

LISTA 10 - Árvores de Busca e Árvores Balanceadas

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25/11/2025

Lista 10 - Árvore AVL

① o { 95, 22, 64, 44, 81, 79, 83, 43, 60; }
 47 } -1

Inserção 95

(95) 0

Inserção 22

(22) 0

Inserção 64

(64) 0

RED [RE(22, 64)]

(95) -2

(22) 0

RD(95, 64)

(64) 0

Inserção 44

(44) 0

Inserção 8

(8) 0

(22) 0

Inserção 79

(79) 0

inserção 83

(83) 0

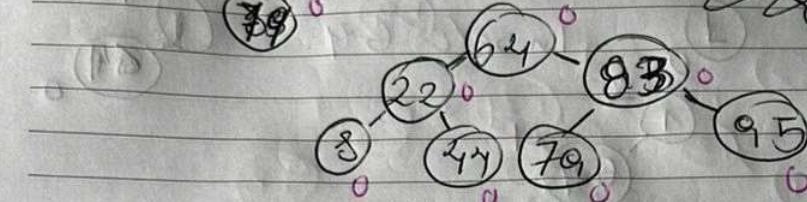
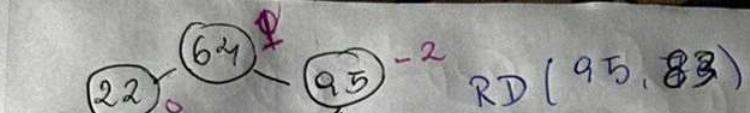
RED(95, 79)

RE(83, 83)

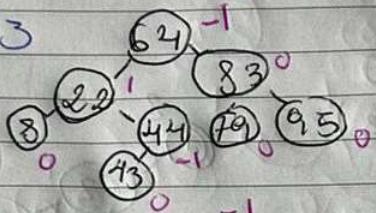
(22) 0

1

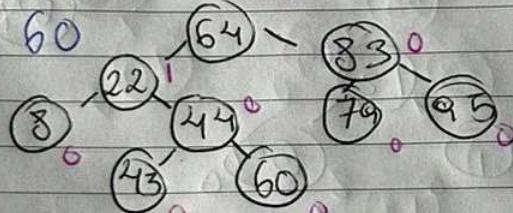
FORONI



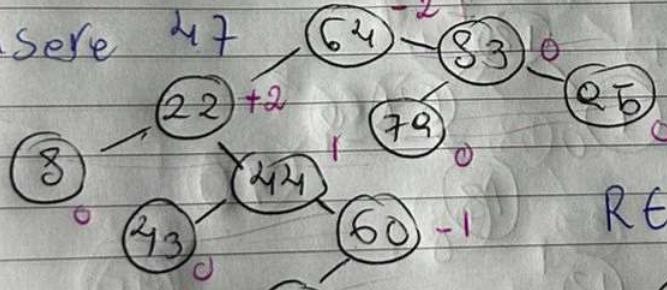
Inserere 43



Inserere 60



Inserere 47



RE (22, 47)

2

FORONI

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

Inserção 1

1

Inserção 12

1

2

Inserção 64

1

64

RDE

RD(64, 12)

PE(5, 12)

1

2

6

1

2

1

0

Inserção 18

1

2

6

1

2

1

0

Inserção 66

1

2

6

1

2

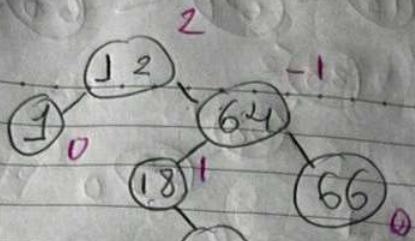
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0

③

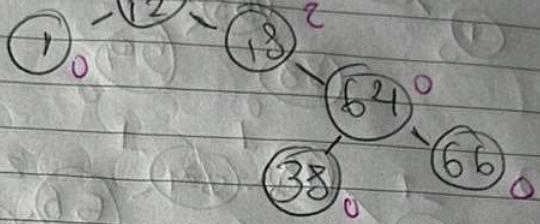
FORONI

Insere 38

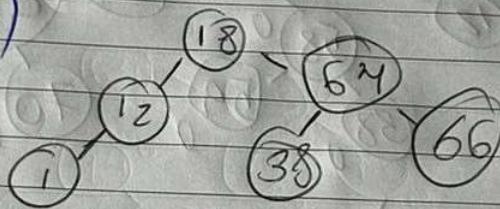


RDE

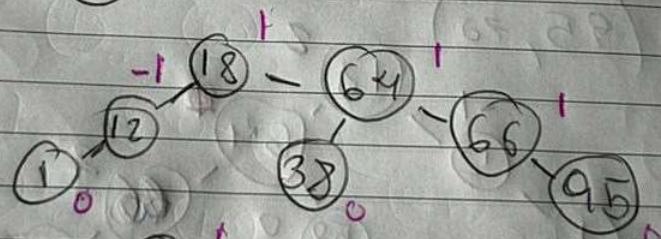
RD(64, 18)



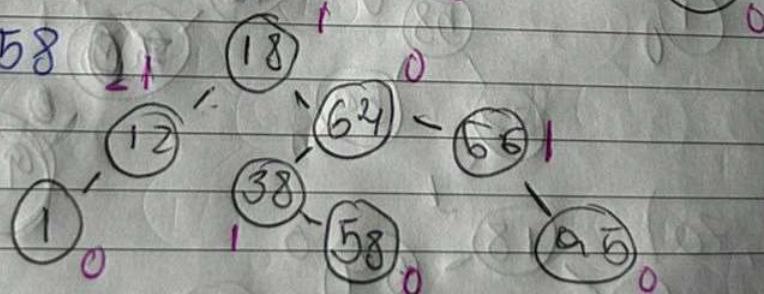
RE(12, 18)



Insere 95

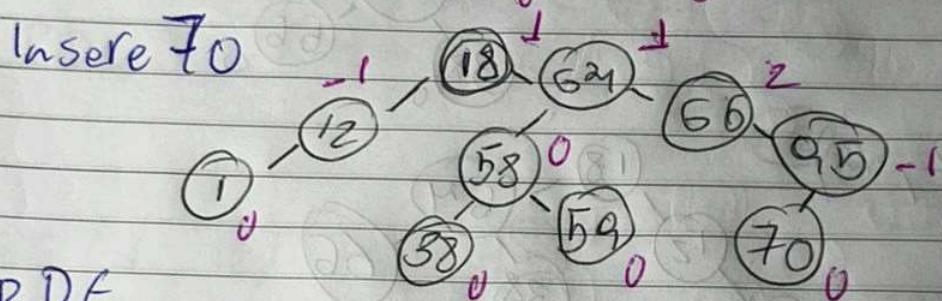
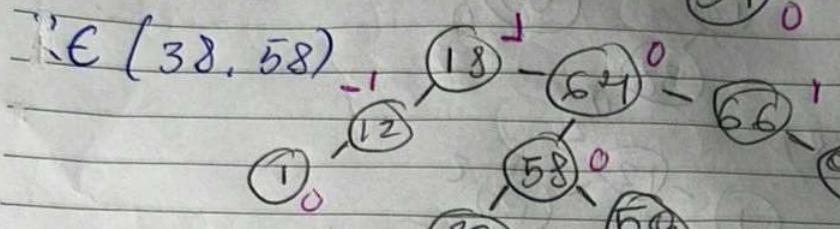
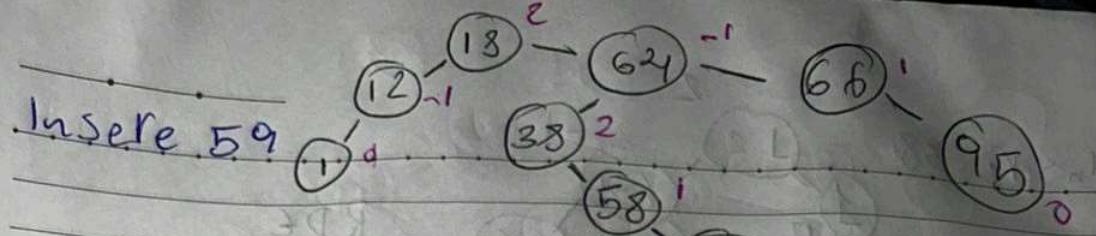


Insere 58



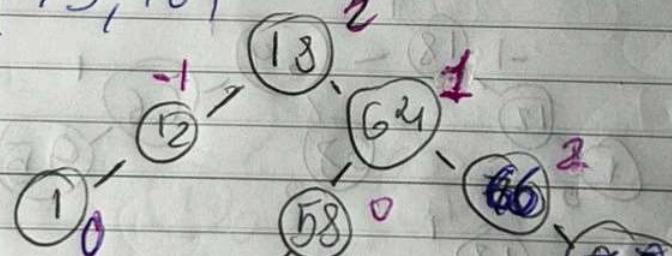
(d)

FORONI

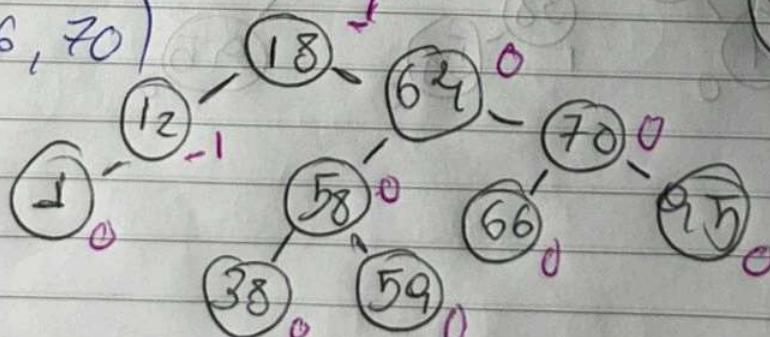


RDE

RD(95, 70)

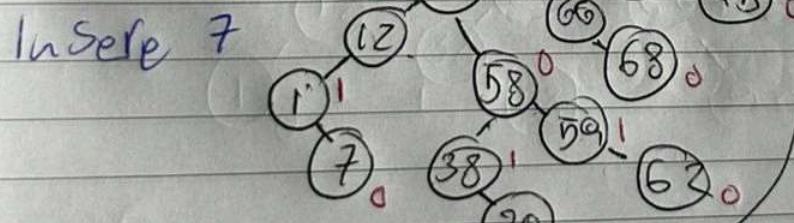
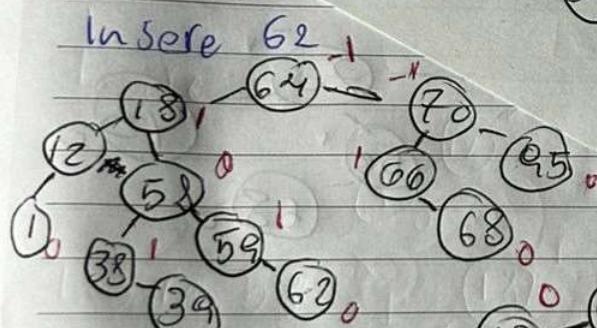
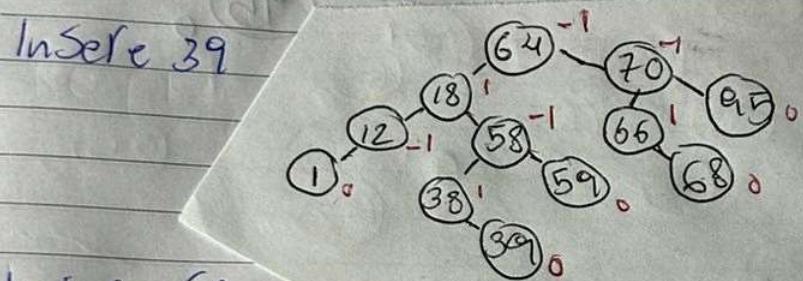
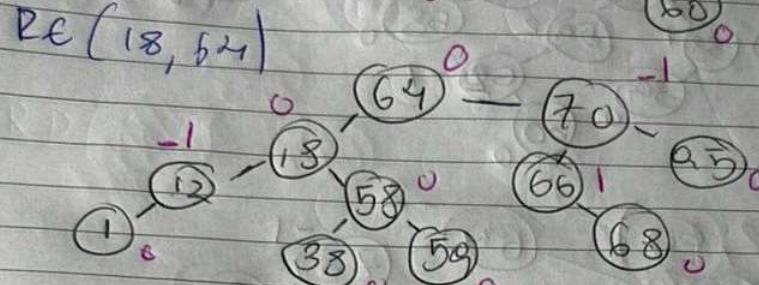
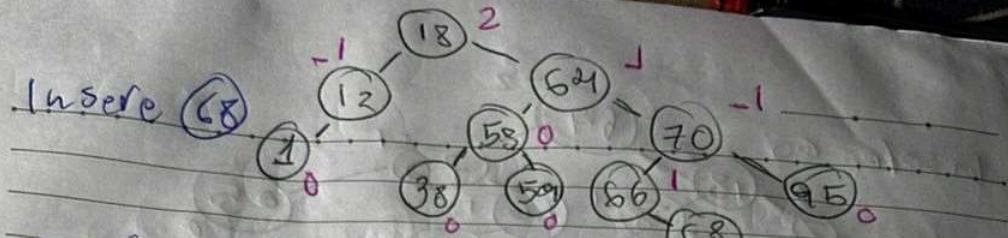


RE(66, 70)



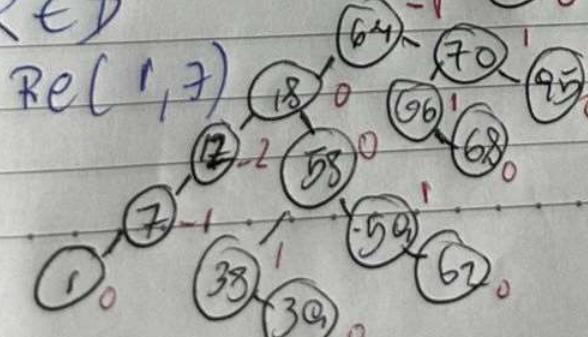
5

FORONI



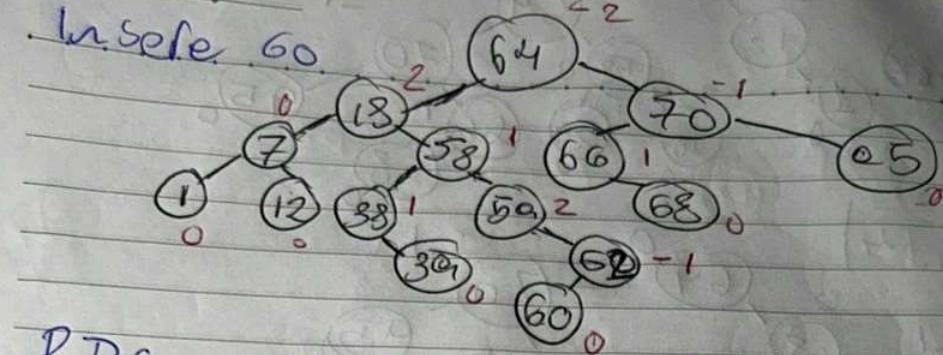
RED
RE(1, 7) RP(12, 7)

(6)

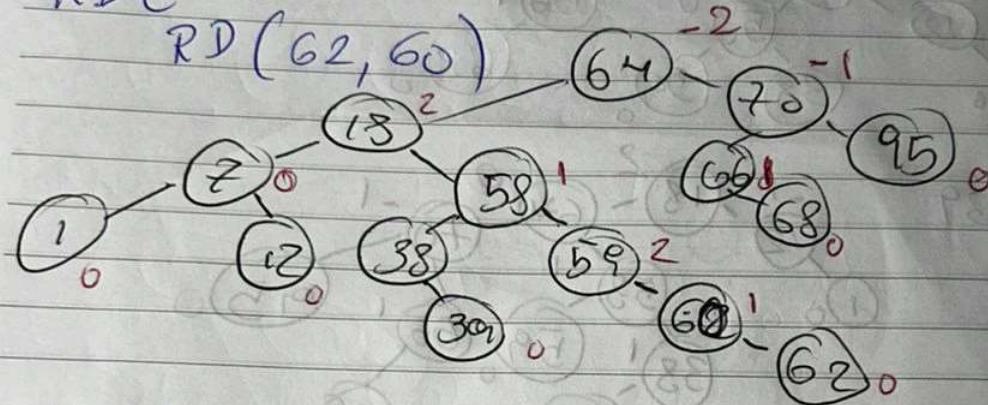


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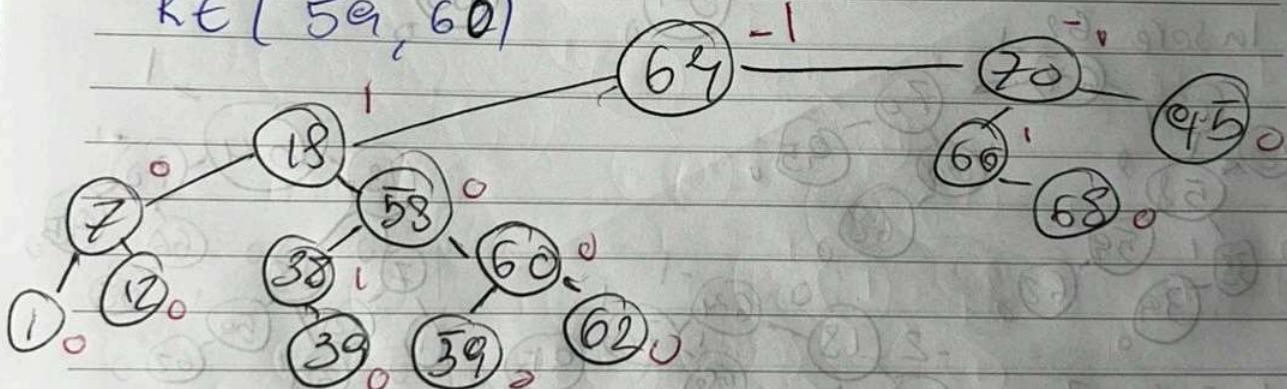
Inserção 60



RDE

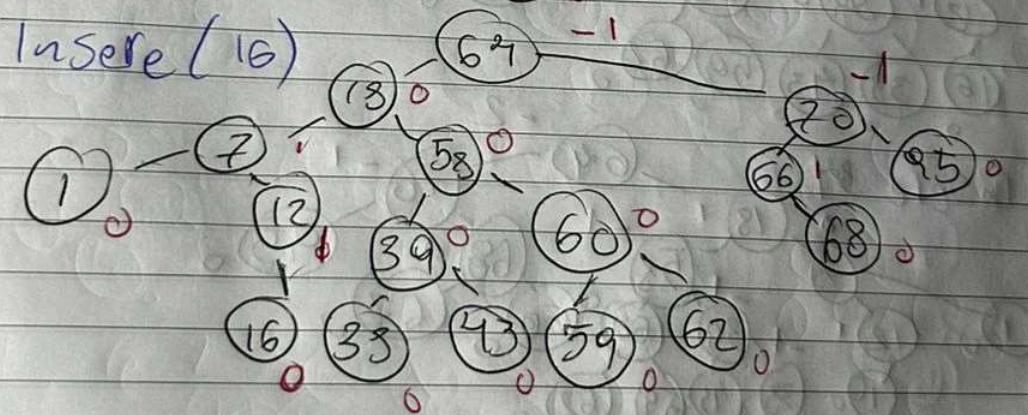
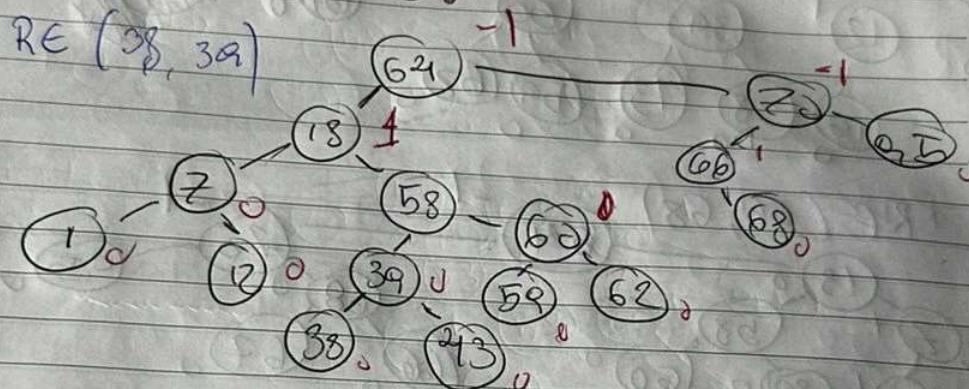
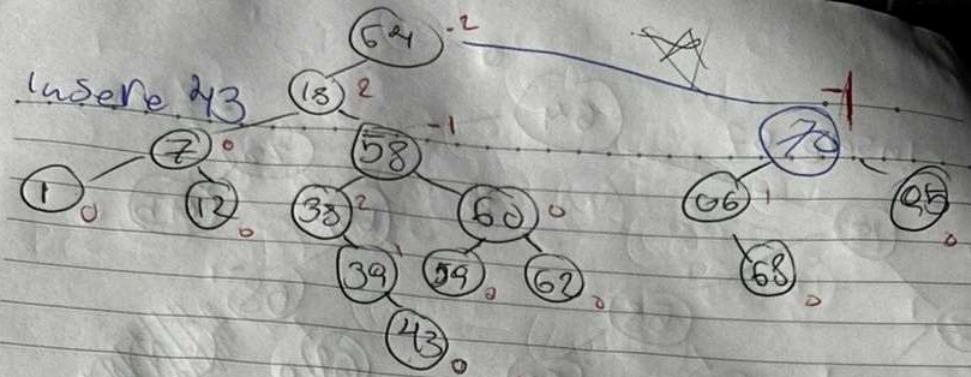


RE(59, 60)



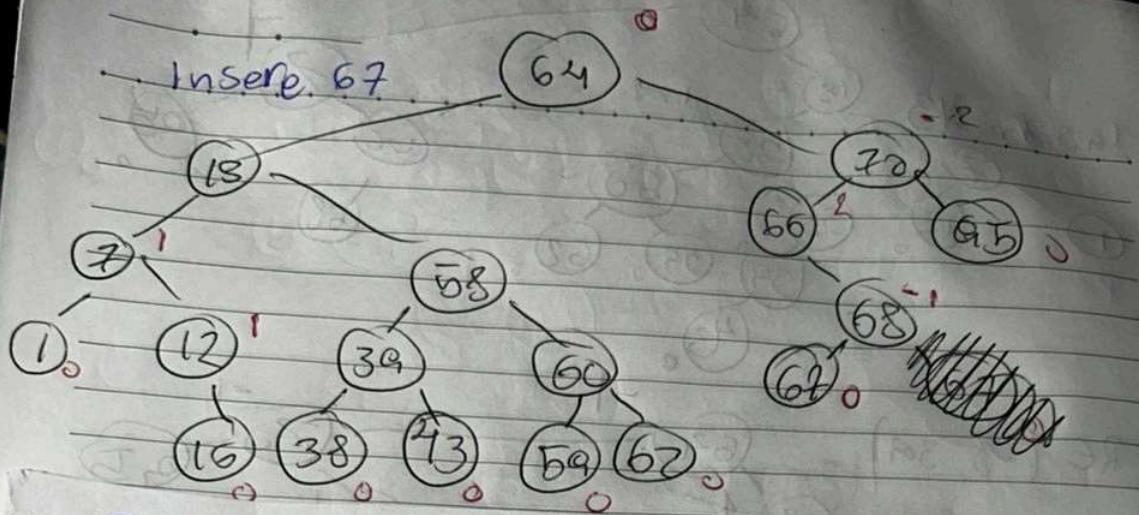
(7)

FORONI

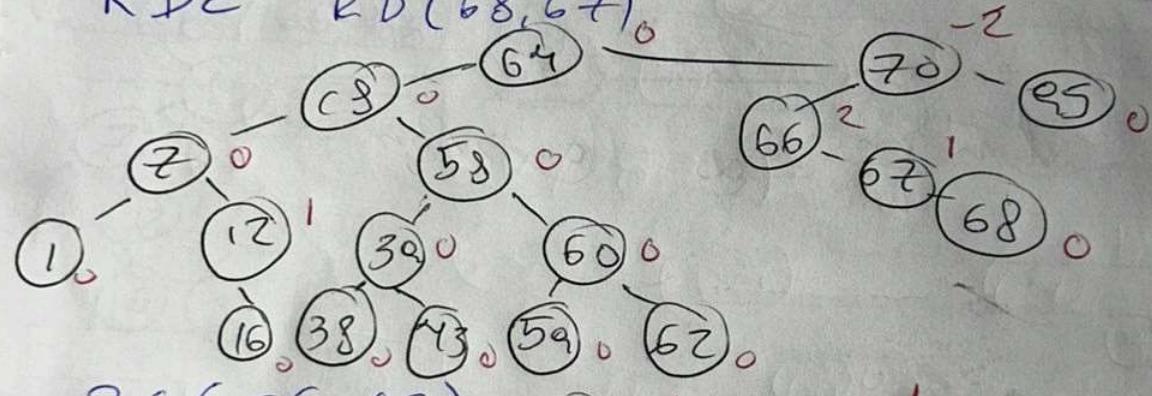


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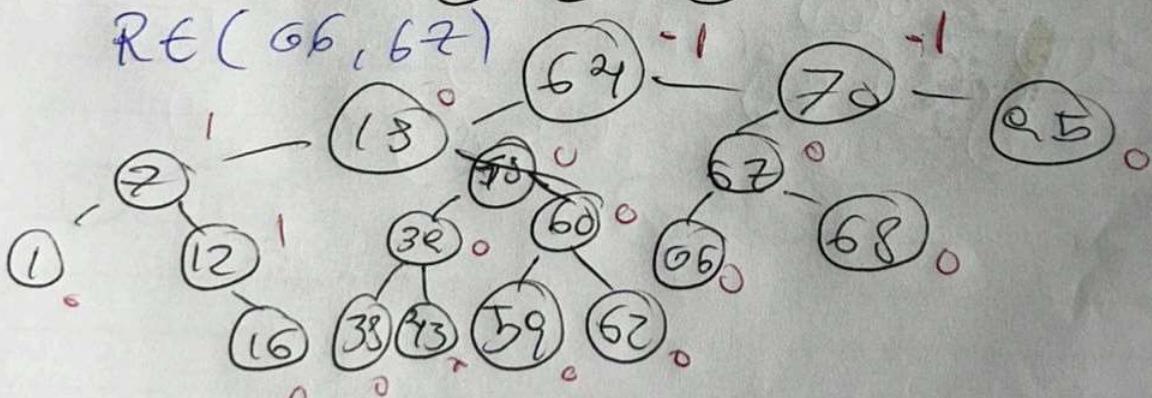
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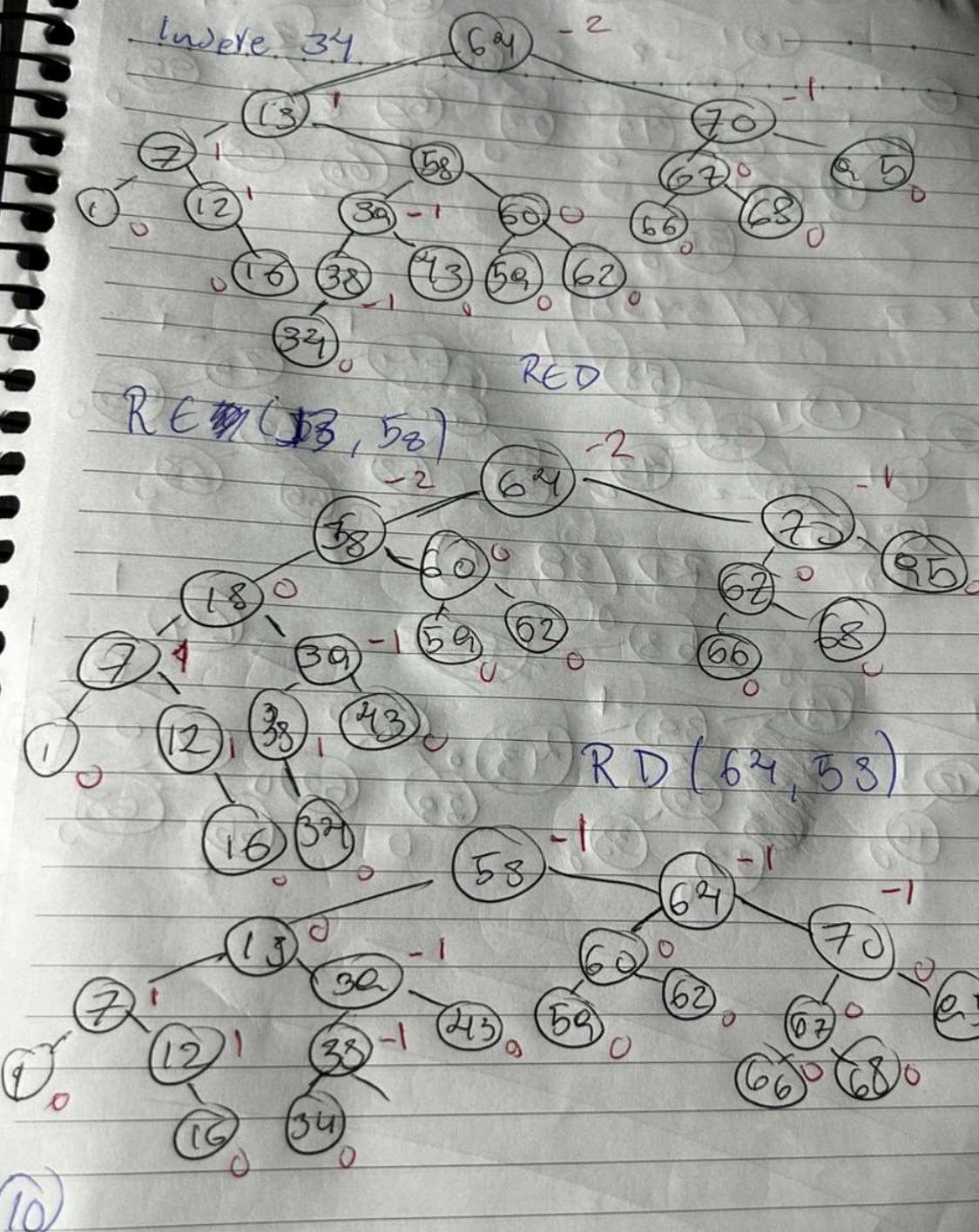
RDE RD(68, 67)



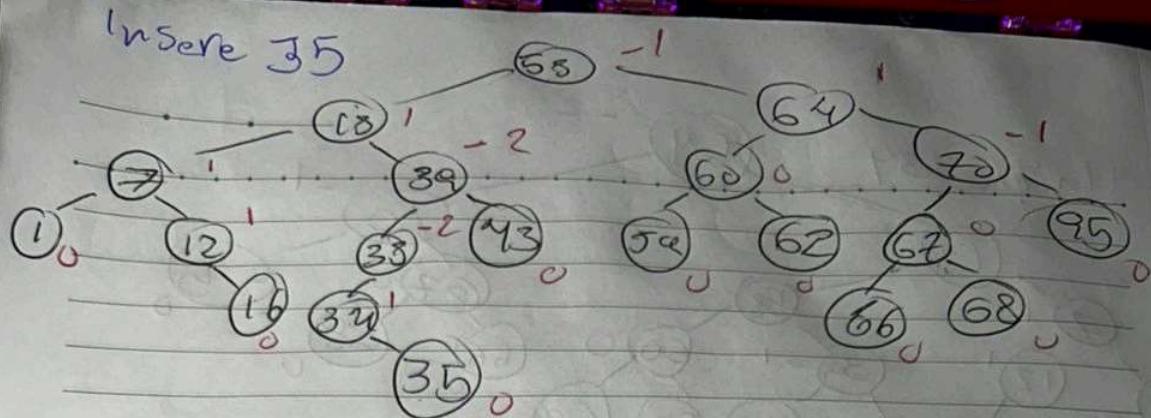
RD(66, 62)



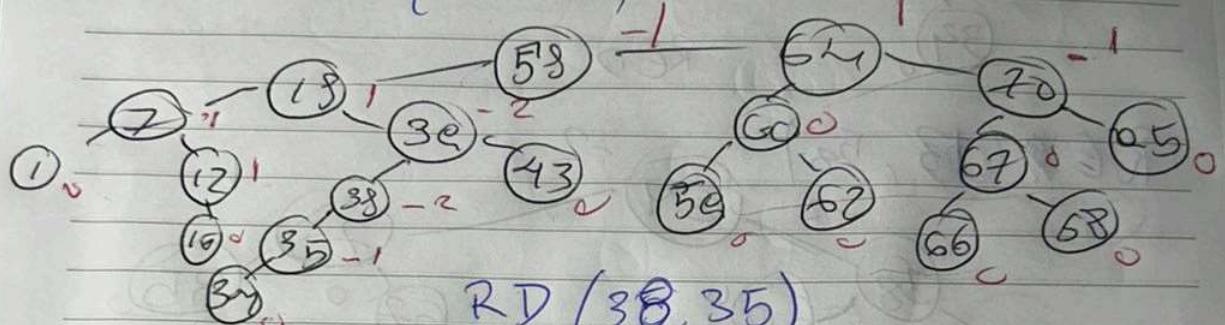
⑨



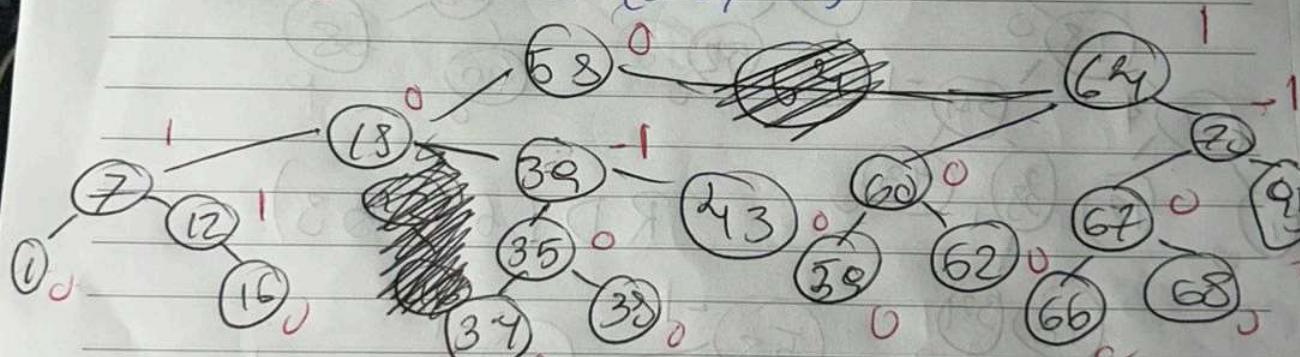
FORONI



RED RE(34, 35)

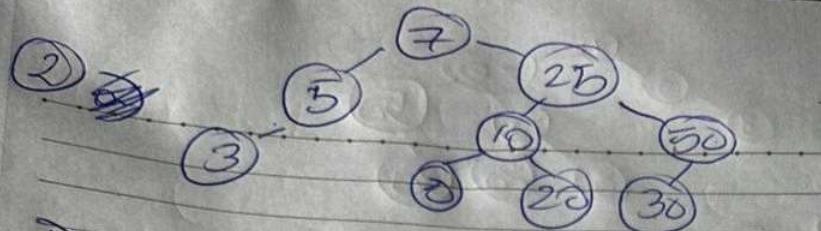


RD (38, 35)



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c) Ordem:

D) Pós-ordem:
3 - 5 - 7 - 8 - 10 - 20 - 25 - 30 - 50

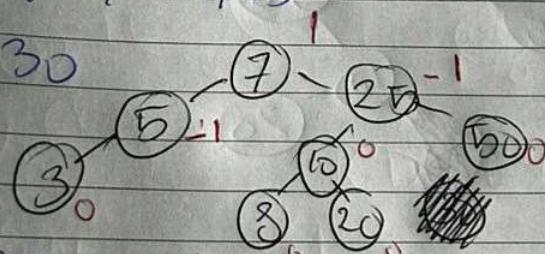
3 - 5 - 8 - 20 - 10 - 30 - 30 - 25 - 7

e) Pre-ordem:

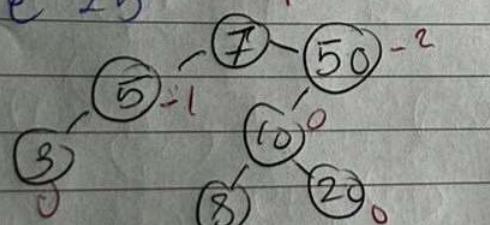
7 - 5 - 3 - 25 - 10 - 8 - 20 - 50 - 30

d) Remova {30, 25, 7}

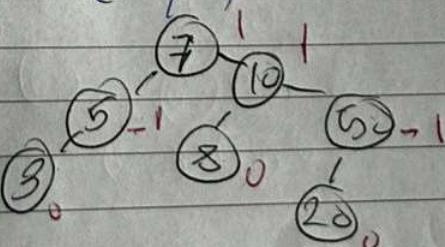
Remove 30



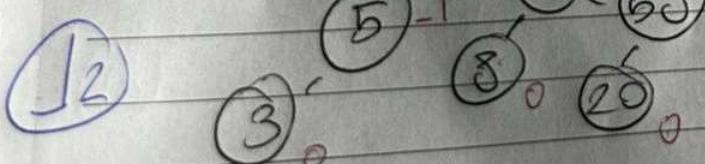
Remove 25



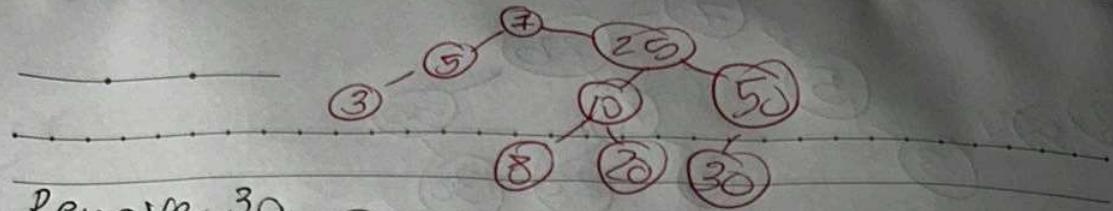
RD(50, 10)



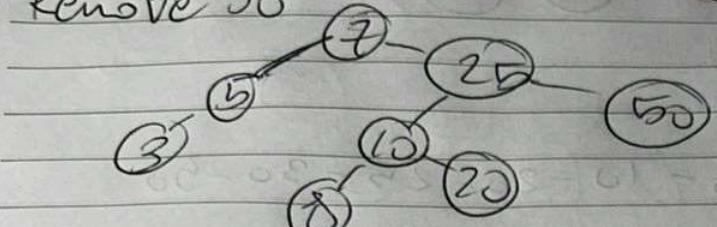
Remove 7



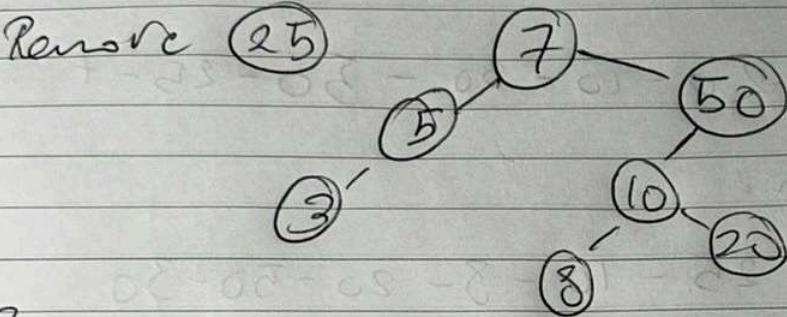
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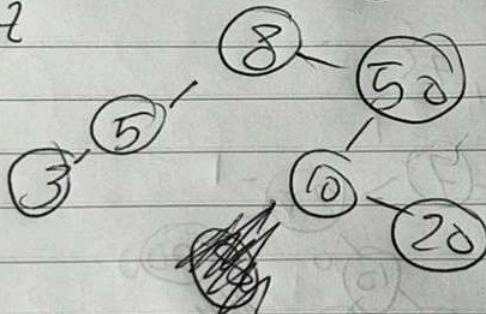
Remove 30



Remove 25



Remove 7



13