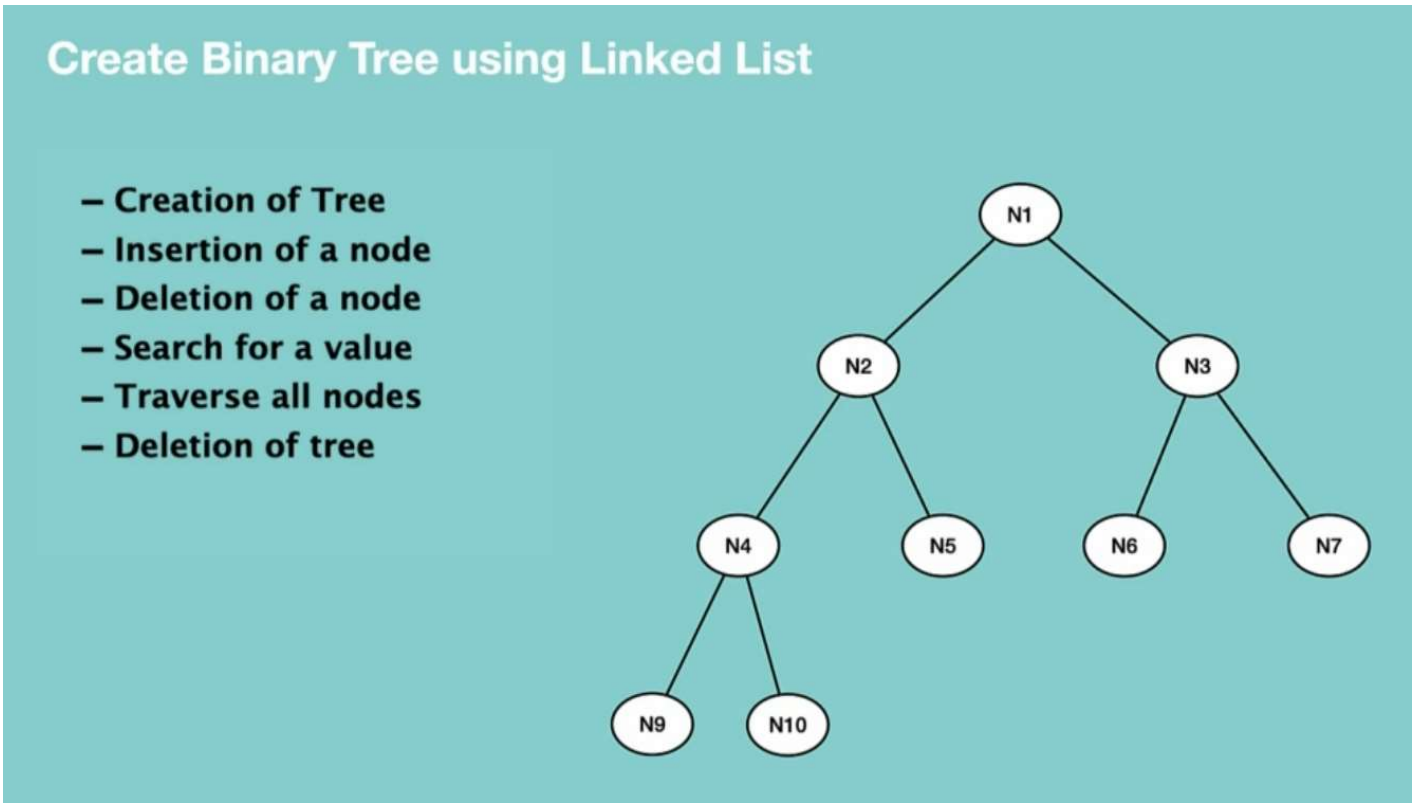
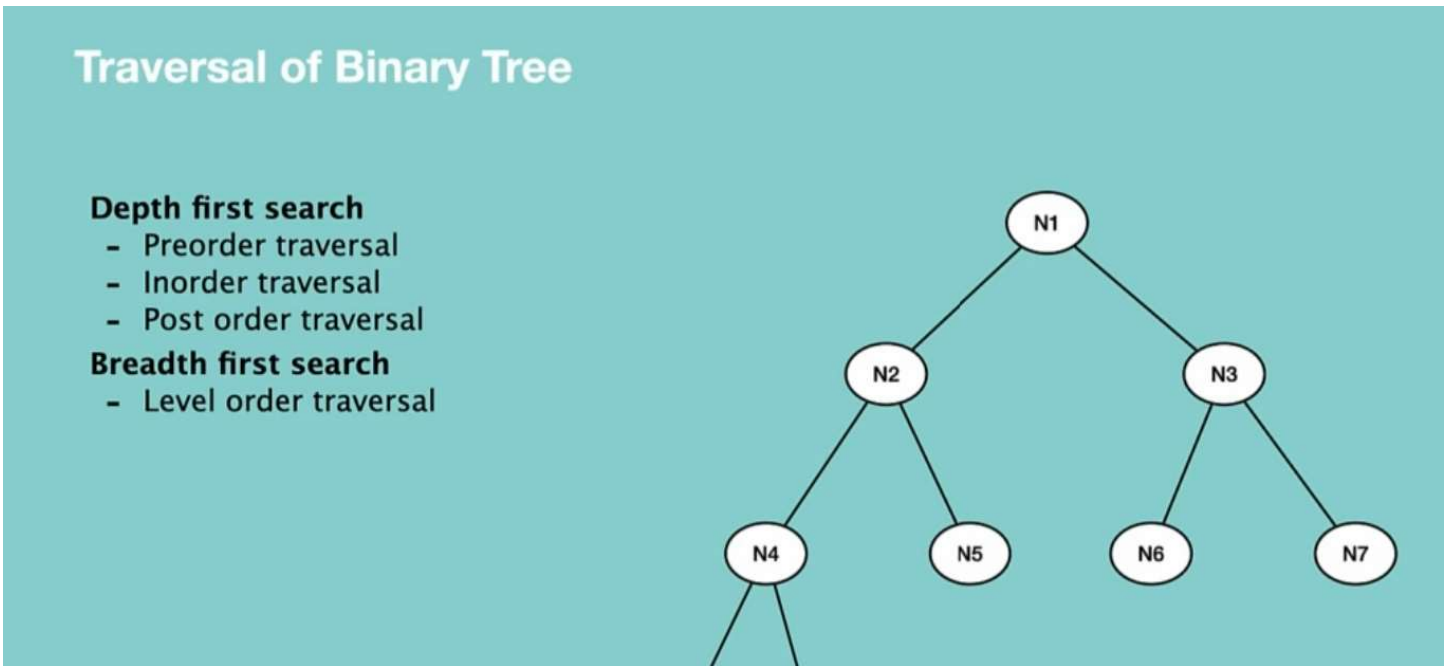
13-3 BINARY TREES USING LINKED LIST

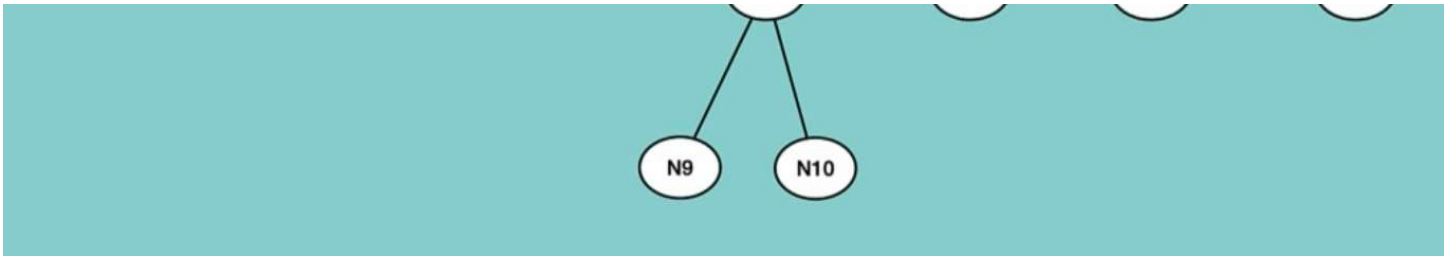
Saturday, June 4, 2022 1:07 PM

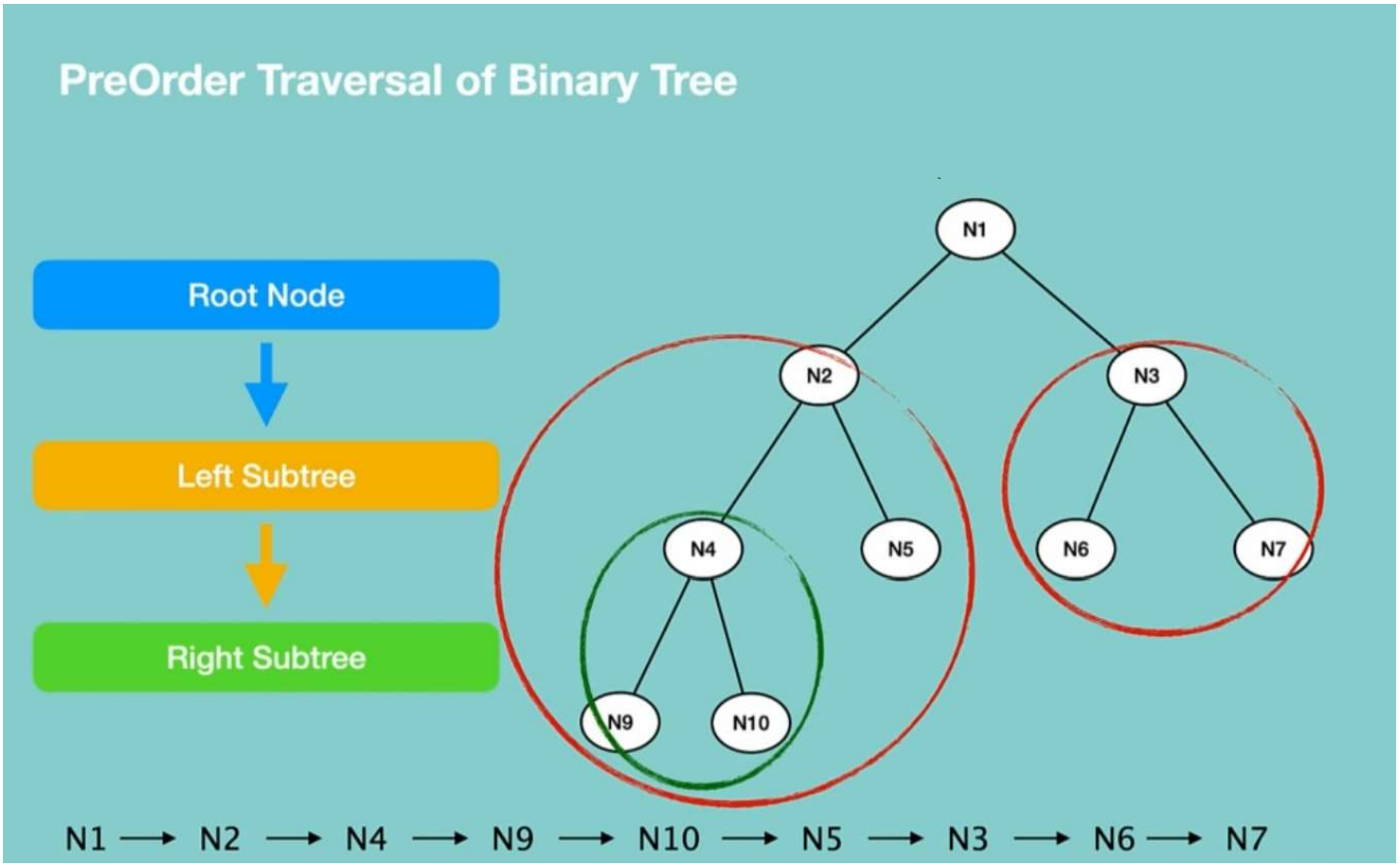


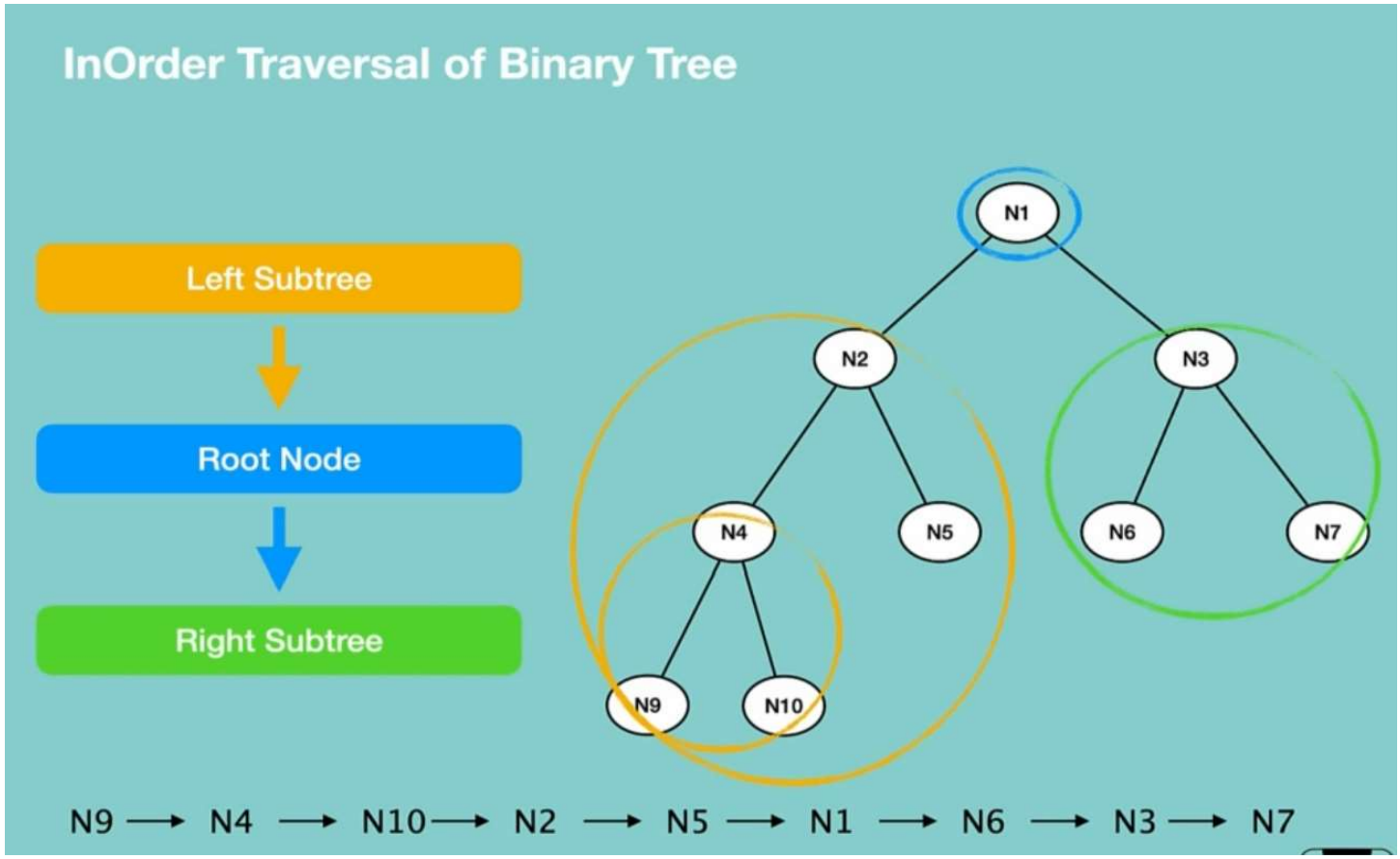
1) CREATION OF A BINARY TREE

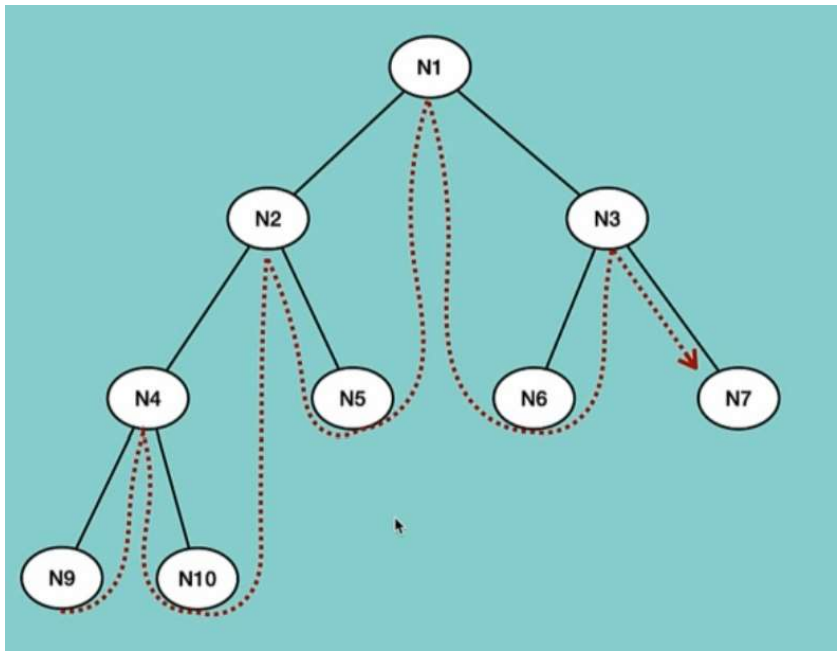
```
newTree = Tree()
```

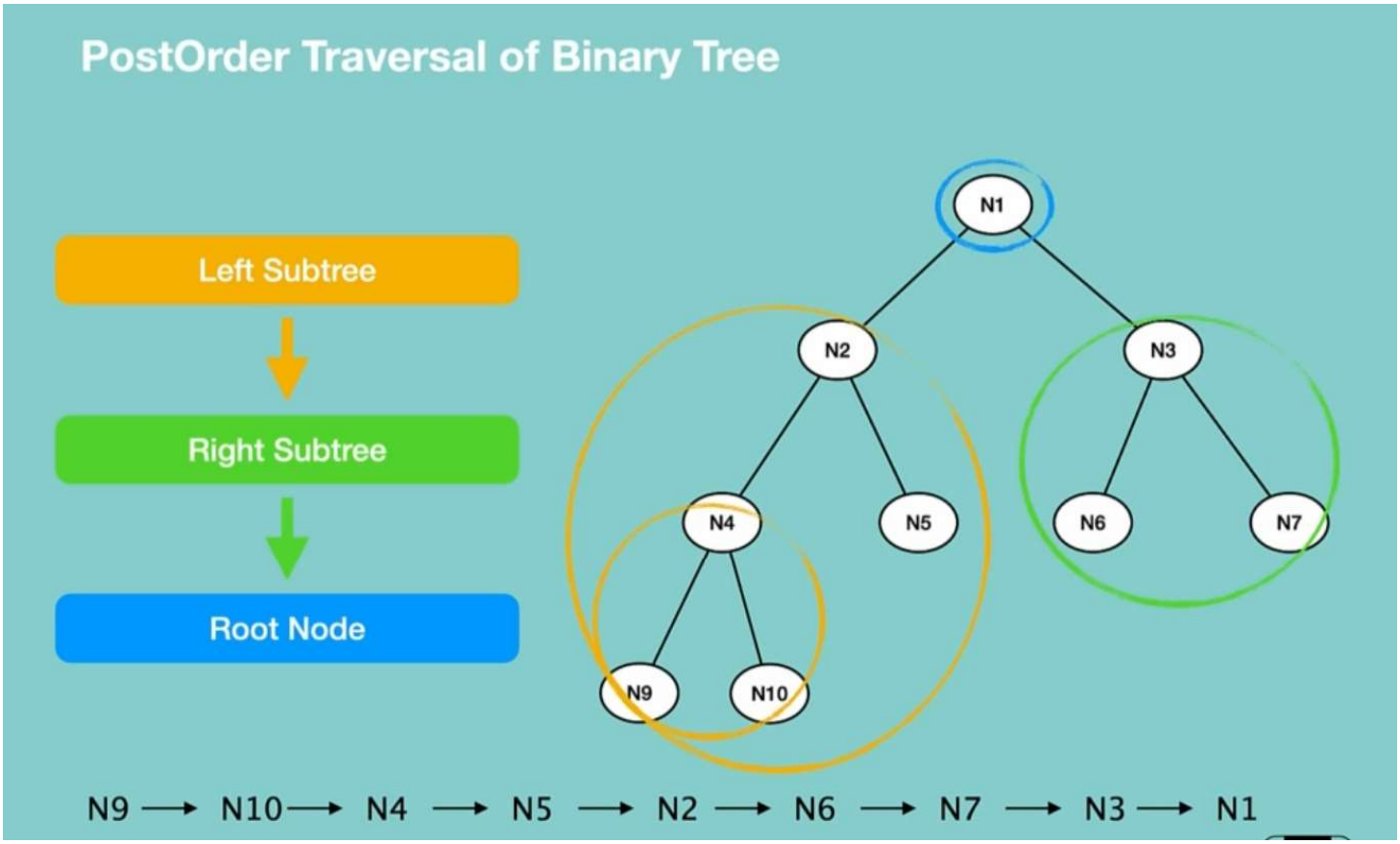


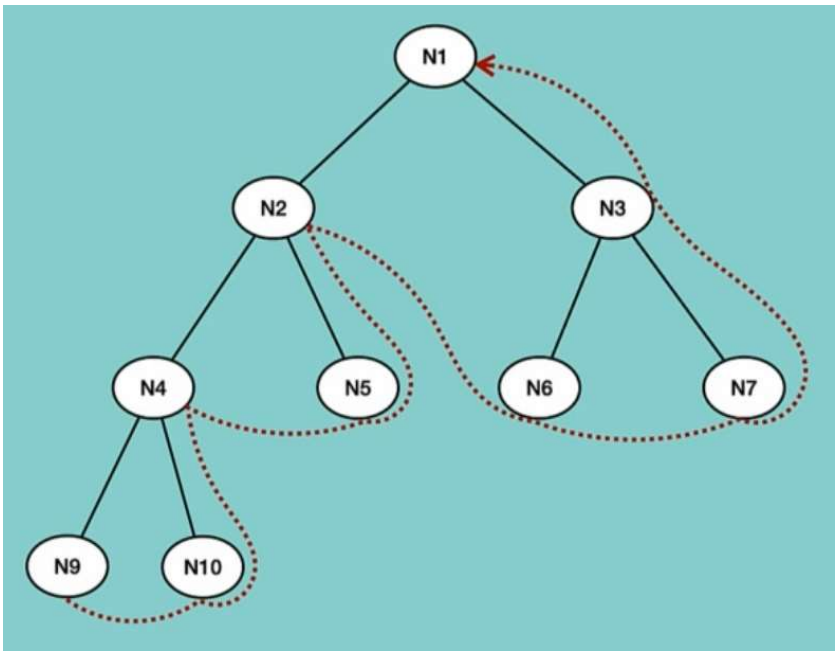

N9
N10

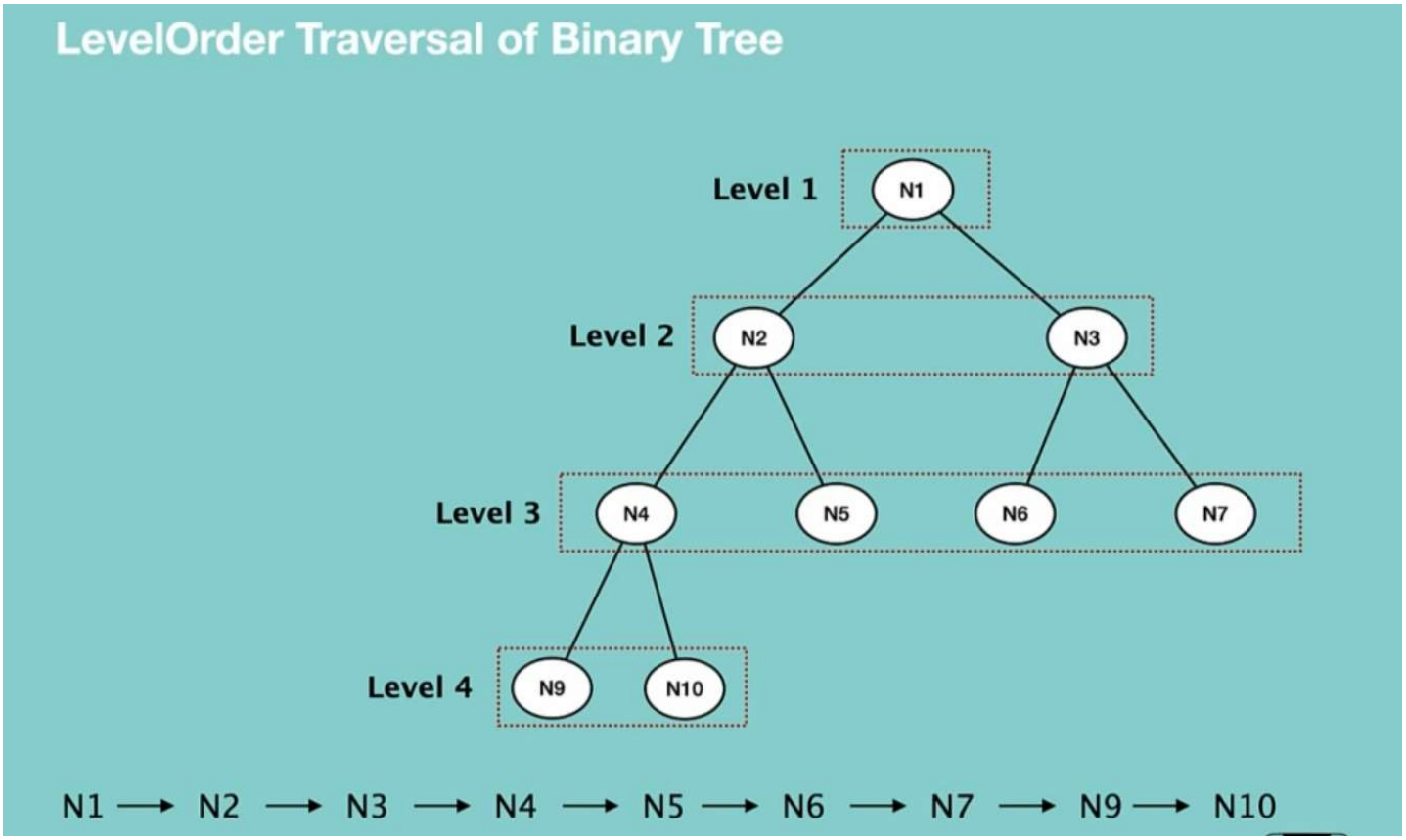

PreOrder Traversal of Binary Tree
Root Node
Left Subtree
Right Subtree
N1
N2
N3
N4
N5
N6
N7
N9
N10
N1 → N2 → N4 → N9 → N10 → N5 → N3 → N6 → N7

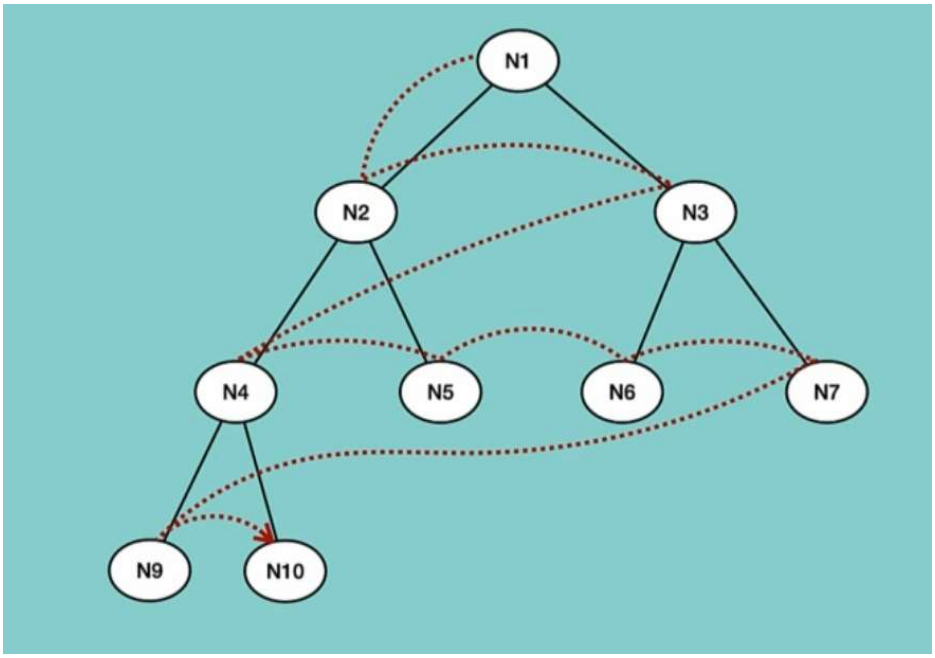

InOrder Traversal of Binary Tree
Left Subtree
Root Node
Right Subtree
N1
N2
N3
N4
N5
N6
N7
N9
N10
N9 → N4 → N10 → N2 → N5 → N1 → N6 → N3 → N7


N1
N2
N3
N4
N5
N6
N7
N9
N10


PostOrder Traversal of Binary Tree
Left Subtree
Right Subtree
Root Node
N1
N2
N3
N4
N5
N6
N7
N9
N10
N9 → N10 → N4 → N5 → N2 → N6 → N7 → N3 → N1


N1
N2
N3
N4
N5
N6
N7
N9
N10


LevelOrder Traversal of Binary Tree
Level 1
N1
Level 2
N2
N3
Level 3
N4
N5
N6
N7
Level 4
N9
N10
N1 → N2 → N3 → N4 → N5 → N6 → N7 → N9 → N10


N1
N2
N3
N4
N5
N6
N7
N9
N10