

Soleya, 07 de octubre de 2023

Universidad Mexicana Qilvet de Guatemala.

Matemática Discreta.

Kevin José Gutiérrez Linares.

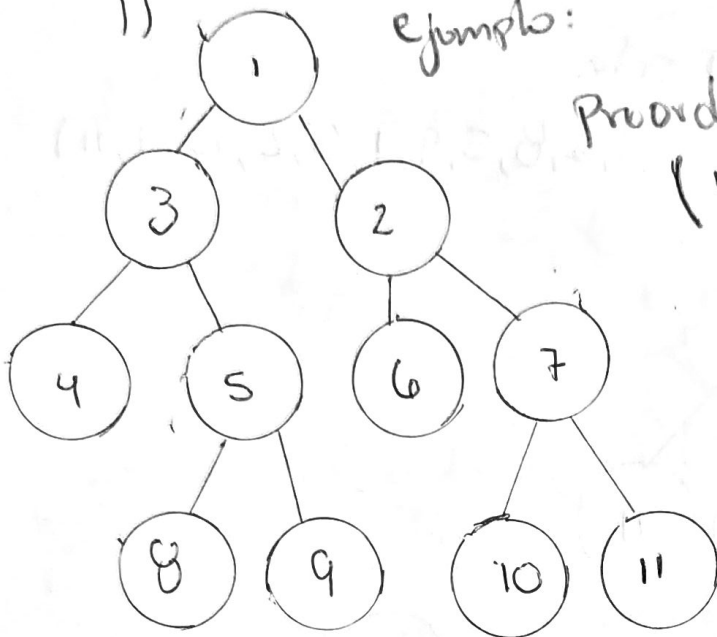
0907-23-1166.

Árboles Binarios

* Recorrido Preorden (Izquierda, Derecha)

1)

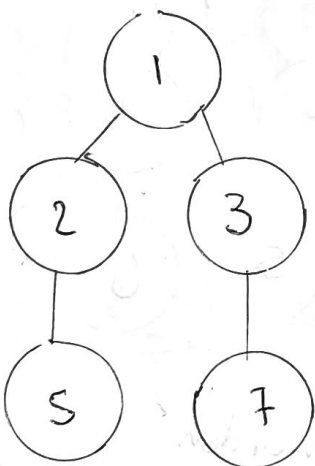
Ejemplo:



Preorden =

(1, 3, 4, 5, 8, 9, 2, 6, 7, 10, 11)

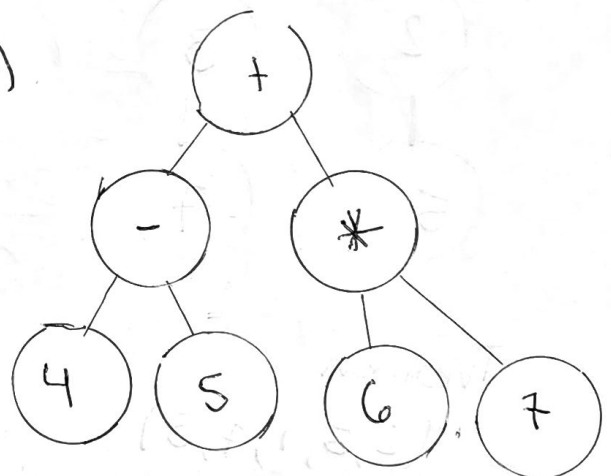
2)



Pre orden

(1, 2, 5, 3, 7)

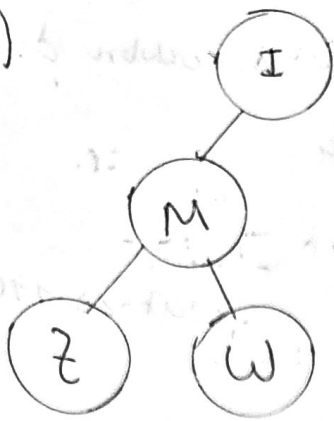
3)



Pre orden

(+, -, 4, 5, *, 6, 7)

4)

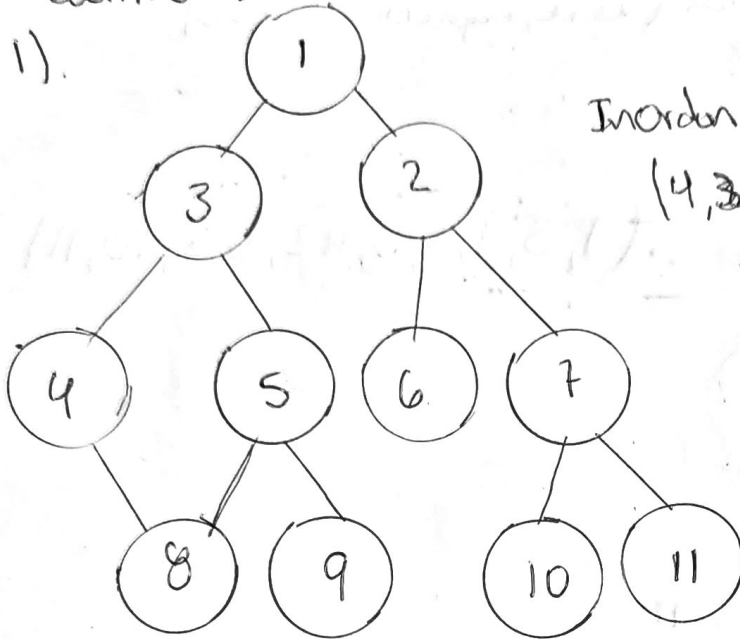


Preorder

(I, M, z, w)

* Recursive Inorder (Left, Root, Right)

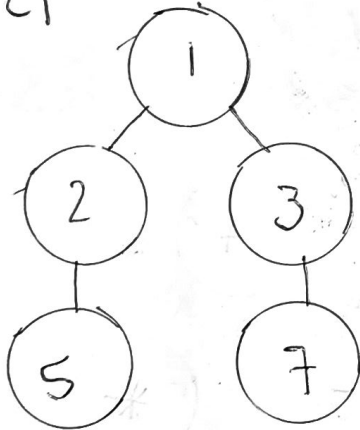
1).



Inorder

(4, 8, 5, 9, 1, 6, 2, 10, 7, 11)

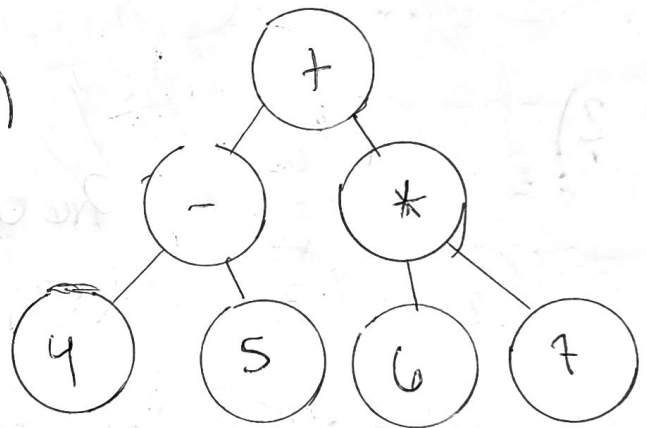
2)



Inorder

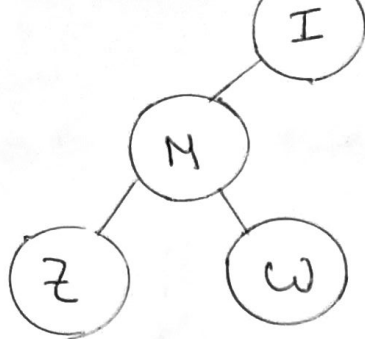
(2, 5, 1, 7, 3)

3)



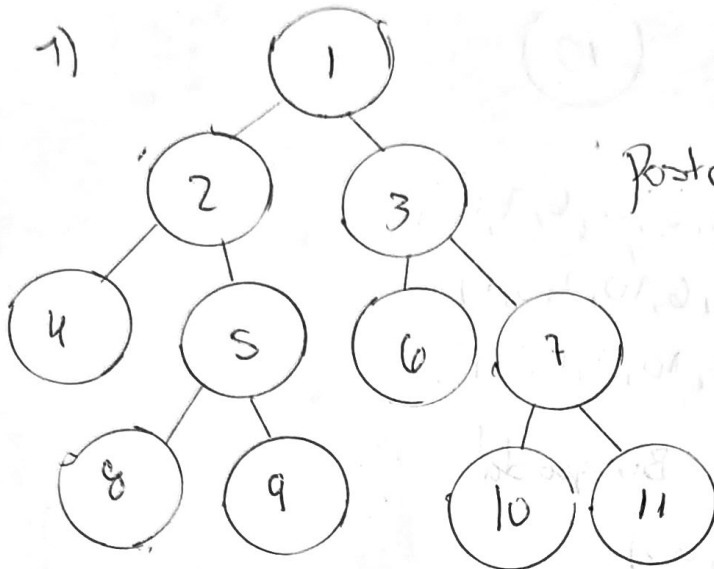
Inorder

(4 - 5 + 6 * 7)

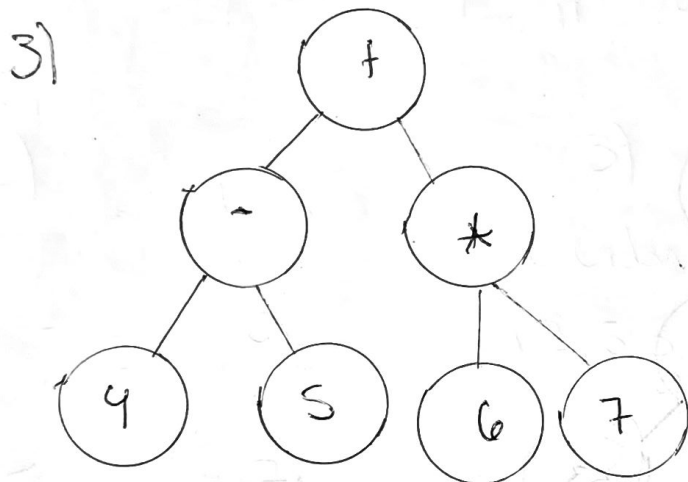


Inorden:
(Z, M, W, I).

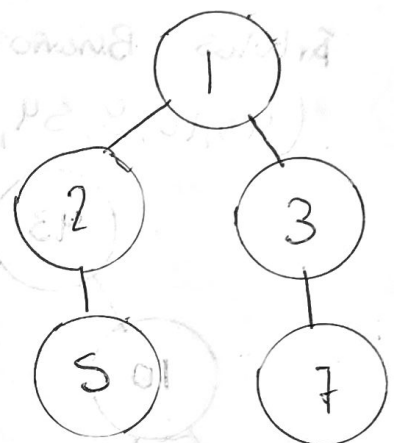
* Recuerda postorden (Izquierda, Derecha, Raíz).



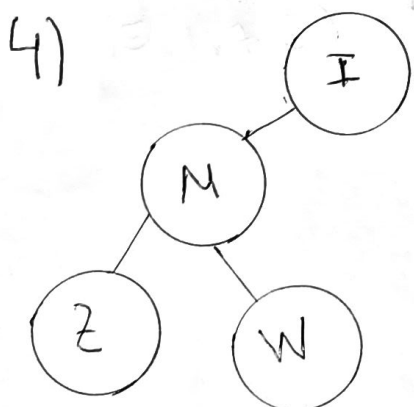
Postorden:
(4, 8, 9, 5, 2, 6, 10, 11, 7, 3, 1)



Postorden:
(4, 5, -, 6, 7, *, +)

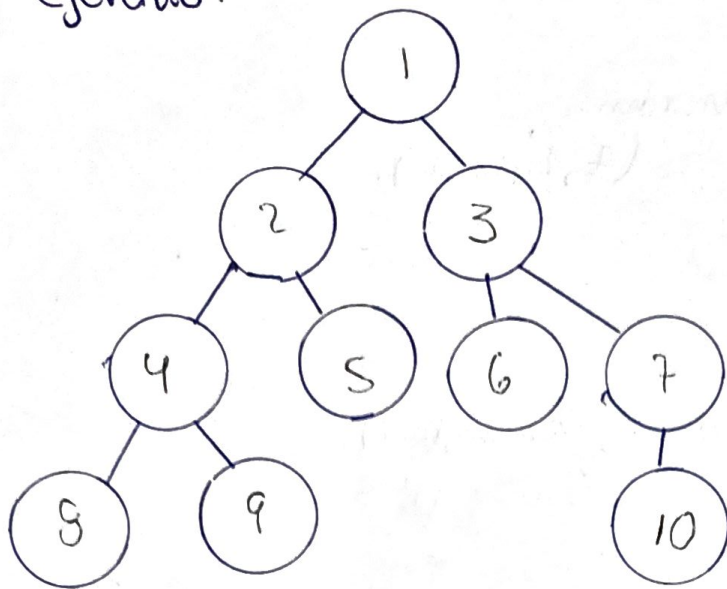


Post orden:
(5, 2, 7, 3, 1)



Postorden:
(Z, W, M, I)

Ejercicio:



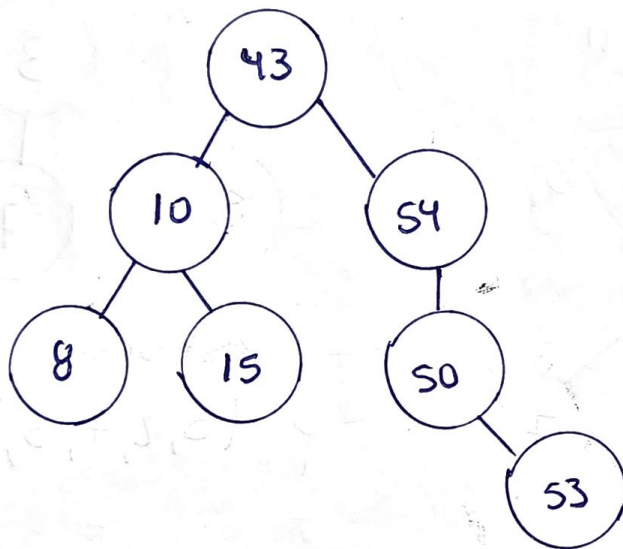
Preorden = (1, 2, 4, 8, 9, 5, 3, 6, 7, 10)

Postorden = (8, 9, 4, 5, 2, 6, 10, 7, 3, 1)

Inorden = (8, 9, 4, 2, 5, 1, 10, 7, 6, 3)

Árboles Binarios de Búsqueda.

(43, 10, 8, 15, 54, 50, 53)



Inorden:

(8, 10, 15, 43, 50, 53, 54)

Ejercicio #2:

(80, 4, 91, 77, 69, 10, 96, 99, 22)

