Assigned color-> Red

State-> new south wales

Assigned color-> Green

State-> victoria

Assigned color-> Red

Backtrack-> 0

State: tasmania -> Red

State: western australia -> Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Green

State: northwest territories -> Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

State: southern australia -> Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

Assigned color to Neighbour: Green

State: queensland -> Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Green

Assigned color to Neighbour: Green

State: new south wales -> Green

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Red

Assigned color to Neighbour: Red

State: victoria -> Red

Assigned color to Neighbour: Blue

Assigned color to Neighbour: Green

Time Taken: 0.003236055374145508