Assignment 8

Course name: Data Structures

Course id: 1446/1002

Student 11: 202033762

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submission date: 2022.04.14



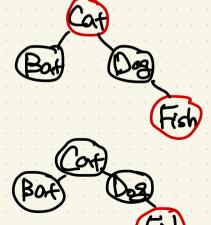
HW 8 Red-Black Tree Insert and Delete

- Insert
 - Cat Dog Bat Fish Chicken Cow Tiger Eagle Lion Snake Bird Owl Mouse
- Delete
 - Cow Snake Owl Cat Mouse Eagle Bird

- Cat Dog Bat Fish Chicken Cow Tiger Eagle Lion Snake Bird Owl Mouse
- 1. Cat) -> Cat) 4. Cat) Pouble Red

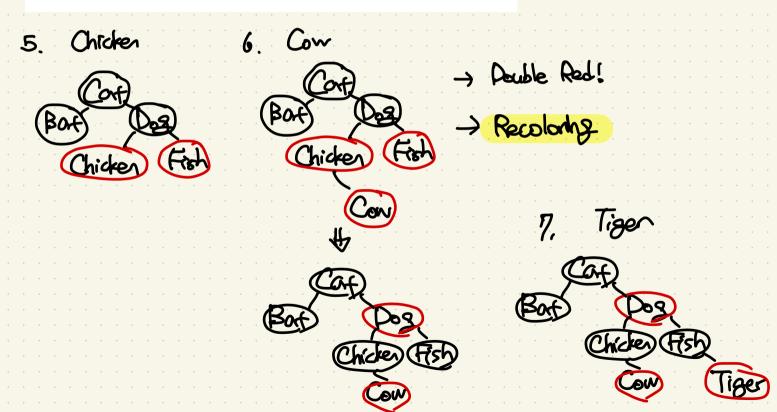
 Root property

 Fish
- 2. CAF CAF DES
- 3. Cat Dog

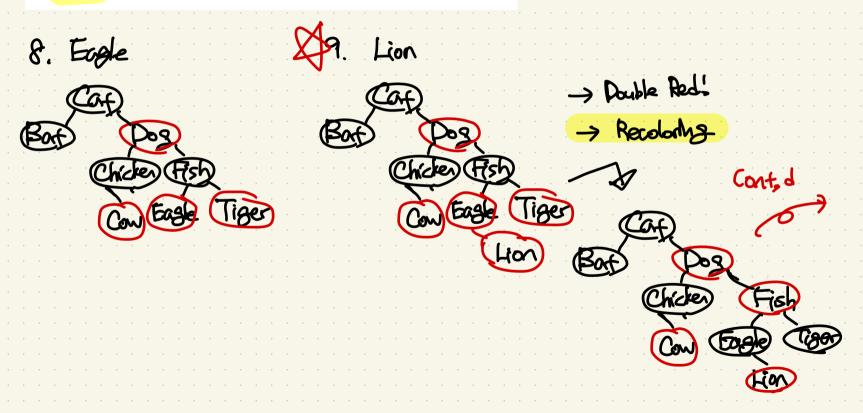


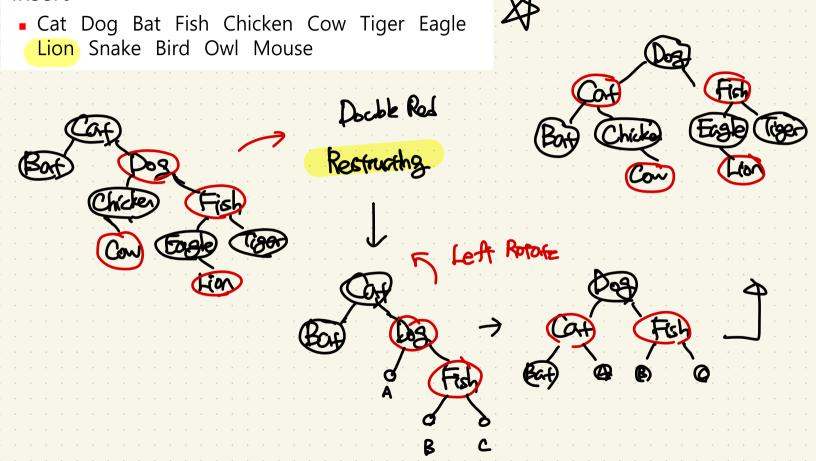
Root Property

 Cat Dog Bat Fish Chicken Cow Tiger Eagle Lion Snake Bird Owl Mouse



Cat Dog Bat Fish Chicken Cow Tiger Eagle
 Lion Snake Bird Owl Mouse

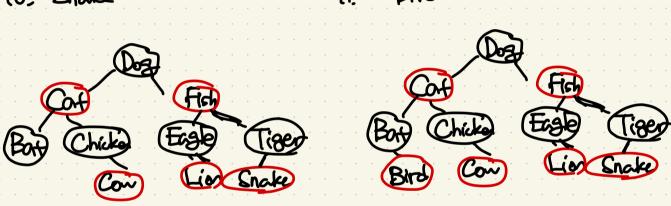




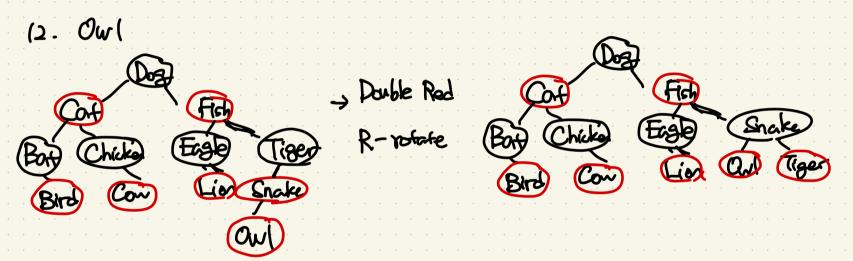
 Cat Dog Bat Fish Chicken Cow Tiger Eagle Lion Snake Bird Owl Mouse

10. Shake

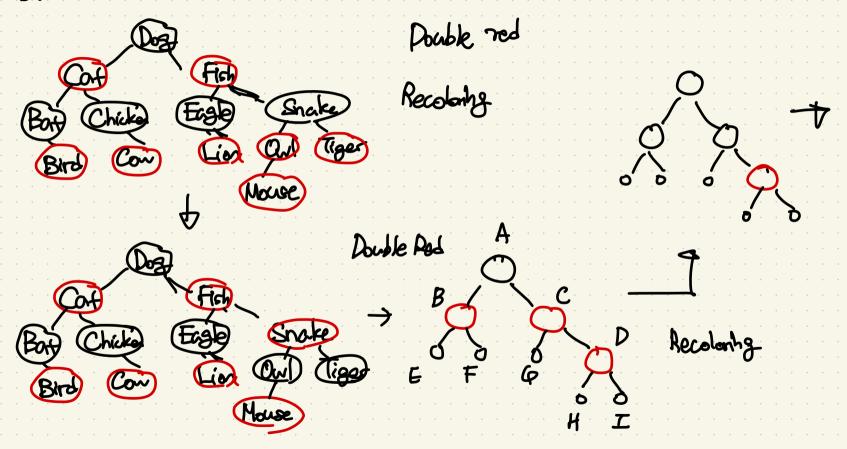
11. Bird



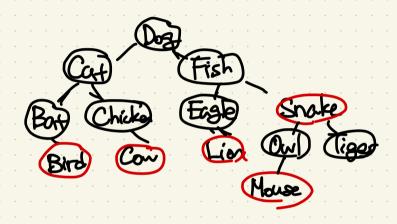
 Cat Dog Bat Fish Chicken Cow Tiger Eagle Lion Snake Bird Owl Mouse



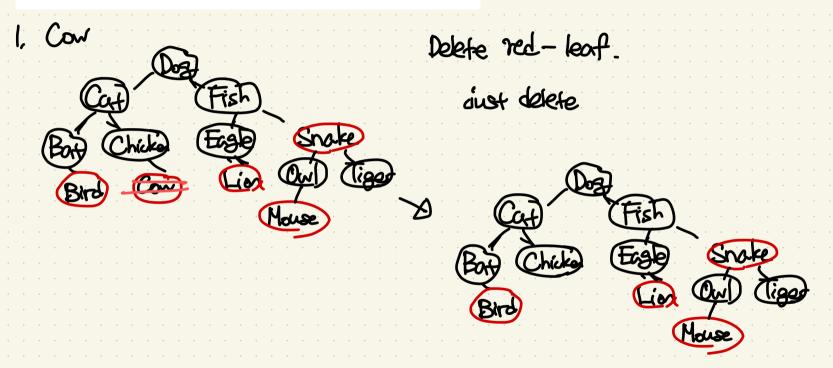
B. Mouse



Insertion Result!

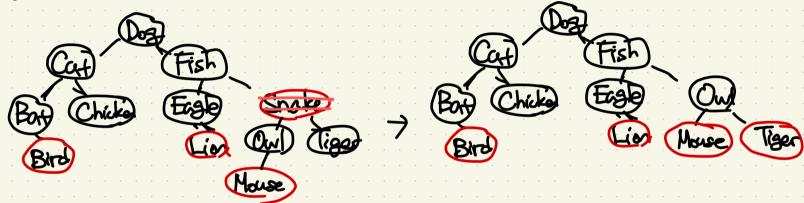


- Delete
 - Cow Snake Owl Cat Mouse Eagle Bird



- Delete
 - Cow Snake Owl Cat Mouse Eagle Bird

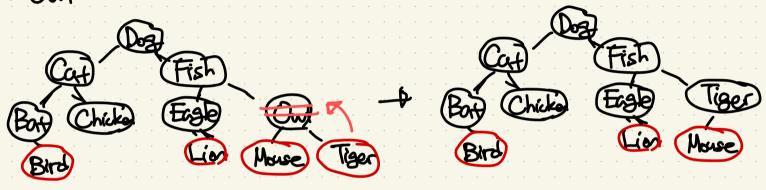
2. Snorke



_ Dolete Red - mode, non-leaf replace it with black

- Delete
 - Cow Snake Owl Cat Mouse Eagle Bird

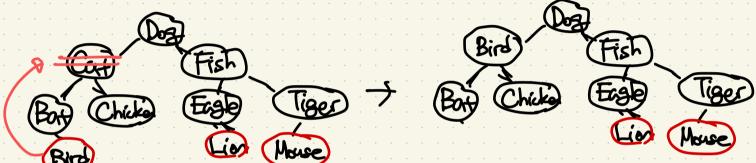
3. Owl



As Tiger is not black, no abouble black occars

- Delete
 - Cow Snake Owl Cat Mouse Eagle Bird

4. Caf

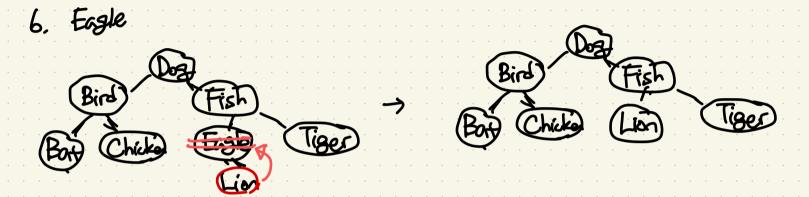


As Bird is not black, so no double black sust change the color of Bird! 5. Mouse Red-leaf node sust delete!

Bird Fish

Bird Tiser

- Delete
 - Cow Snake Owl Cat Mouse Eagle Bird



Lion is red, so just change color of Lion to black

- Delete
 - Cow Snake Owl Cat Mouse Eagle Bird

