Red Black Tree (OUTPLAY)

Bryon Tamin

NO.3. RBT

[] In Sert 100

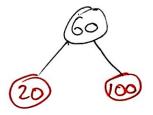
1. insert 100 at root node

- 2. because it is root node color it black.
- [2.] Insert 20.



1. insert 20 as 100 left child. because 20 a 100.

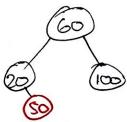
- 2. color it lef.
- 3. Insert 60



1. Insert 60 es 20's right child.

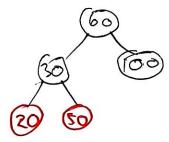
- 2. left light lotation.
- 3. recolor.

4.7 Insert 50



1. Insert 50 as 20's right (hild 2. Color 50's parent black and grandporent red. 3. 60% is a root 50 it goes black again

15] Insert 30.



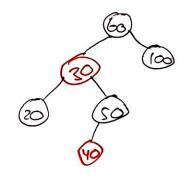
1. in sert 30 as so's left child.

2: 2 red in orow souse

3. right left rotation.

.4. recolor.

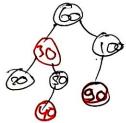
6.7 Insert 40.



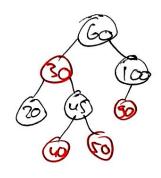
1. Inself 40 as So's left child.

2. recolor uo's parents black and grandparent red.

I Insert 90.



1. Insect 90 os 100's left Child.



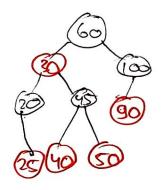
1. Insert .45 as 40 right Child.

2. red 24mes.

3. left light rotation

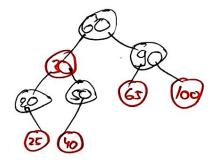
4. recolor.

9) Insert 25



1. Insert 25 as 20's right

10.) Insert 65



1-insert 65 as go's lect Child.

2. Pight Cotation.

3. recolor.