

① A)

Breadth First (level order)

45, 15, 79, 10, 20, 55, 90, 10, 50

Depth First

① Pre order: root left right

45, 15, 10, 10, 20, 79, 55, 50, 90

② In-order: left root right

10, 10, 15, 20, 45, 50, 55, 79, 90

③ Post-order: left right root

10, 10, 20, 15, 50, 55, 90, 79, 45

B) *level Zero, level one, two, three.

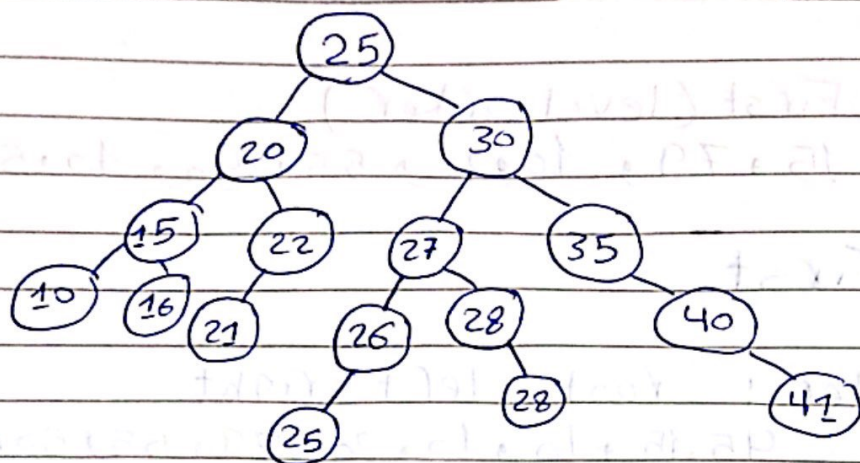
*Binary search tree

*leaves: 10, 20, 50, 90

*all siblings (15, 79) و (10, 20) و (55, 90)

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(2) (a)



(b) Yes, there is a Pattern, It seems we describe numbers in Ascending order which we use (Depth First-Inorder)