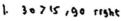
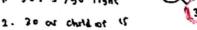
## 2) - Insert: 15

(13)

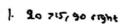
- |. No Root
- 2. See 15 as root, colorit black

## - Insert :30





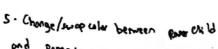
- 3. colos red.
- Insert: 20

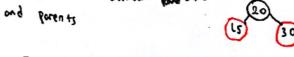




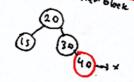
3. or the first of John color cog

4 2 conseionue red, cotale right lett





- Insert: 40
- 1. 40 720, 40730, cight child ot 30 (red)
- 2. 2 conspersing red, as perem and uncless red, color than block
- 3. Edor root black



- Insert : 10

1. 10 < 20, locis, left third of is (red

2. End.



- Delete: 30

1. Search 30 (30 is iright (klot of 20)

2. 30 = internal block node. As children: redy pop 30, connect 20 with wo

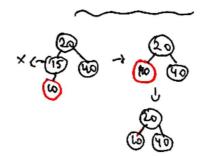
3. Color 40 with black (revolor)

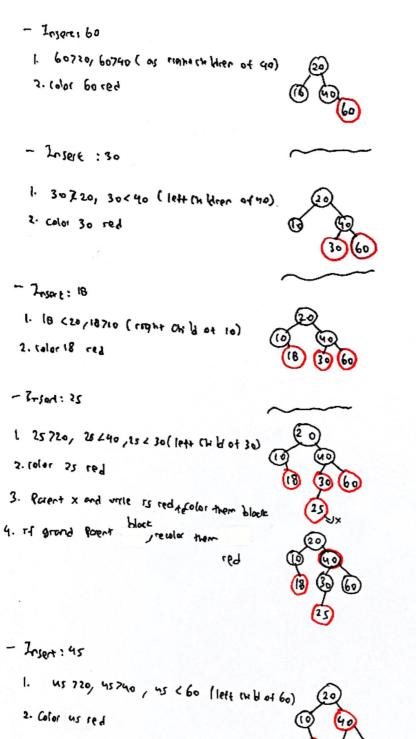


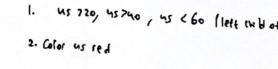


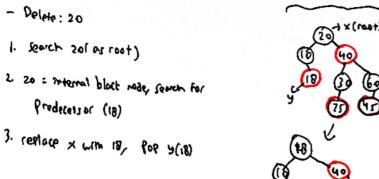
## - Delere:15

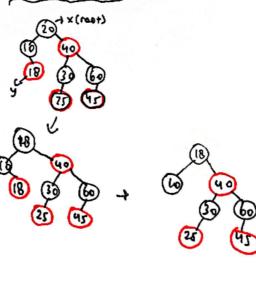
- 1. Search 15 ( left CH & of 24)
- 2. 15 = Internal block mode wimmed CK blen.
- 3. For 15, could to milk sol color to arred

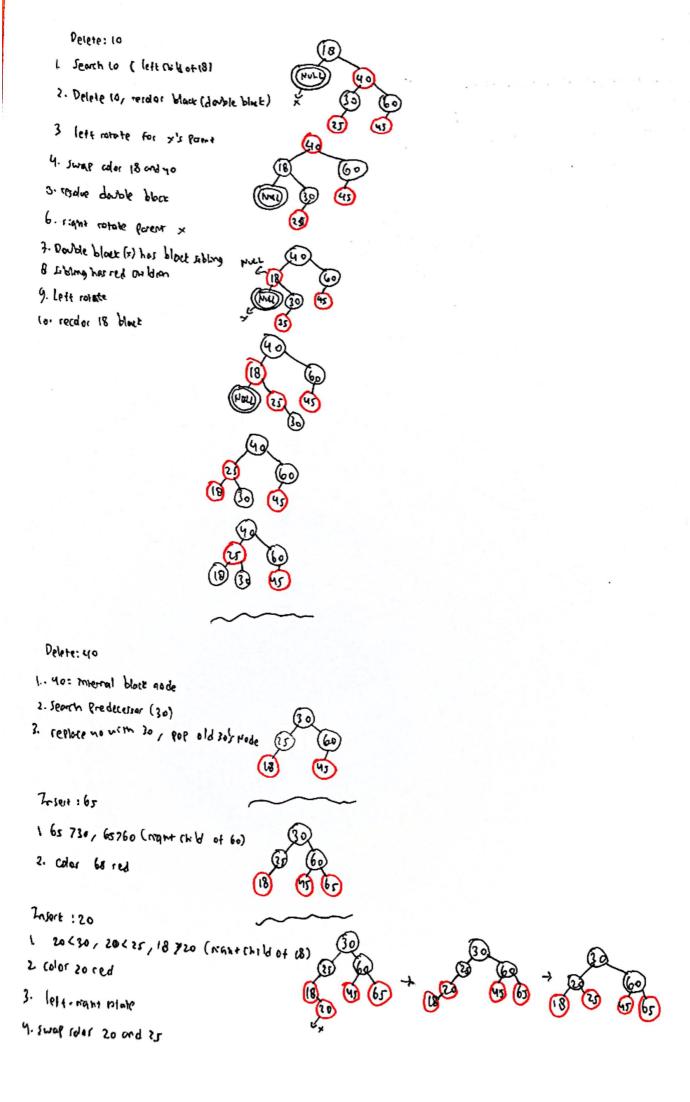












## - I WA: 32

- 1. 35 730, 30 < 60, 30 L 45 (lett CH 1 of 45)
- 2. color 3s red
- 7. 2 conserve red redor x' forer black
- 4. grandpara is not rook, who red

