

LISTA 10 - Árvores de Busca e Árvores Balanceadas

ENZO ROCHA LEITE DINIZ RIBAS

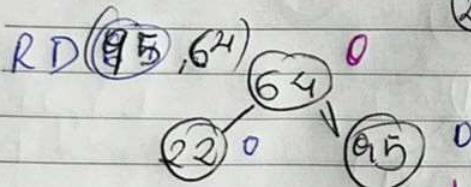
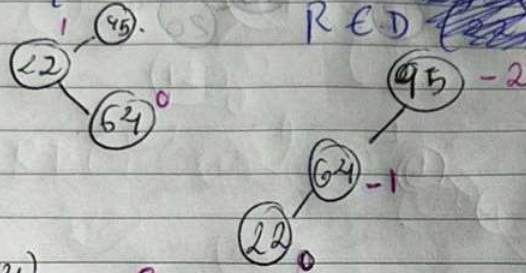
25/11/2025

Lista 10 - Árvores AVL

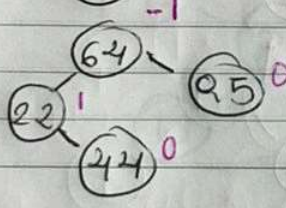
① a) {95, 22, 64, 44, 8, 79, 83, 43, 60, 47}

Inserir 95 (95)⁰ Inserir 22 (95)⁻¹

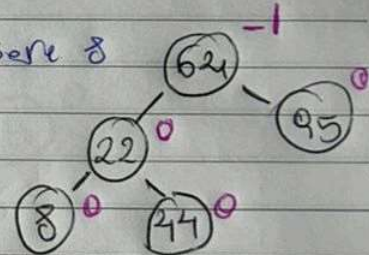
Inserir 64 (22)⁻² RED (22, 64) [RE(22, 64)]



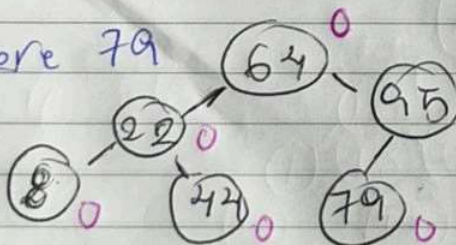
Inserir 44



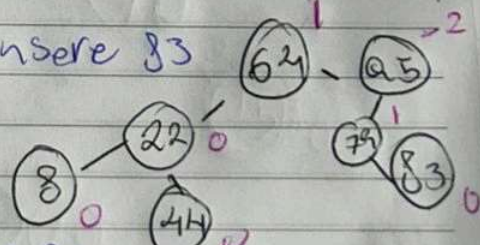
Inserir 8



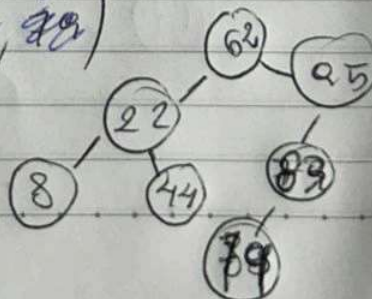
Inserir 79



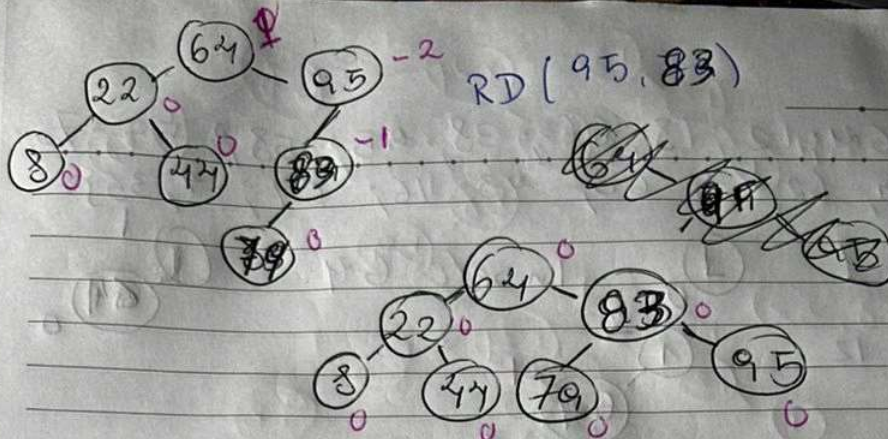
Inserir 83



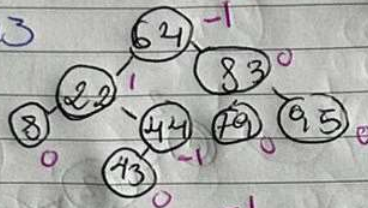
RED (95, 79) RE (83, 79)



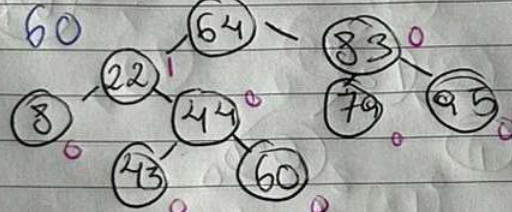
FORONI



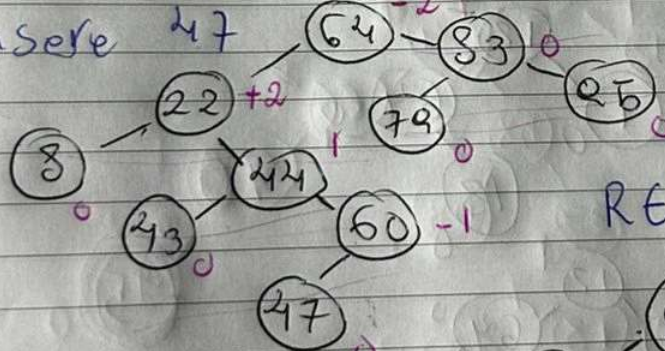
insere 43



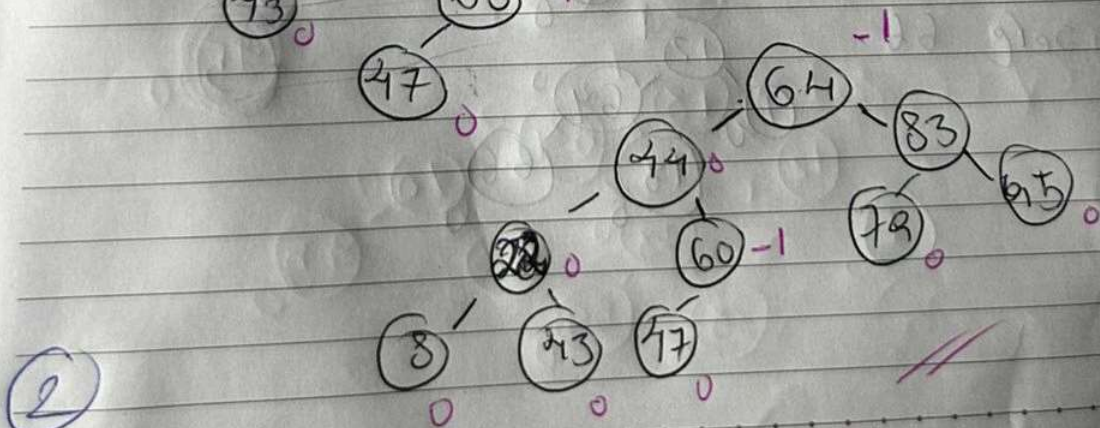
insere 60



insere 47



RE (22, 44)



②

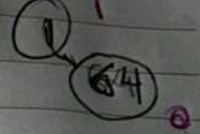
FORONI

1, 64, 12, 18, 66, 38, 95, 58, 59, 70, 68, 39, 62, 7, 60, 43, 16, 67, 34, 35

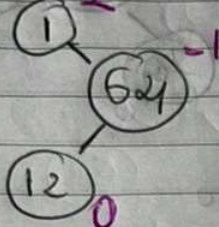
Inserte 1



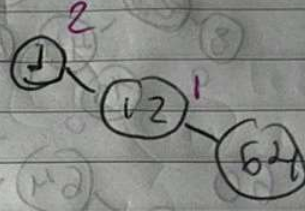
Inserte 64



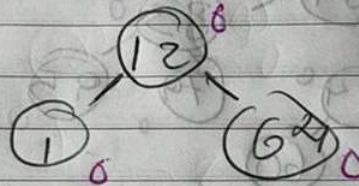
Inserte 12



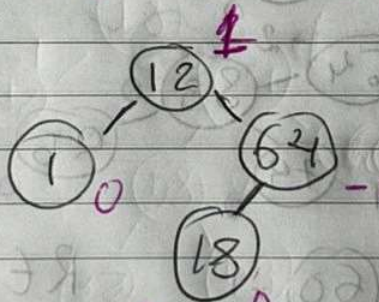
RDE RD(64, 12)



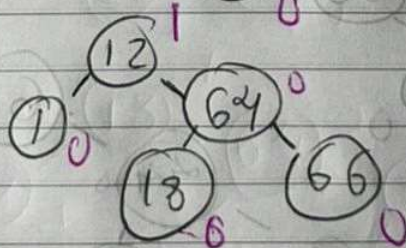
RE(1, 12)



Inserte 18

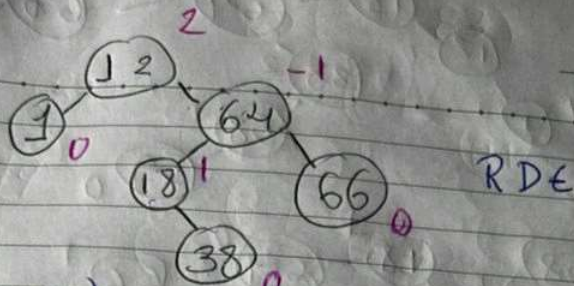


Inserte 66

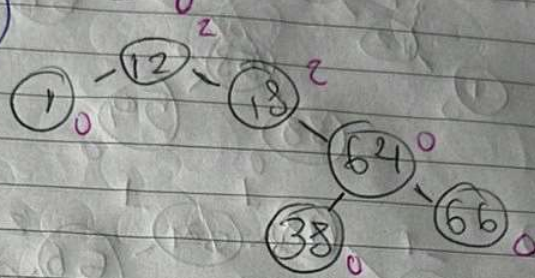


3

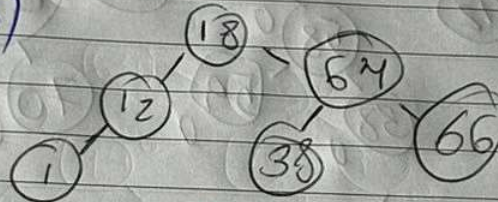
Inserte 38



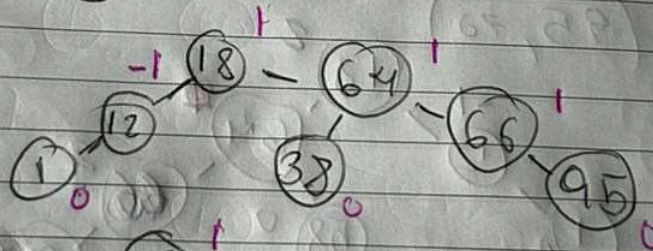
RD(64, 18)



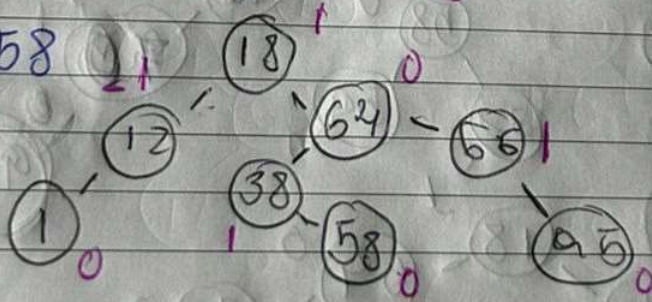
RE(12, 18)



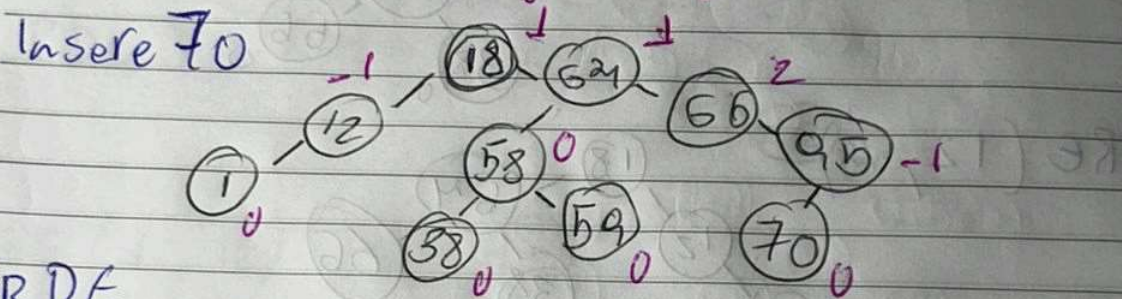
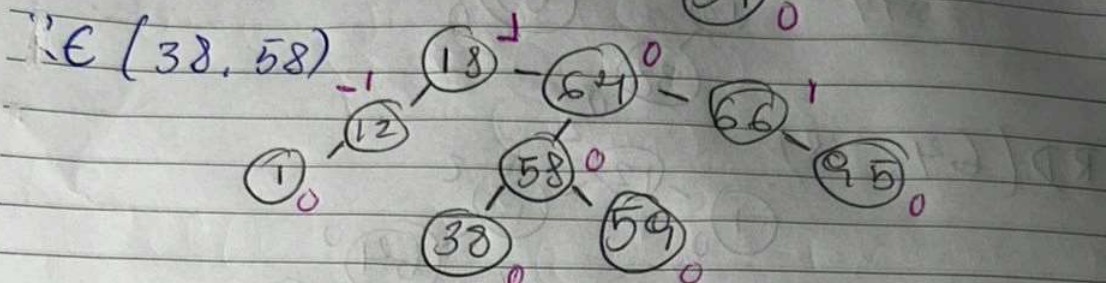
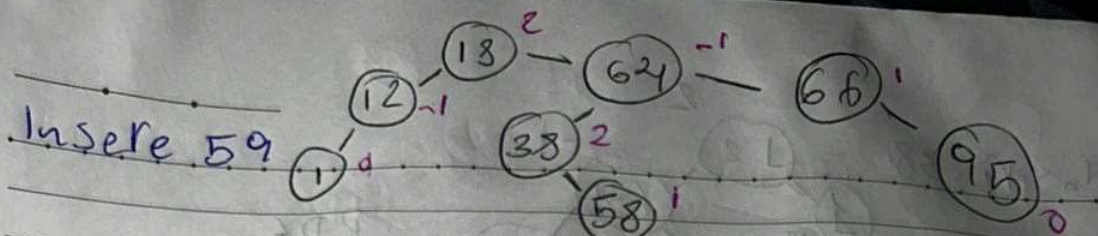
Inserte 95



Inserte 58

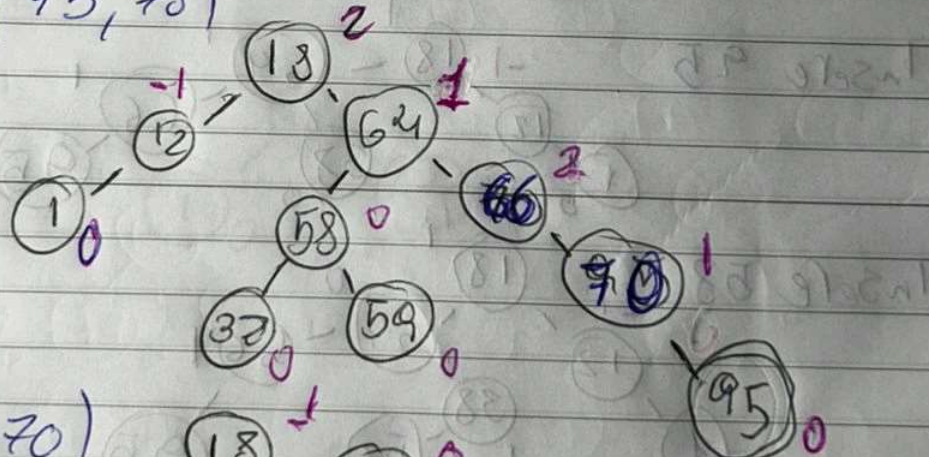


(4)

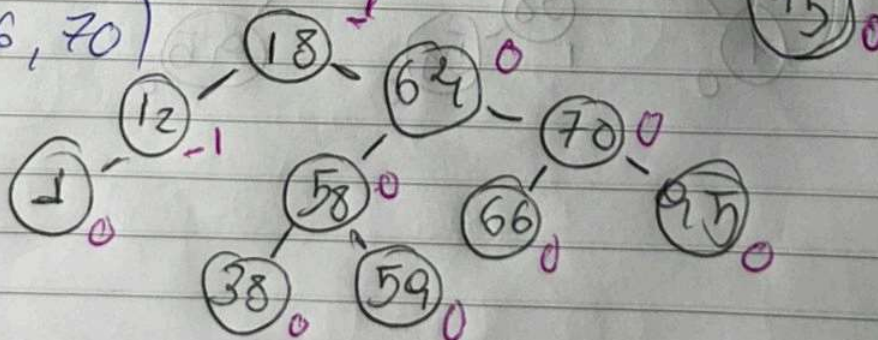


RDE

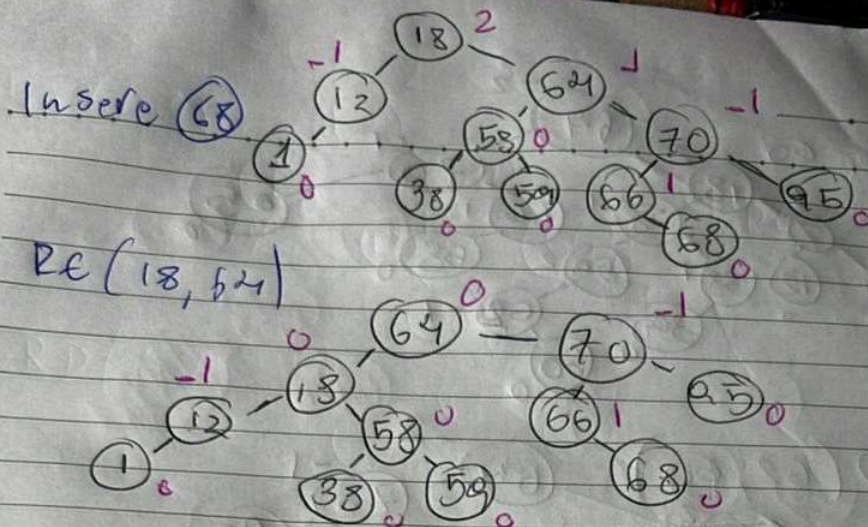
RD (95, 70)



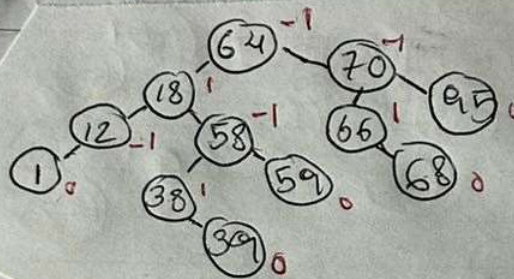
RE (66, 70)



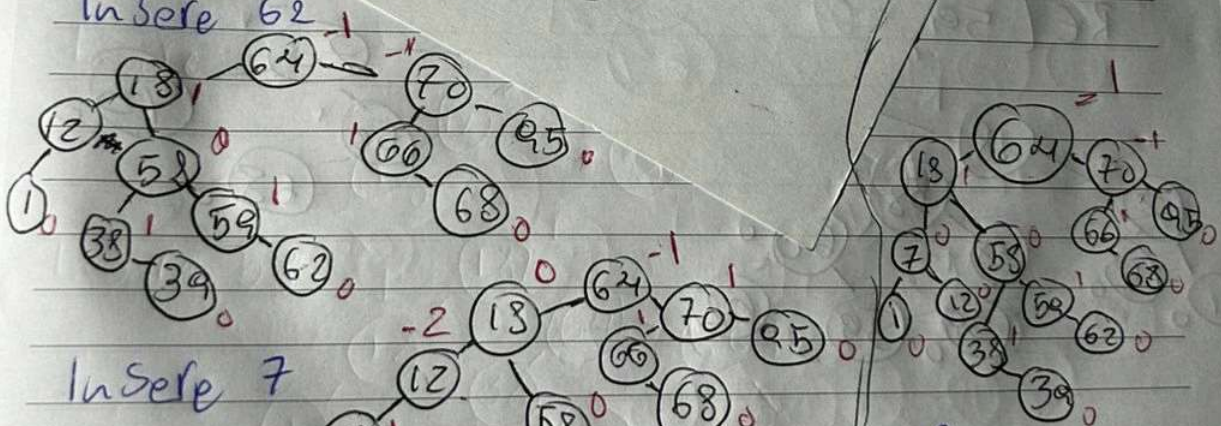
(5)



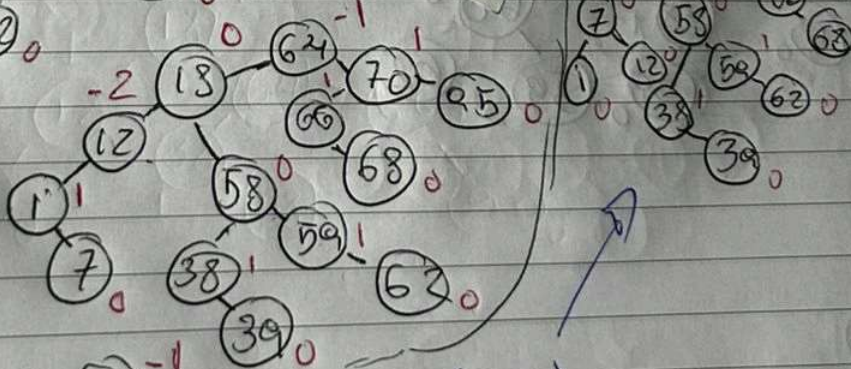
Inserte 39



Inserte 62



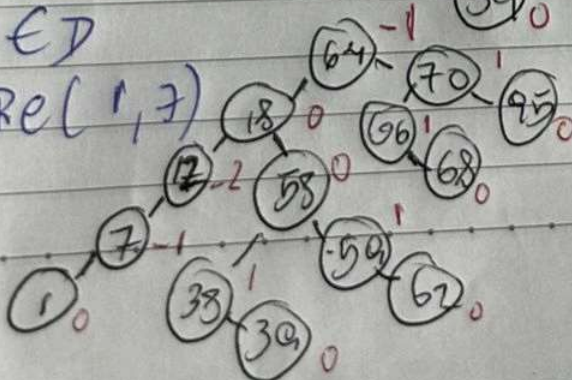
Inserte 7



RED

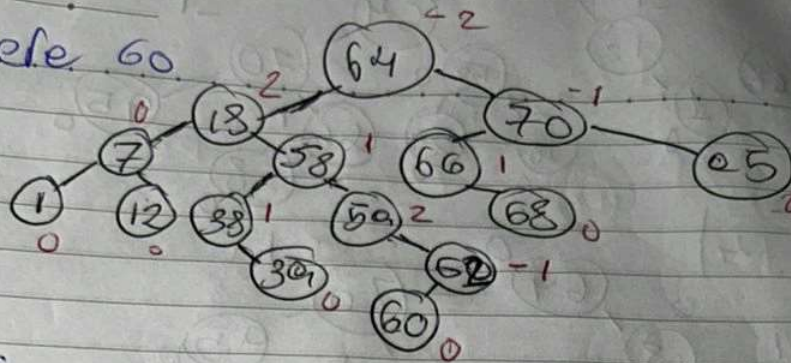
Re(1, 7)

Rr(12, 7)



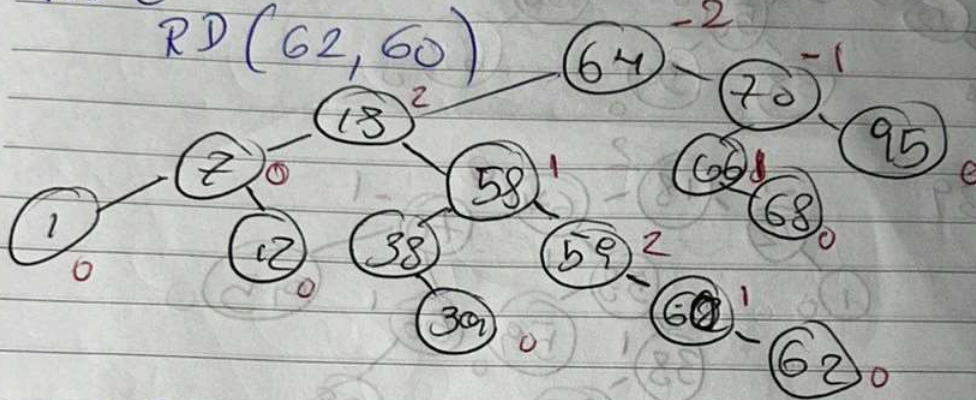
FORONI

Inserir 60

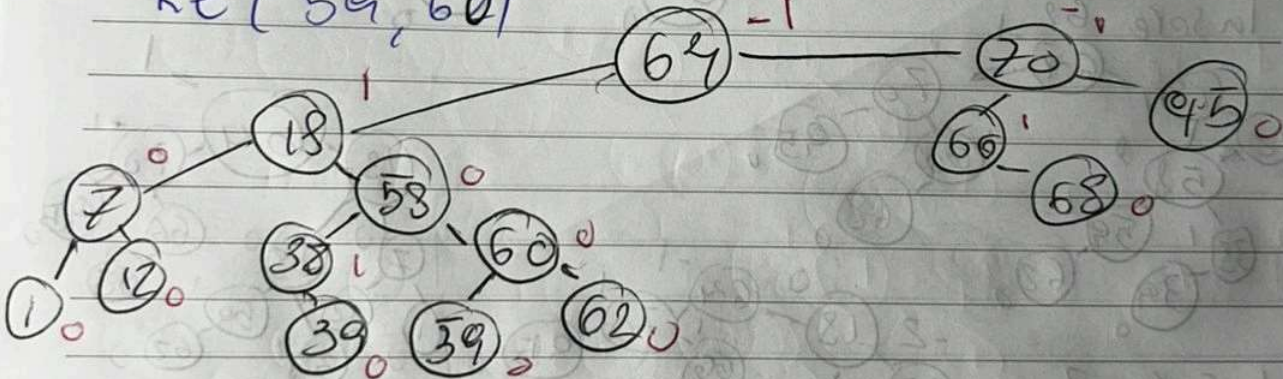


RDE

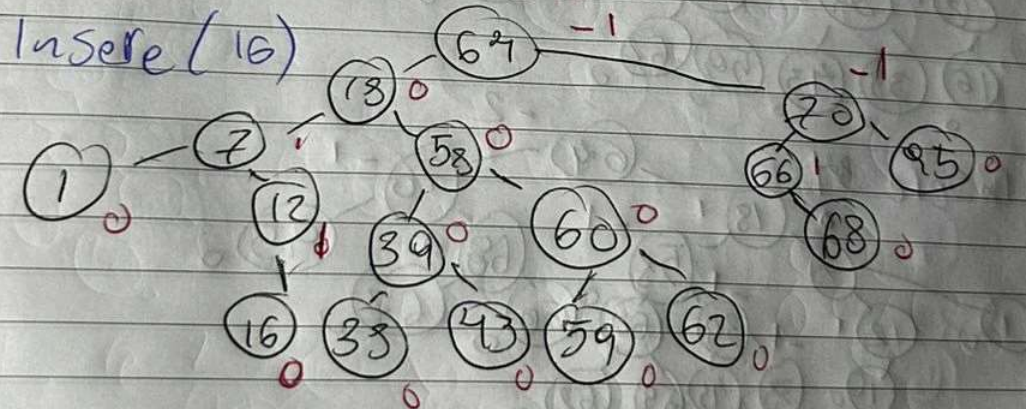
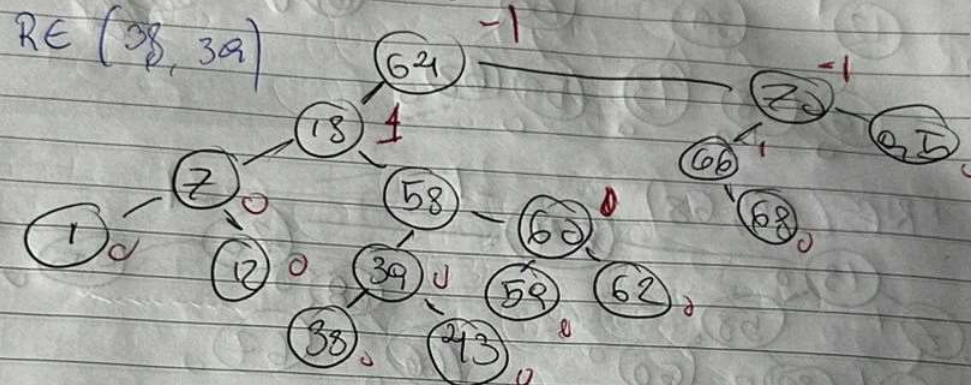
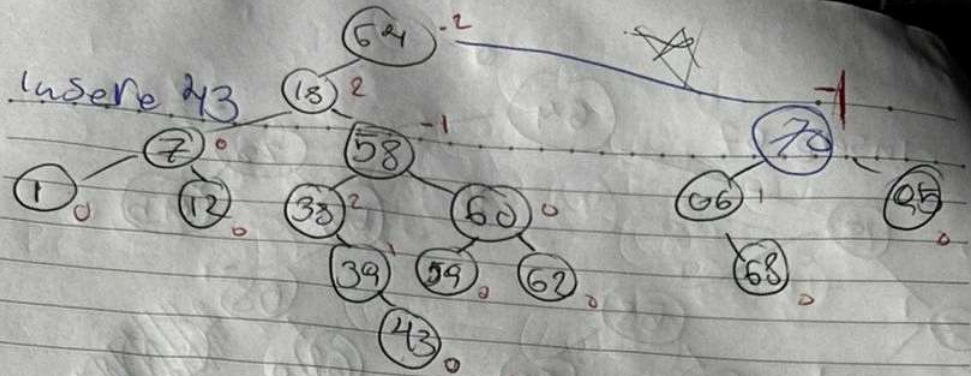
RD(62, 60)



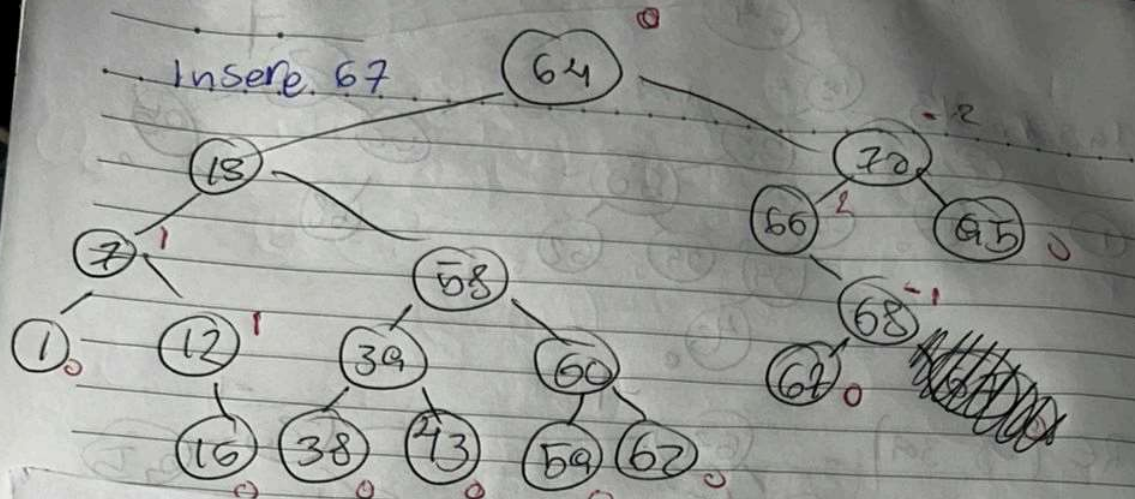
RE(59, 60)



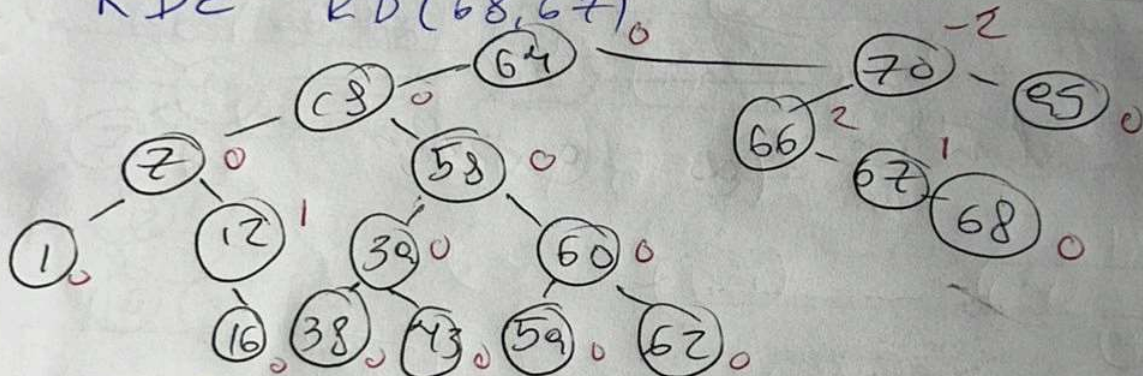
⑦



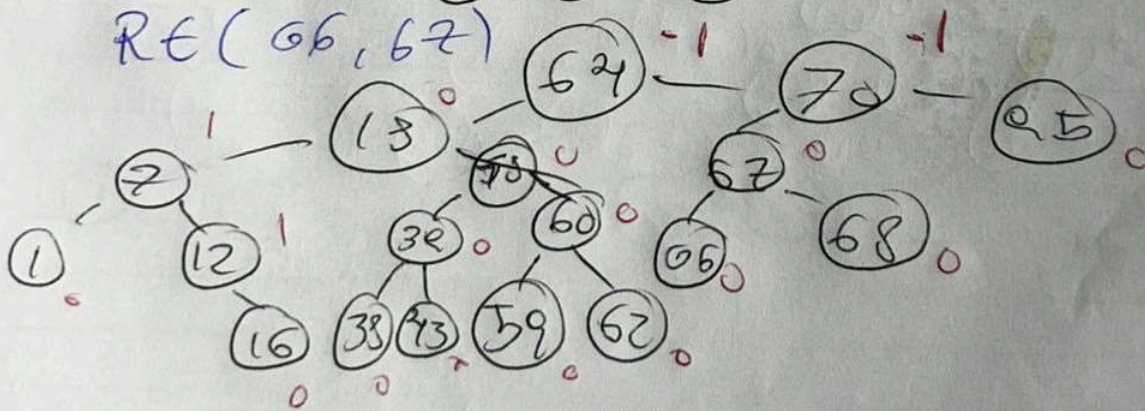
③



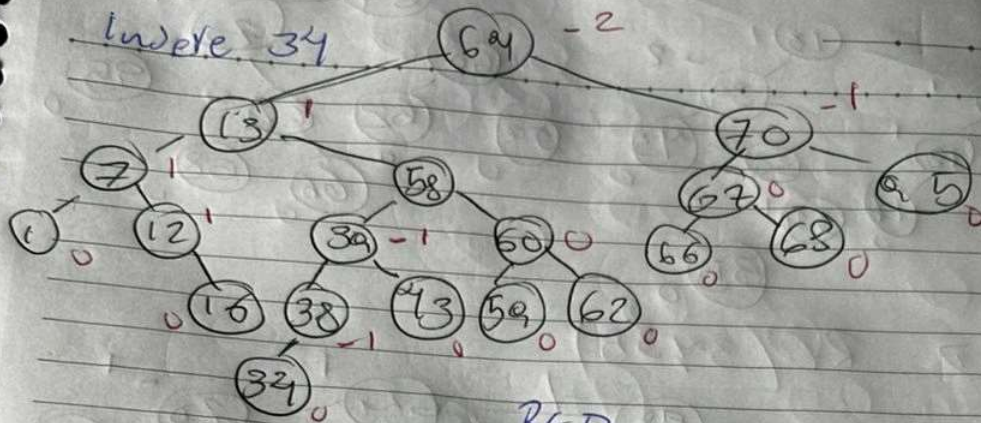
RDE RD(68, 67)



RE(66, 67)

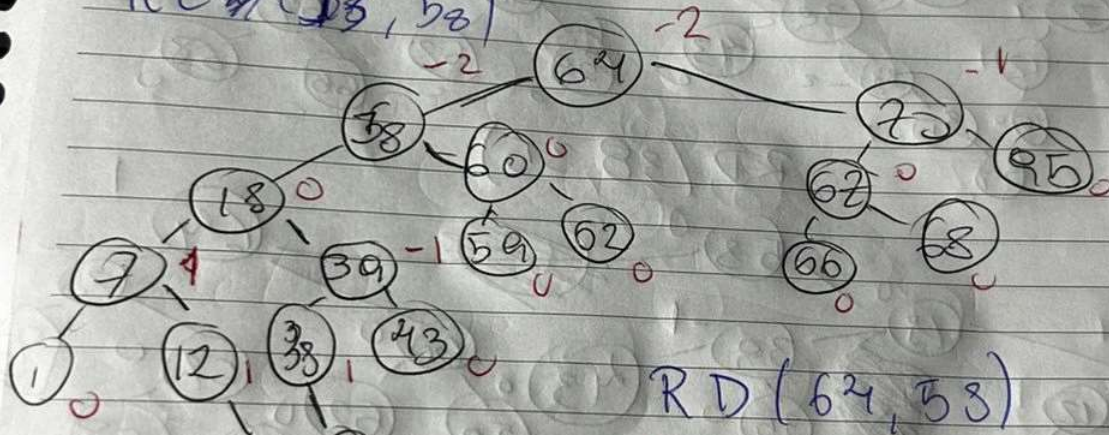


9

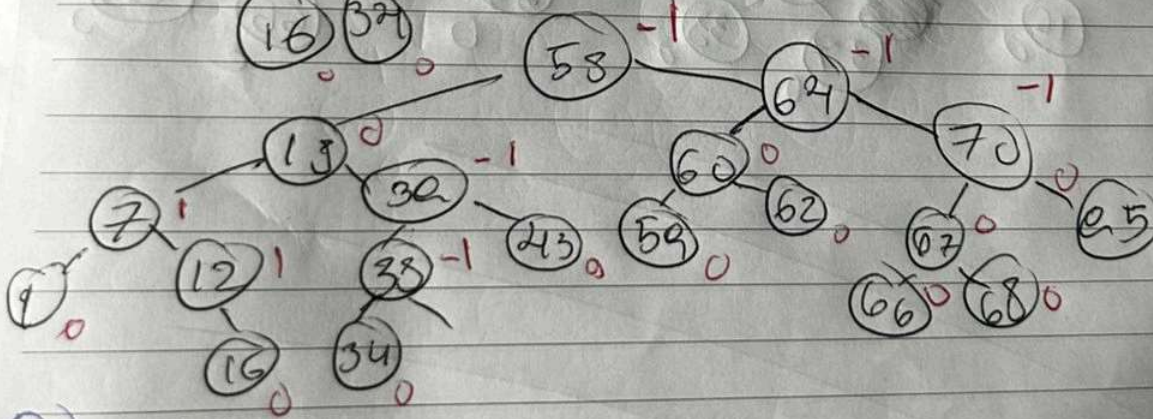


RED

RE (13, 58)



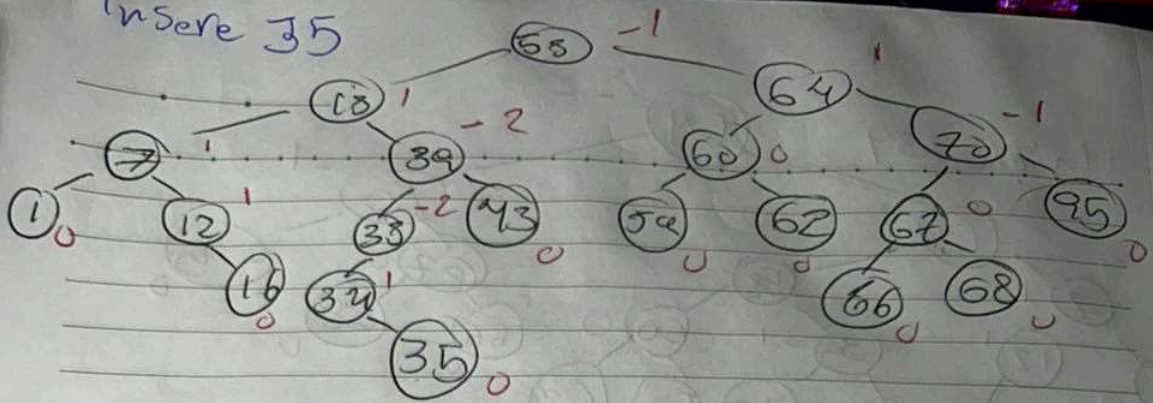
RD (64, 58)



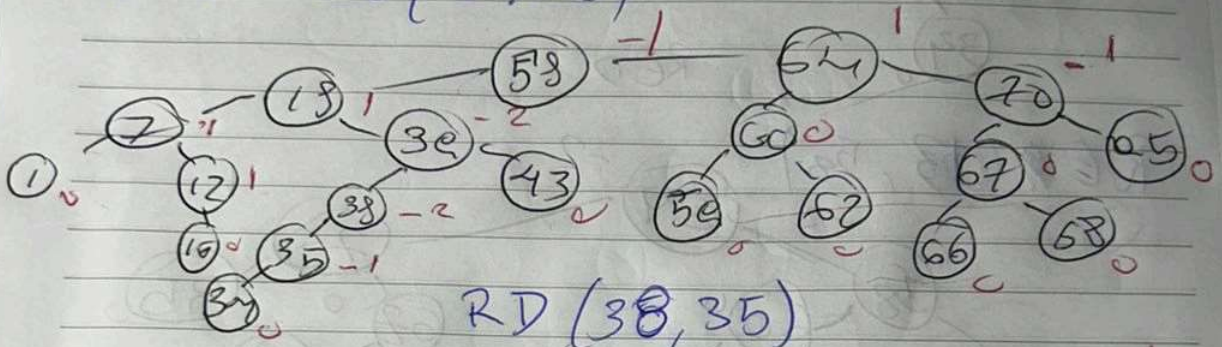
(10)

FORONI

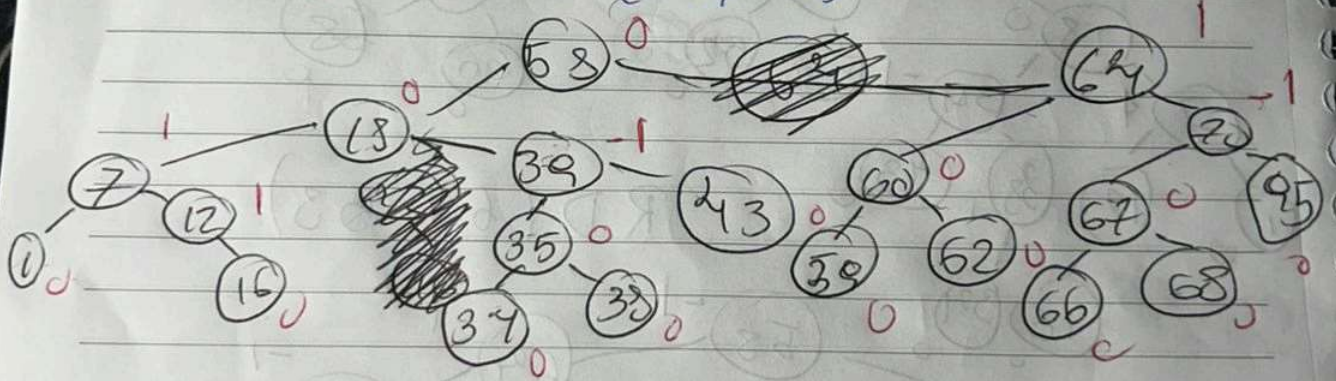
Insere 35



RED RE(34,35)

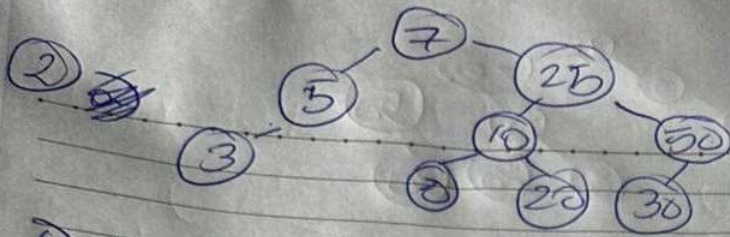


RD(38,35)



(11)

FORONI



a) Orden:

3 - 5 - 7 - 8 - 10 - 20 - 25 - 30 - 50

b) Pós-orden:

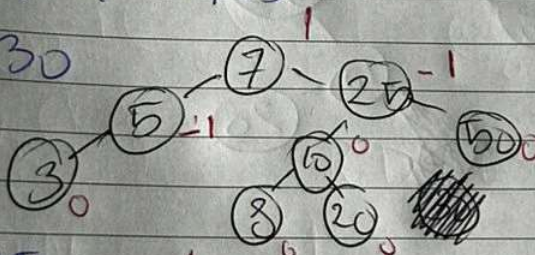
3 - 5 - 8 - 20 - 10 - 30 - 50 - 25 - 7

c) Pré-orden:

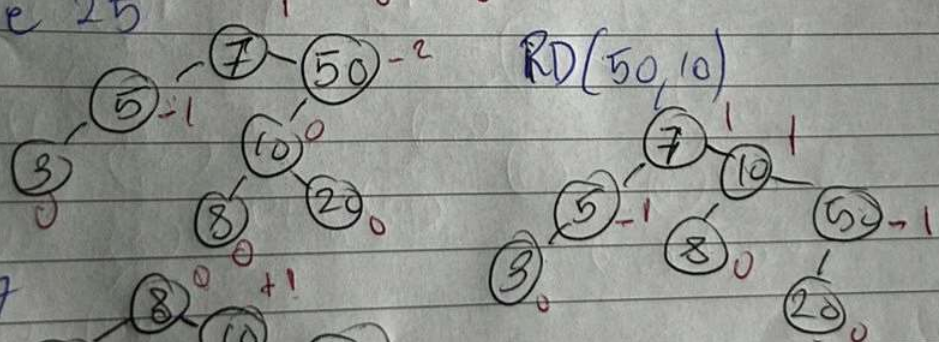
7 - 5 - 3 - 25 - 10 - 8 - 20 - 50 - 30

d) Remove {30, 25, 7}

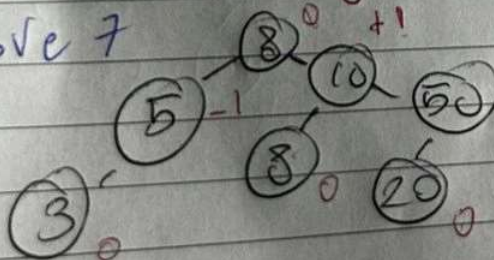
Remove 30



Remove 25

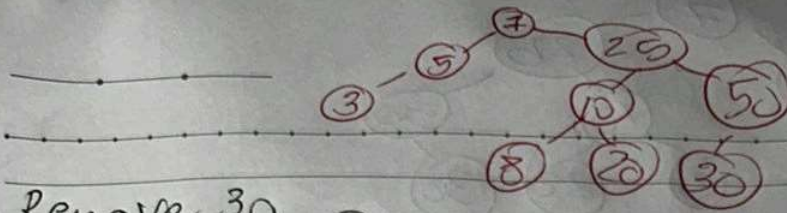


Remove 7

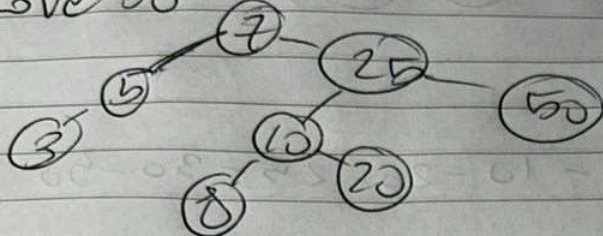


12

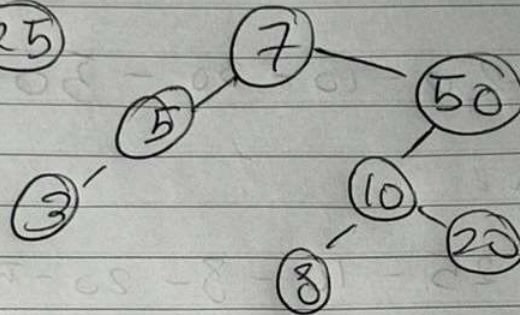
FORONI



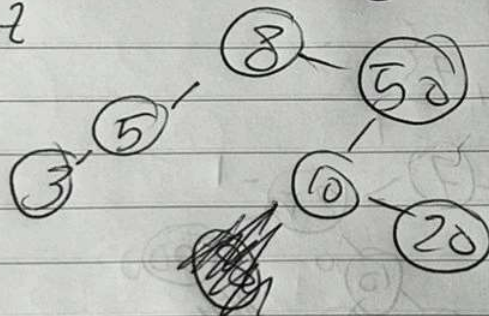
Remove 30



Remove 25



Remove 7



13