

Nombre: Adrian Iza

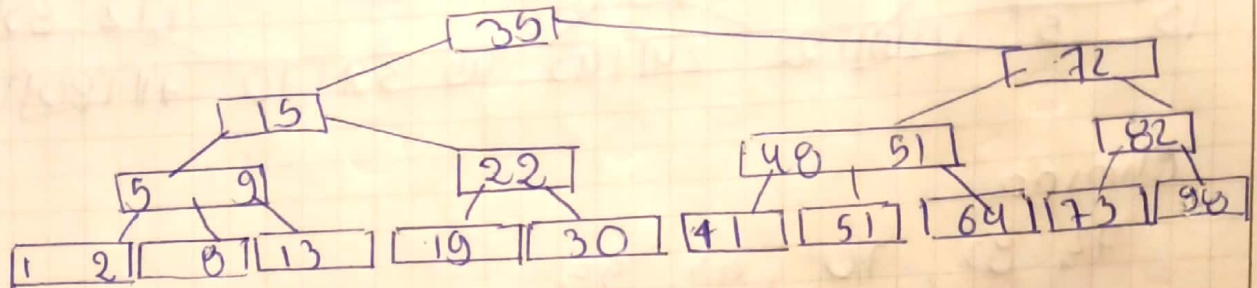
NRC: 3251

Arbol b

3 grado

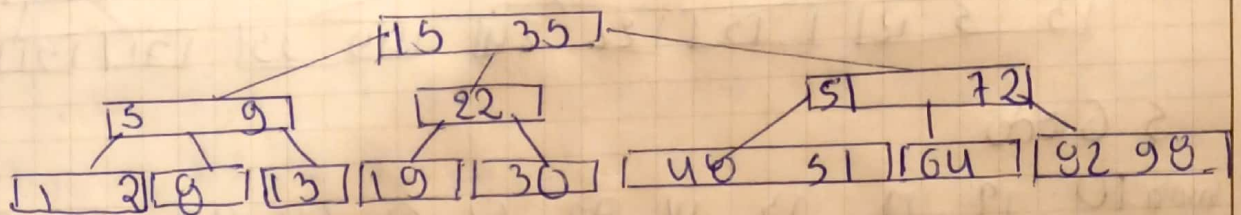
Insertar

22, 15, 30, 35, 72, 91, 82, 04, 51, 48, 1, 5, 19  
13, 98, 73, 41, 0, 2, 9

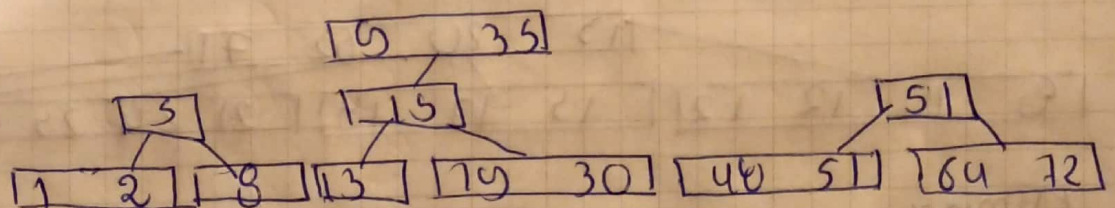


Eliminar

73, 41



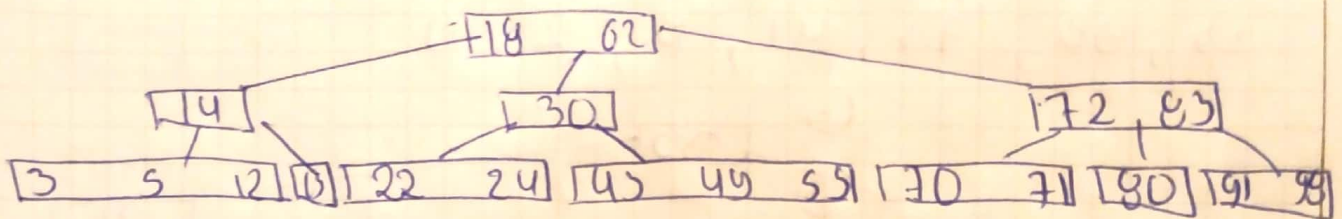
22, 98, 82



4 Grado

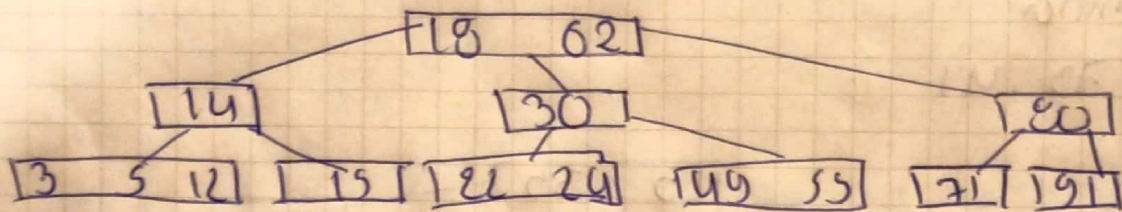
Inser

15, 30, 55, 62, 71, 98, 43, 22, 14, 5, 3, 12, 18  
24, 72, 91, 83, 80, 49, 70



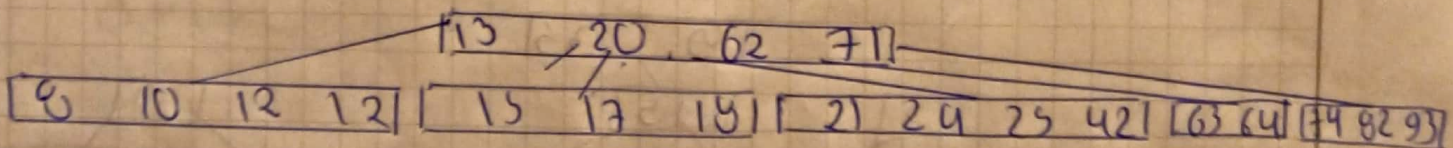
Elimina

72, 83, 70, 43, 98



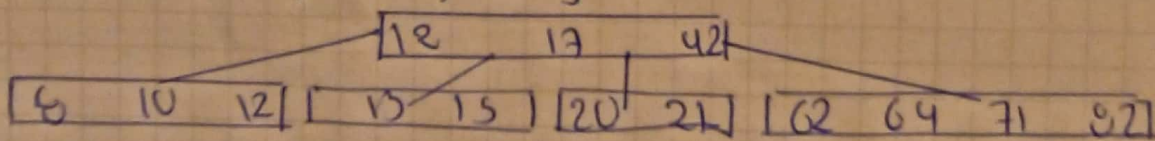
5 Grado

Inser: 10, 12, 11, 13, 46, 71, 62, 63, 64, 82, 93, 74  
15, 18, 20, 25, 24, 17, 12, 8



Eliminar

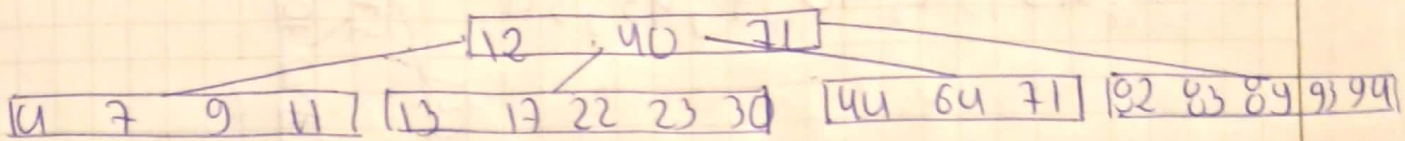
24, 63, 93, 74, 25, 18





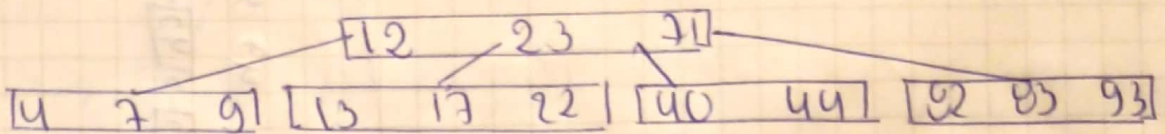
6 Grado / Insertar

40, 30, 71, 22, 93, 94, 44, 13, 12, 11, 9, 7, 71  
 82, 83, 89, 84, 23, 17, 4



Eliminar

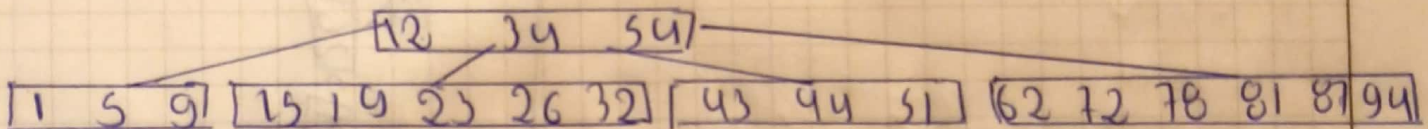
94, 71, 30, 11, 89, 64



7 Grado

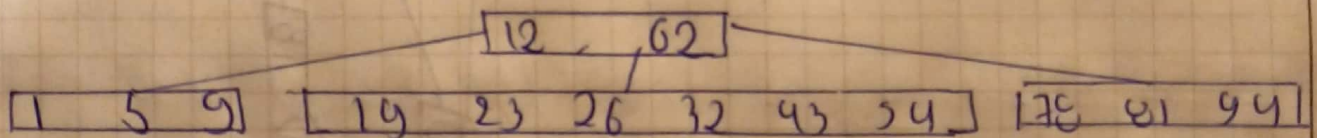
Insertar

19, 12, 9, 7, 5, 54, 72, 81, 94, 44, 43, 34, 23, 32  
 51, 15, 62, 26, 78, 87



eliminar

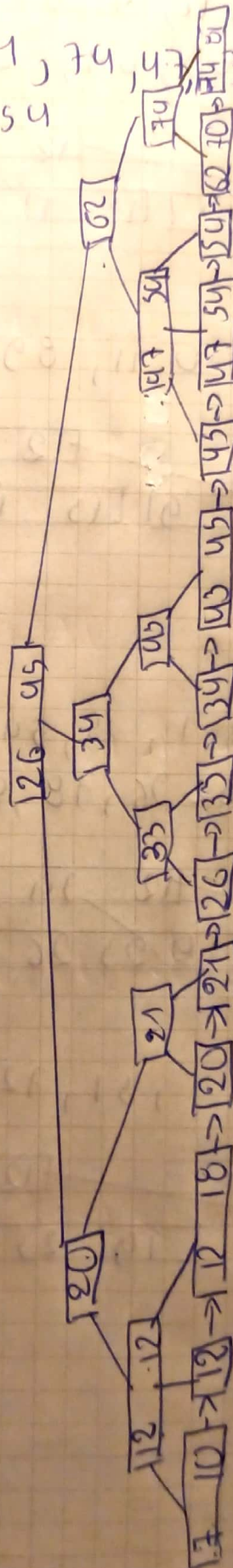
44, 87, 15, 51, 72, 34



B+

Insater

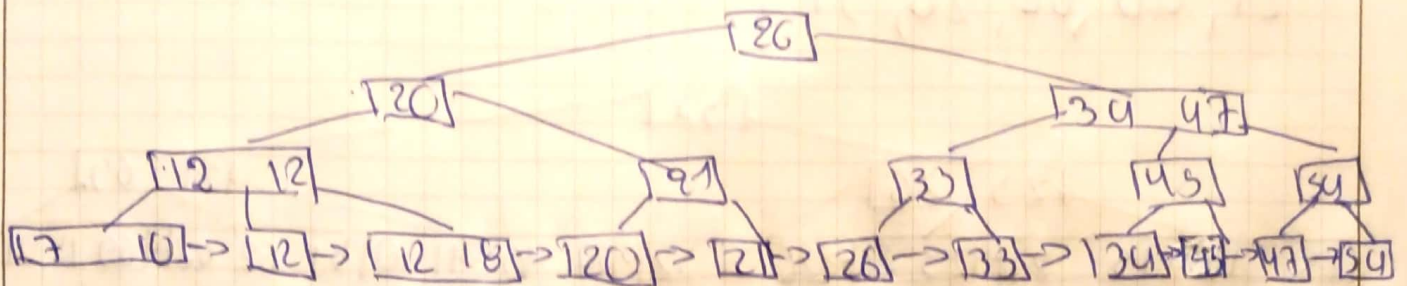
10, 20, 54, 45, 12, 12, 21, 74, 47, 33, 62, 26, 81  
18, 43, 34, 70, 7, 45, 54





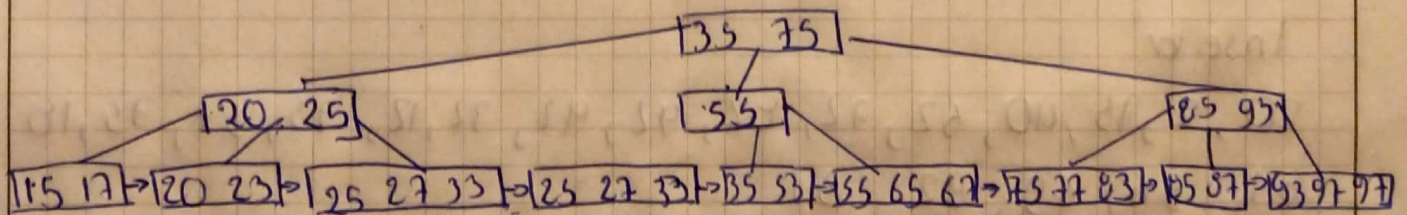
Eliminar

43, 70, 45, 74, 81, 62, 54



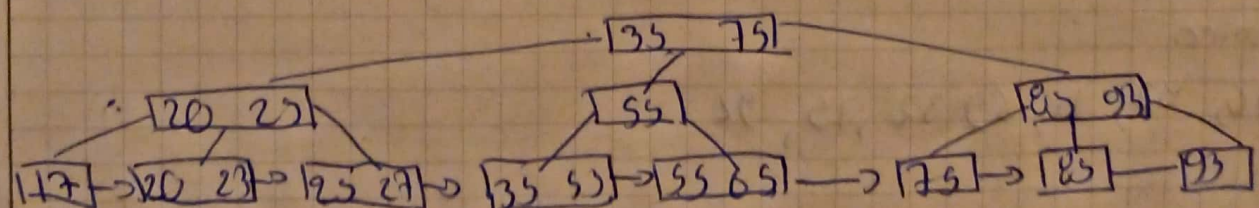
4 Grado

20, 25, 15, 75, 85, 35, 65, 77, 97, 27, 17, 33, 23, 83, 93  
53, 55, 67, 87, 97



Eliminar

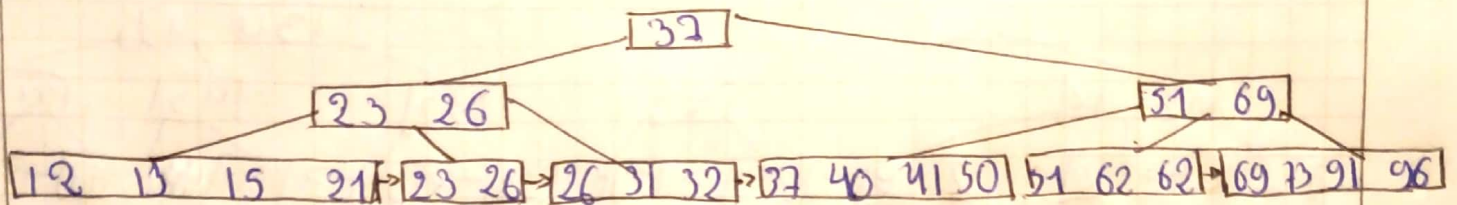
12, 15, 10, 97, 87, 67, 83, 33



5 Grado

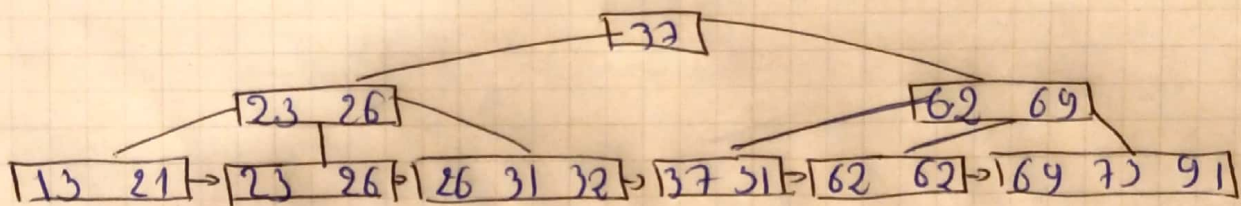
Insertar

15, 51, 62, 26, 73, 37, 41, 50, 69, 96, 32, 23, 13, 31, 12, 21, 40, 62, 26, 91



Eliminar

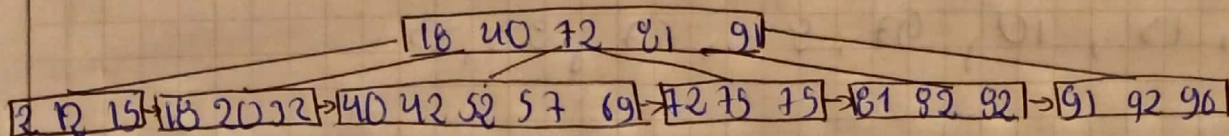
40, 50, 15, 41, 12, 96



6 Grado

Insertar

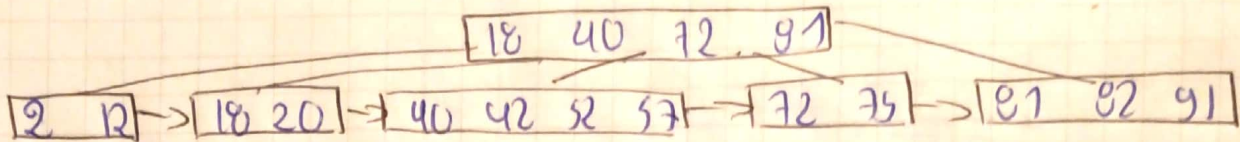
20, 2, 15, 40, 52, 72, 82, 92, 42, 32, 12, 75, 57, 75, 18, 81, 96, 69, 82, 91



Eliminar

96, 82, 75, 69 32, 15, 92



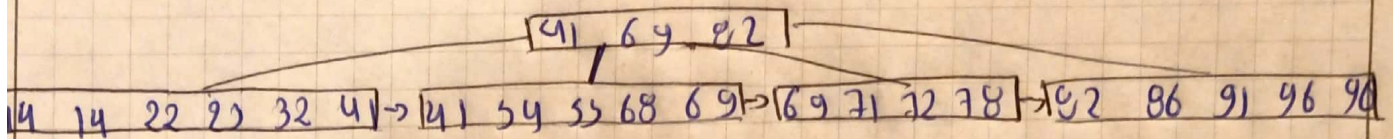


7 grado

Inserta

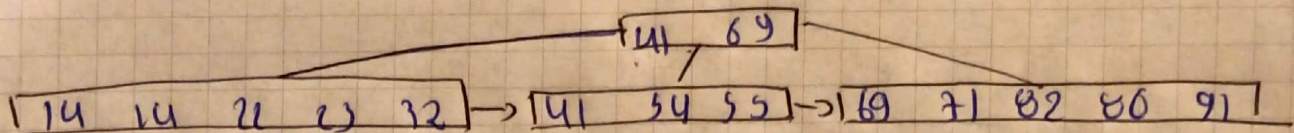
78, 86, 68, 41, 14, 32, 23, 96, 14, 41, 22, 82, 96

69, 72, 71, 69, 54, 55, 91



Elimina

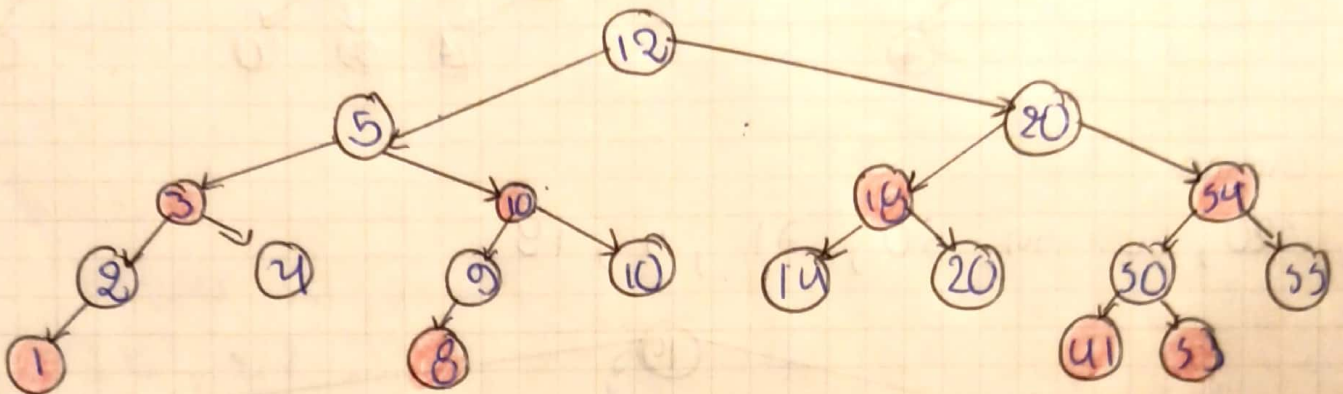
96, 78, 69, 41, 68, 72, 96



## Ejercicios Árboles rojo-negros

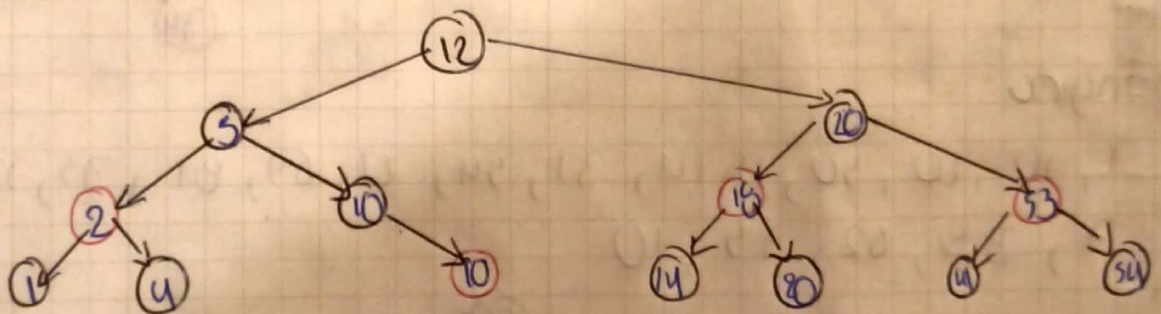
### ① Ingreso

10, 5, 4, 10, 12, 14, 10, 18, 20, 41, 9, 8, 3, 2, 1, 55, 54  
53, 50, 58



### Eliminar

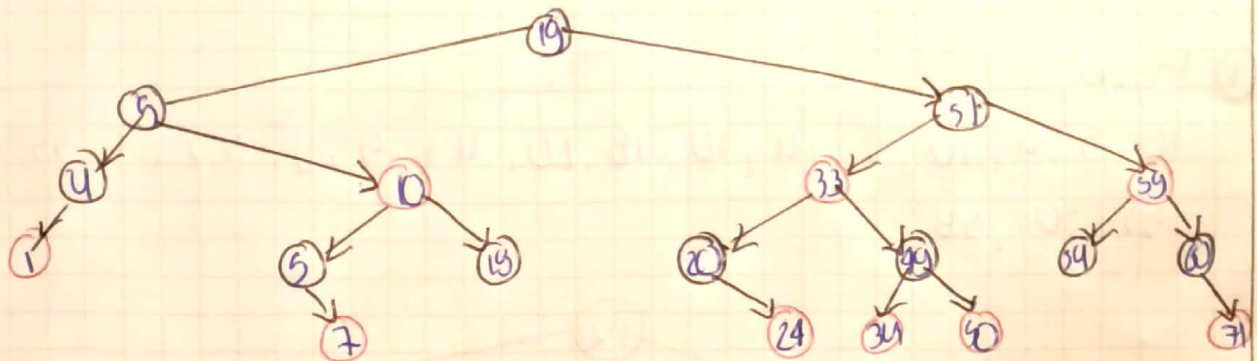
50, 58, 9, 8, 3, 55





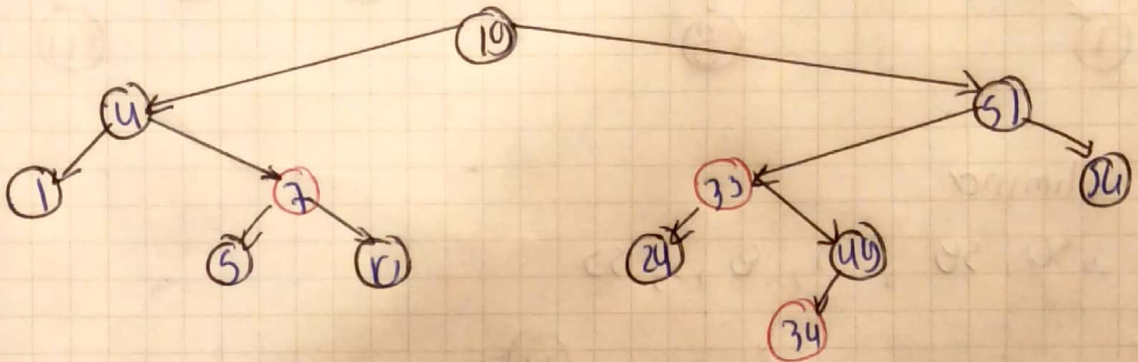
② Ingreso

20, 19, 10, 5, 4, 33, 34, 24, 18, 1, 5, 7  
54, 51, 60, 59, 50, 49, 71



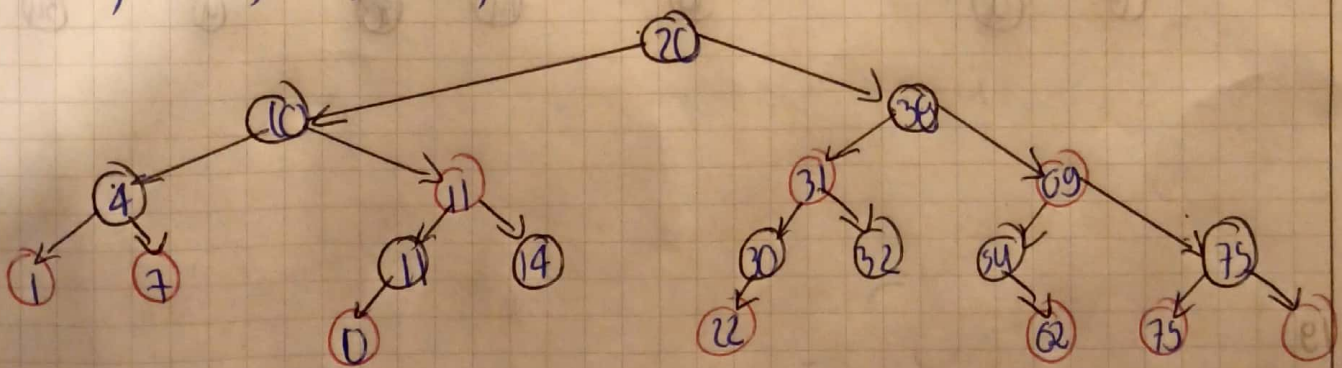
Eliminar

20, 60, 59, 50, 71, 5, 18



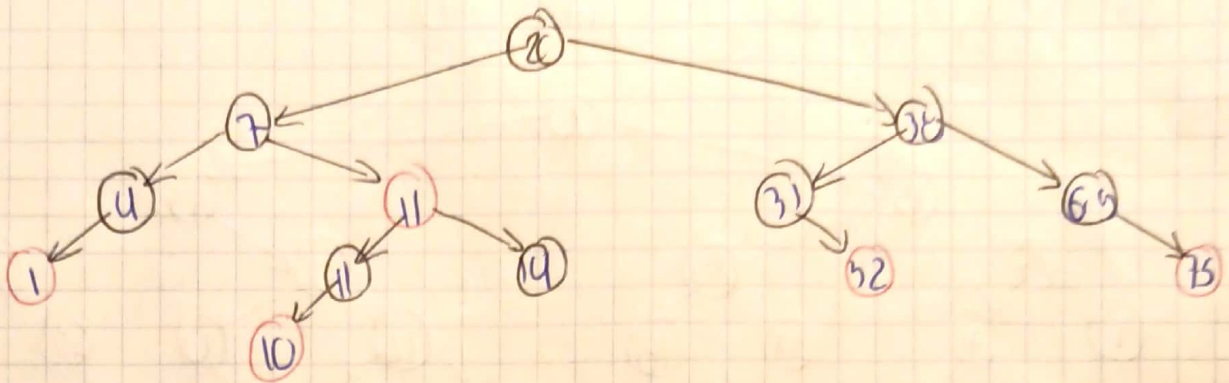
③ Ingreso

1, 10, 20, 30, 11, 14, 31, 54, 22, 69, 81, 75, 32, 4, 11  
7, 38, 62, 75, 10



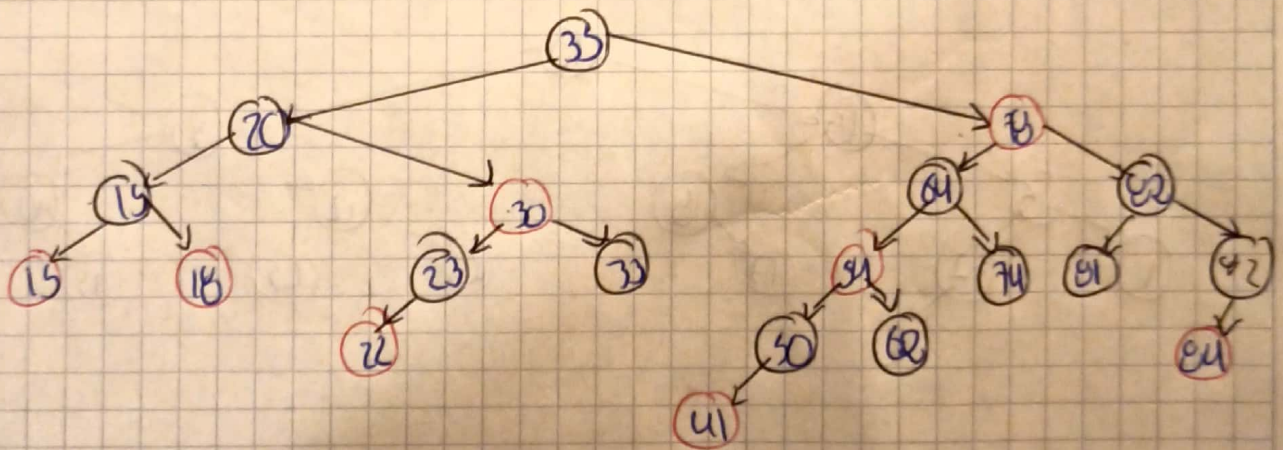
Eliminar

10, 22, 30, 54, 62, 81, 75



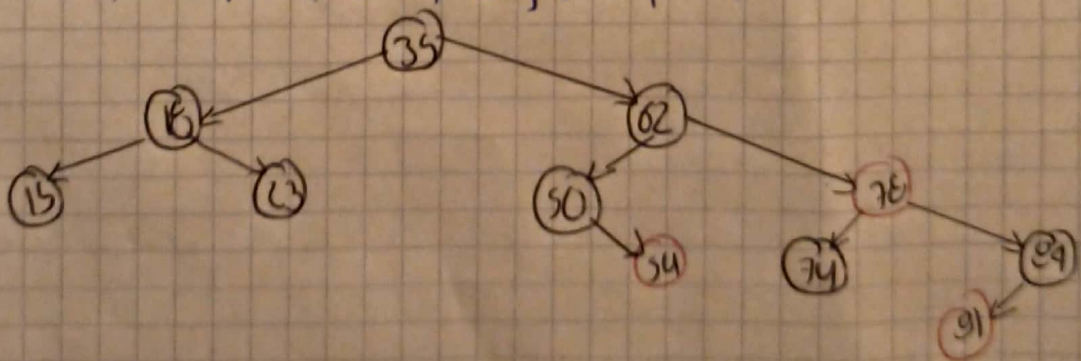
4) Insertar

15, 20, 30, 35, 62, 78, 81, 64, 33, 23, 74, 15  
18, 82, 91, 84, 54, 50, 41, 22



Eliminar

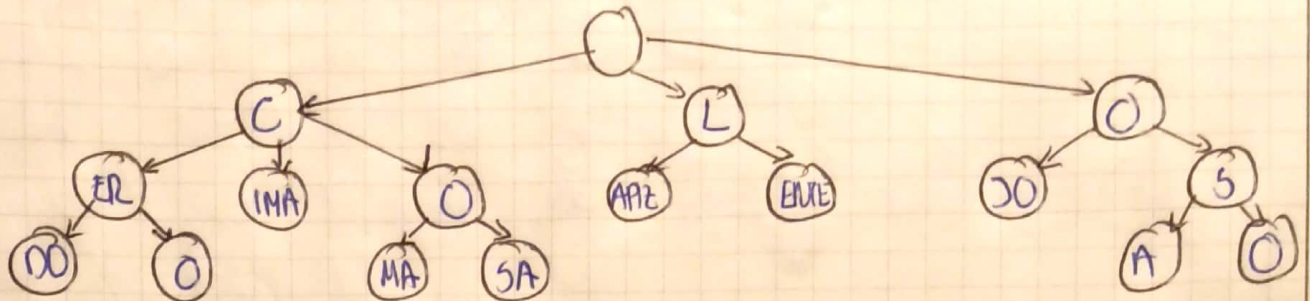
82, 64, 33, 15, 20, 30, 91, 22, 41





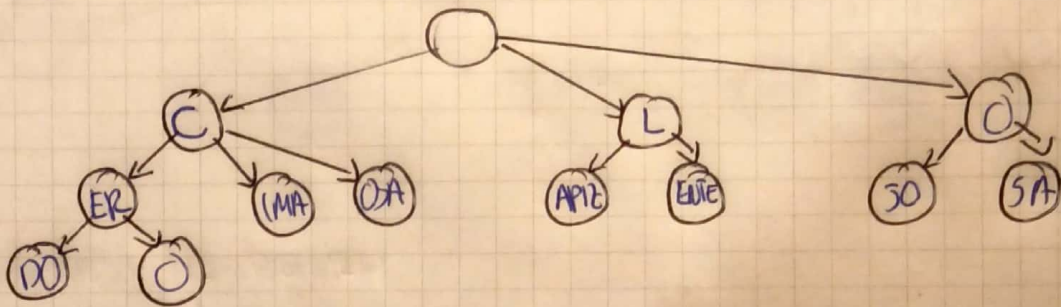
# Radix tree

oso, osa, cosa, cima, ceo, coma, celdo, lapiz  
lente, ojo

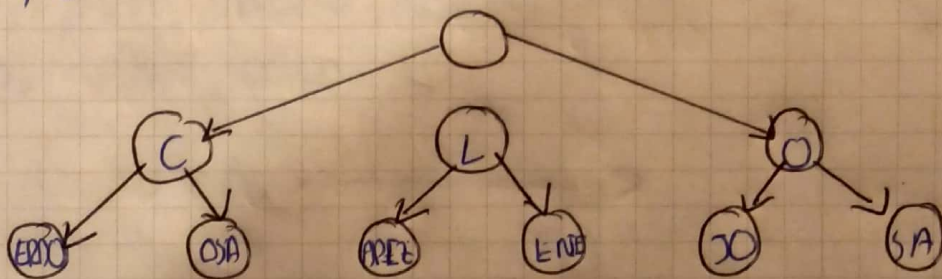


## Eliminación

oso, coma

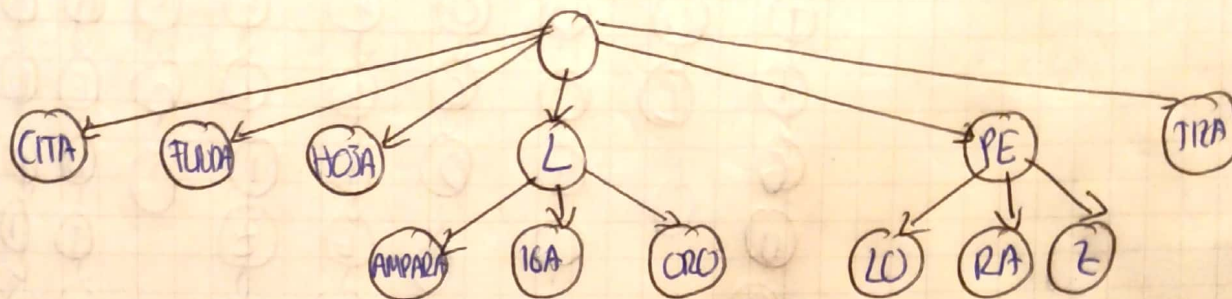


cima, ceo



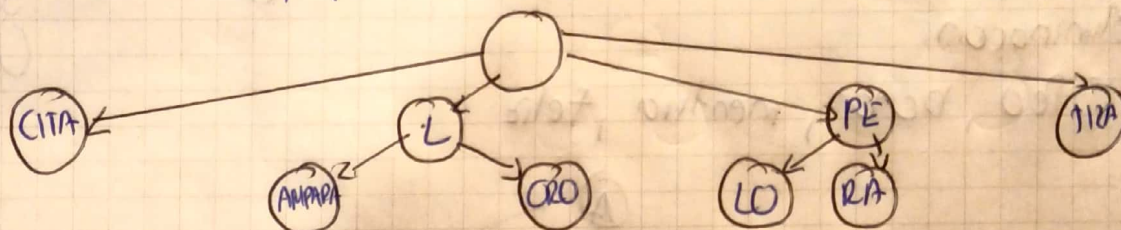
② Ingeo

pelo, peo, pez, cita, lao, lampazo, liga  
trza, hoja, funda



Eliminar

hoja, Liga, pez



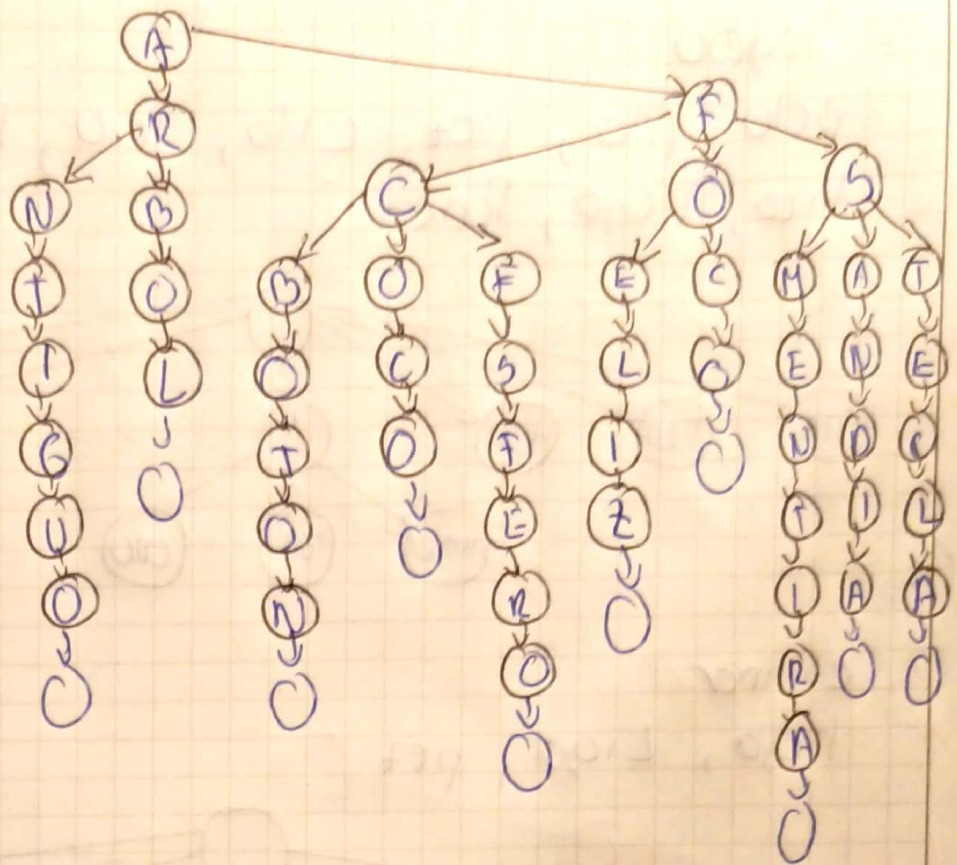
Arboles de norias

Anglex

Aibol, fero, sendra, pelre, mentira, antiguo, roco  
tecla, esfero, borbn

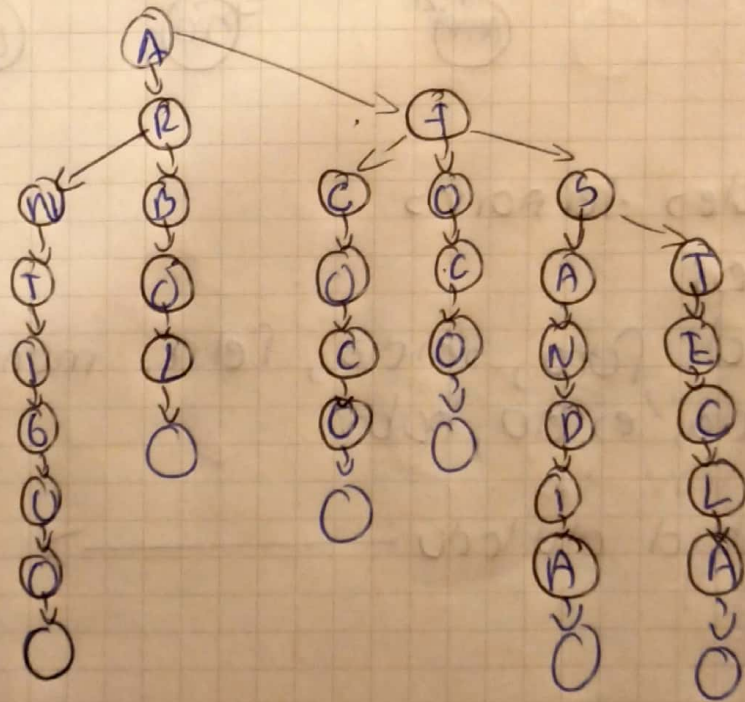
Esta el otro lado →





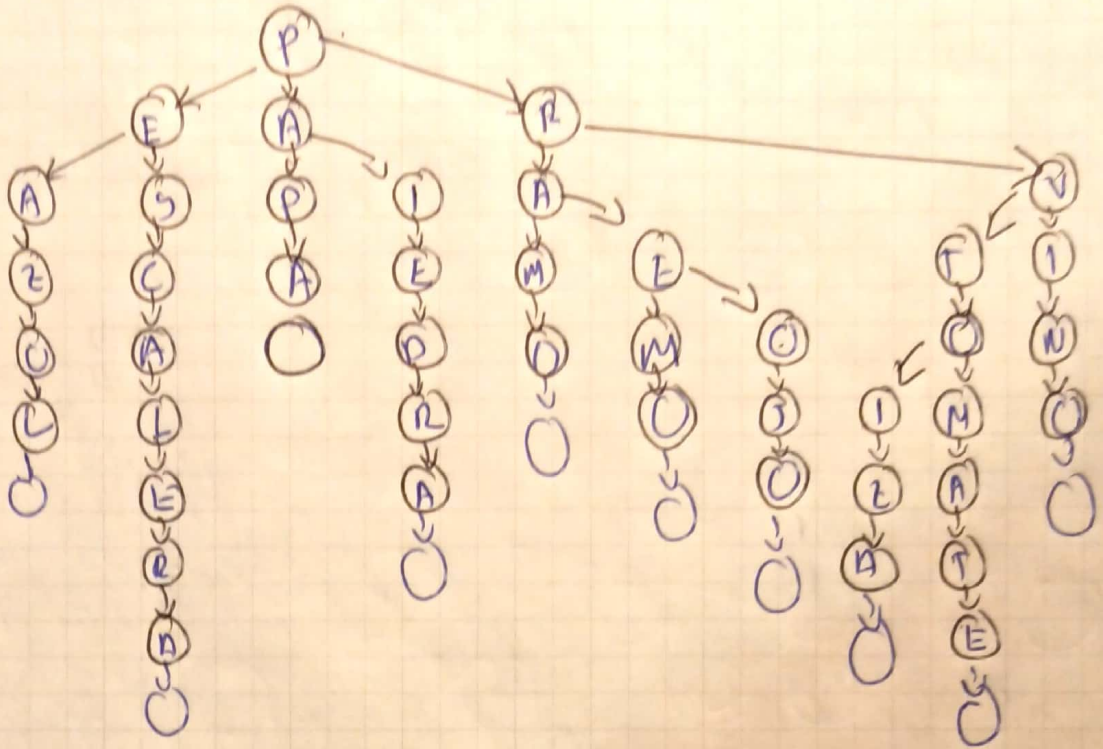
eliminacion

esfuerzo, boton, mentira, feliz



② Ingreso

papa, pidea, esceleio, izmo, iemo, vino, iogu  
azu, tomole, tizu



Elimination

funcle, endero, predia, tiza

