

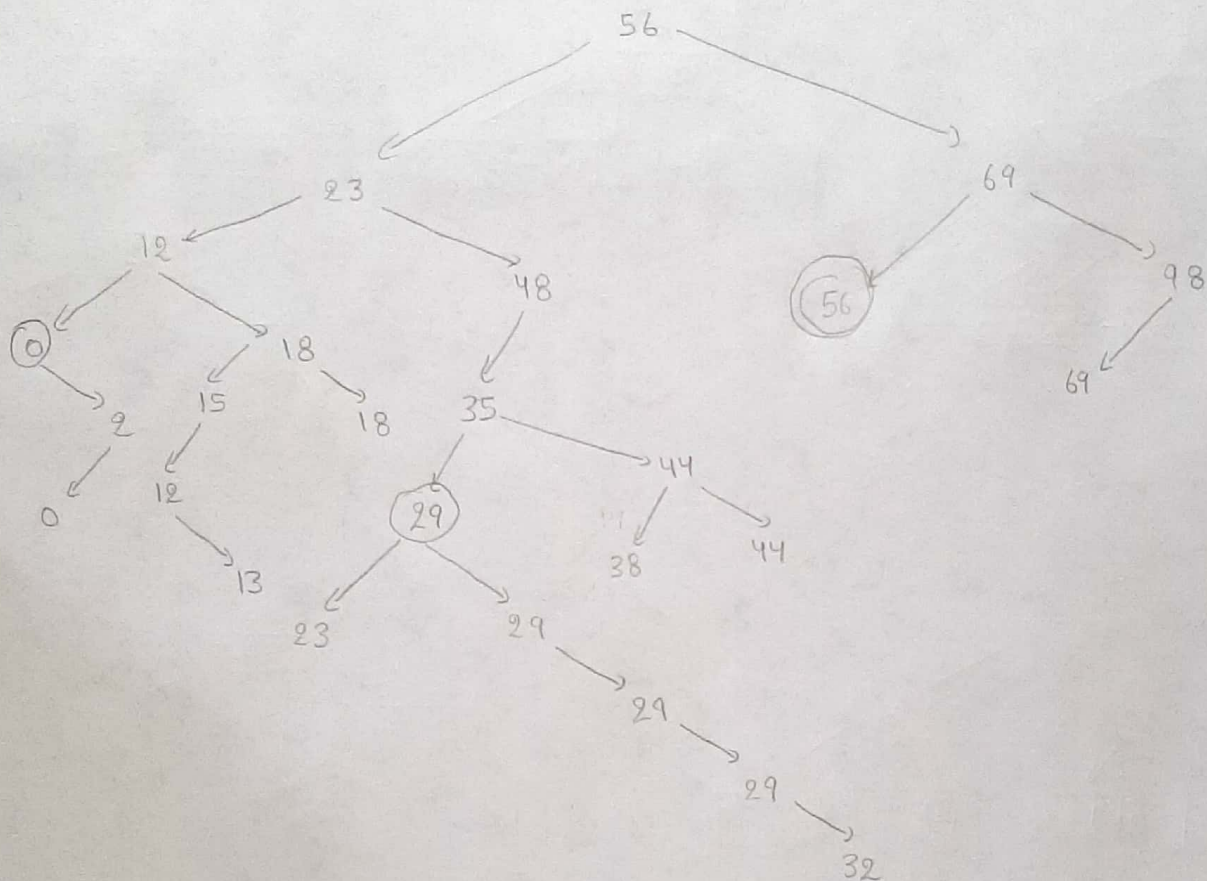
Prueba Conjunta 2º Parcial

Nombre: Kevin Chuquimarca.

56, 23, 69, 48, 35, 29, 12, 29, 18, 29, 56, 44, 38, 98, 69, 23, 29, 44, 0
2, 18, 15, 32, 0, 12, 13

1º Pregunta.

Elaborar un arbol binario y sus recorridos en in, pos, pre.



Recorridos.

inorden: 0, 0, 2, 12, 12, 13, 15, 18, 18, 23, 23, 29, 29, 29, 29, 32, 35, 38, 44, 44, 48, 56, 56, 69, 69, 98

Preorden: 56, 23, 12, 0, 2, 0, 18, 15, 12, 13, 18, 48, 35, 29, 23, 29, 29, 29, 32, 44, 38, 44, 69, 56, 98, 69

posorden: 0, 2, 0, 13, 12, 15, 18, 18, 12, 23, 32, 29, 29, 29, 29, 38, 44, 44, 35, 48, 23, 56, 69, 98, 69, 56

2º Pregunta.

Determinar la profundidad y el nivel y como se saca.

Profundidad: 8

Niveles del arbol: 0, 1, 2, 3, 4, 5, 6, 7, 8

Profundidad: camino único de la raíz a las hojas en base al mayor número de flechas / recorridas

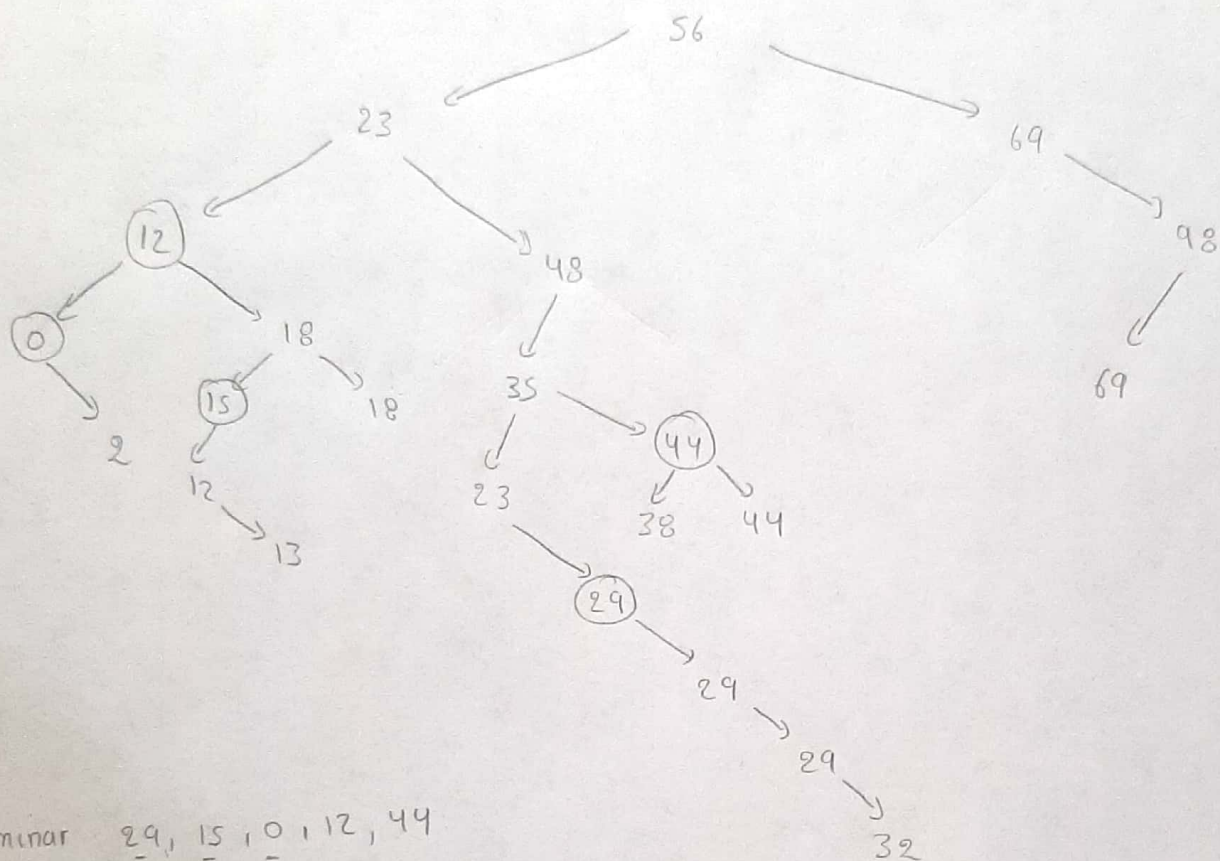
Arbol binario 1

4º Pregunta.

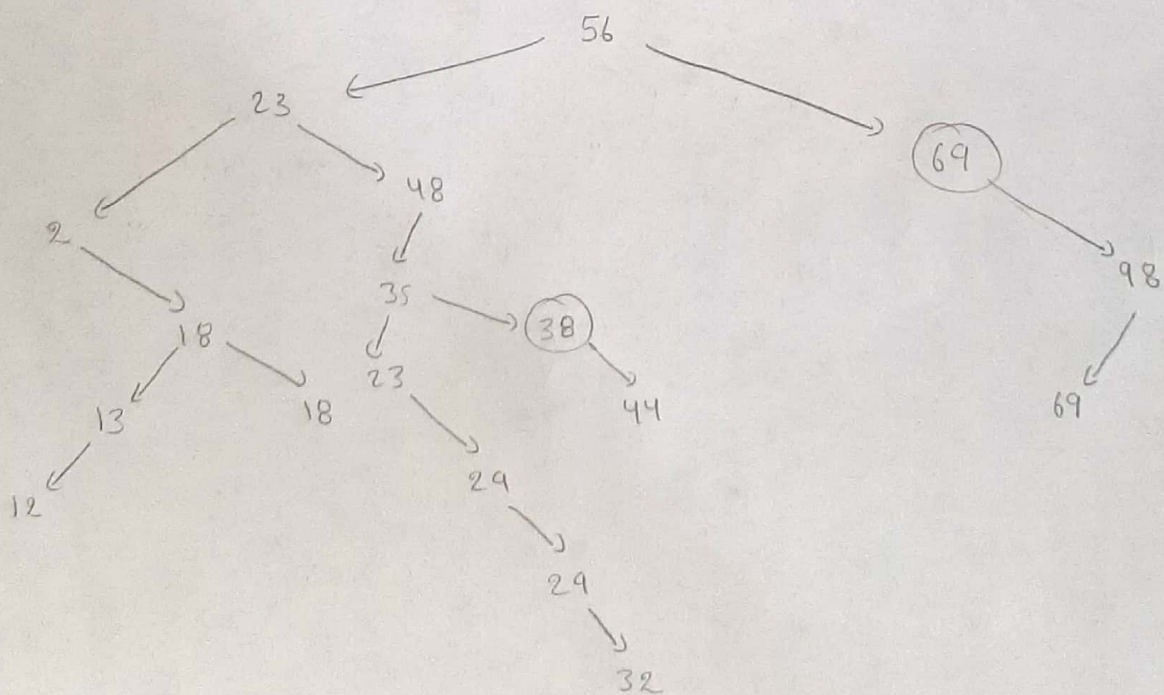
Eliminar Arbol binario

0, 29, 56, 23, 15, 0, 12, 44, 38, 69

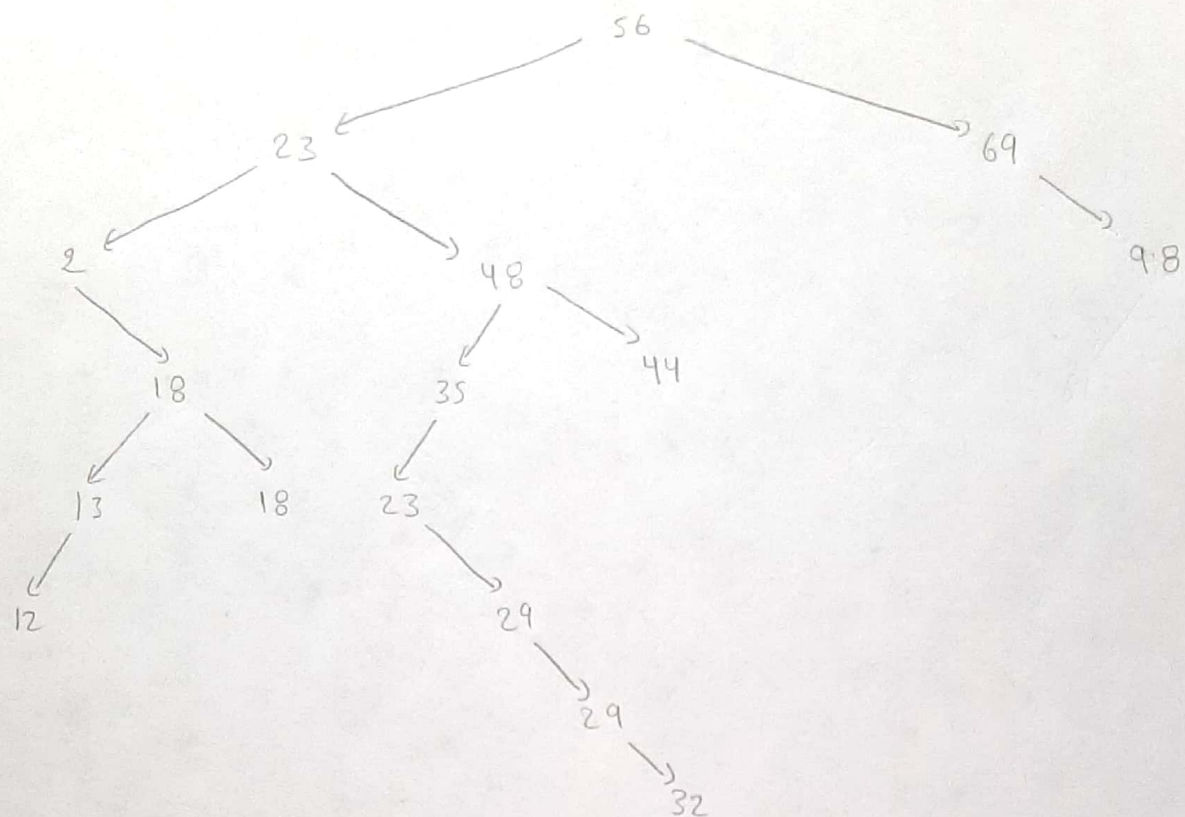
Eliminar 0, 29, 56



Eliminar 29, 15, 0, 12, 44



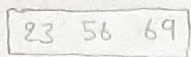
Eliminar 38, 69



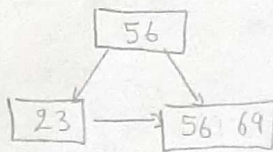
3º Pregunta.

Con los mismos números crear un árbol B⁺ de Grado 3.

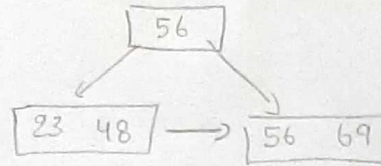
Paso 1



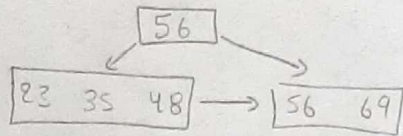
Paso 2



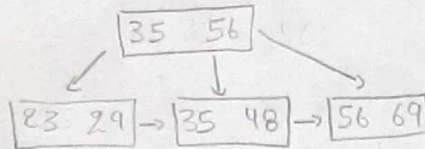
Paso 3



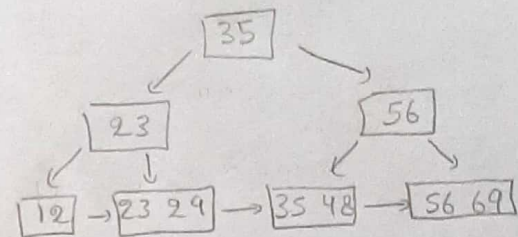
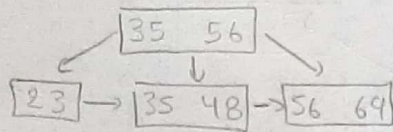
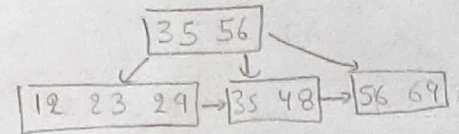
Paso 4.



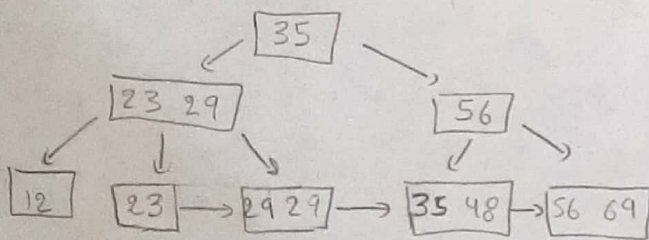
Paso 5



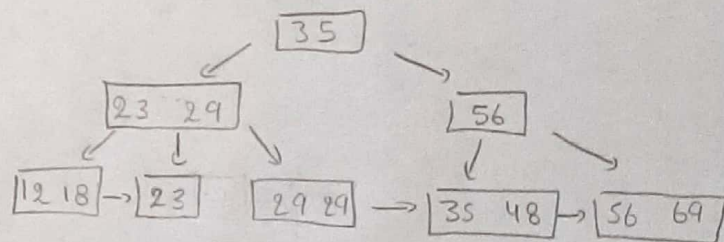
Paso 6



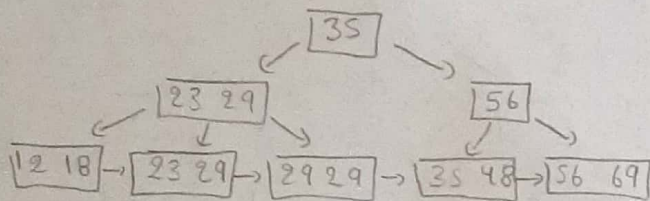
Paso 7



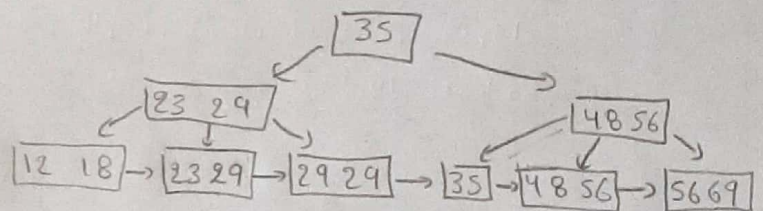
Paso 8



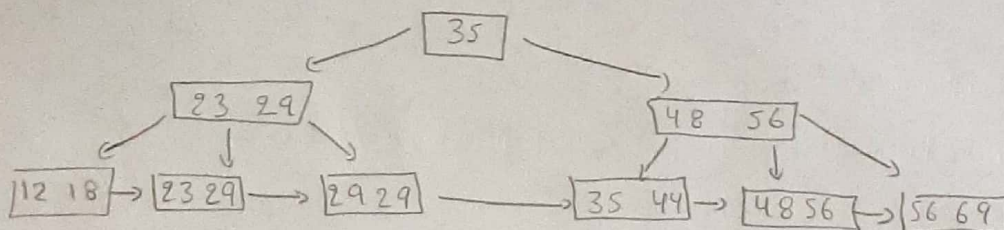
Paso 9



Paso 10

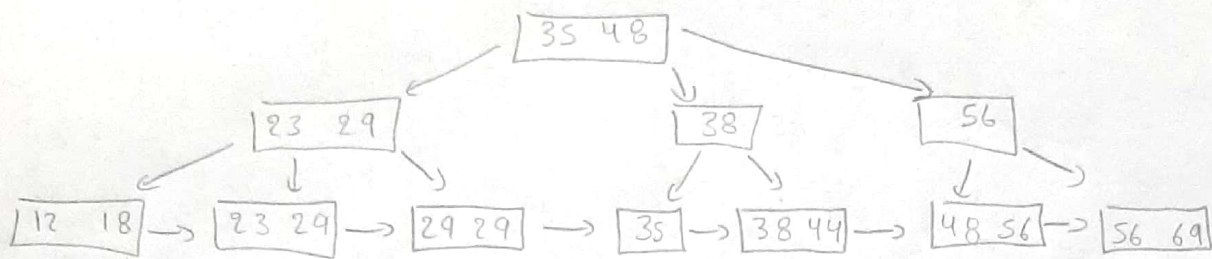


Paso 11

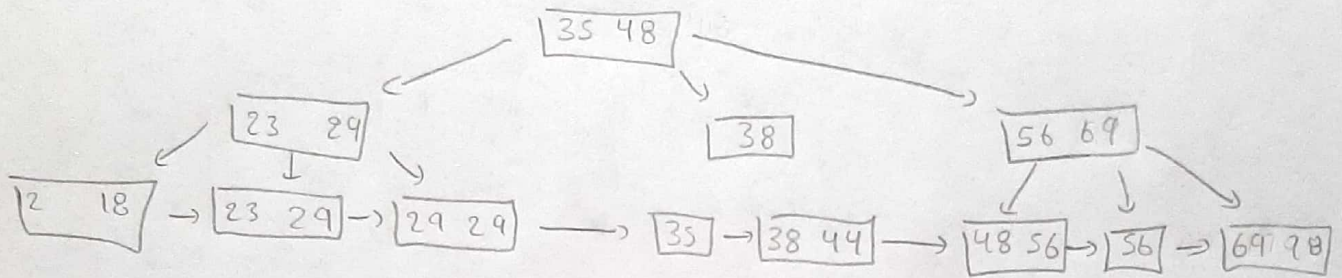


Árbol B⁺ 1

Paso 12



Paso 13



Arbol B+ 2