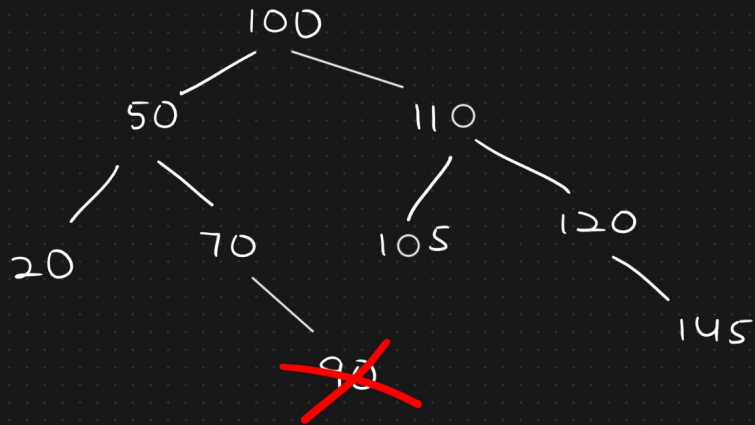


Deletion in BST

100, 110, 50, 70, 120, 90, 145, 105, 20

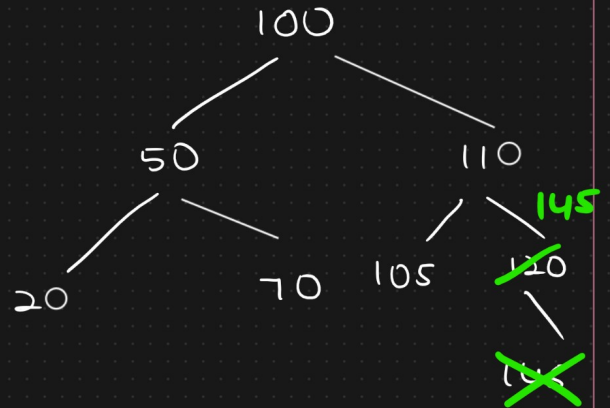


1) Delete a node \rightarrow no child
(leaf node)

Delete (90)

1) Search \rightarrow 90

2) Delete 90



2) Delete a node \rightarrow one child

1) search \rightarrow 120

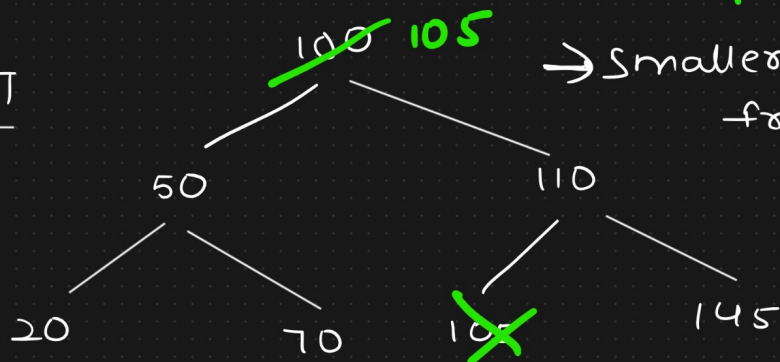
2) Delete (120)

temp = 145

Inorder Successor



Valid BST



\rightarrow Smaller value
from right
subtree

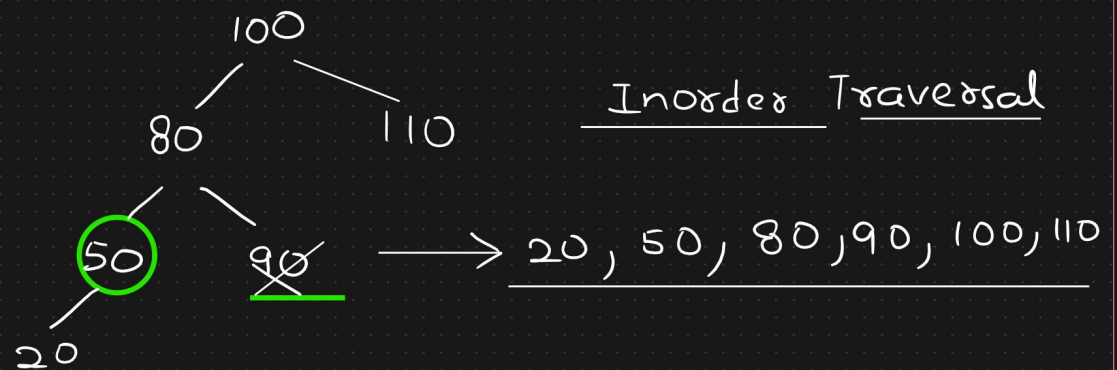
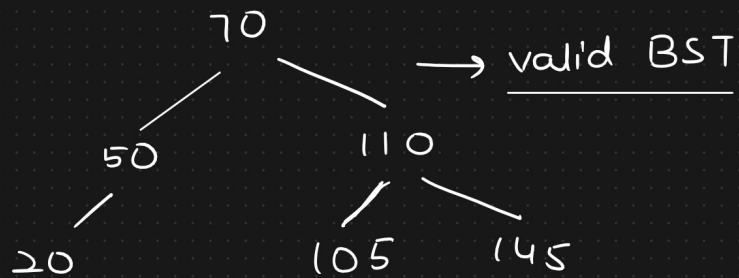
**Inorder
Predecessor**

\rightarrow Larger value
in left subtree

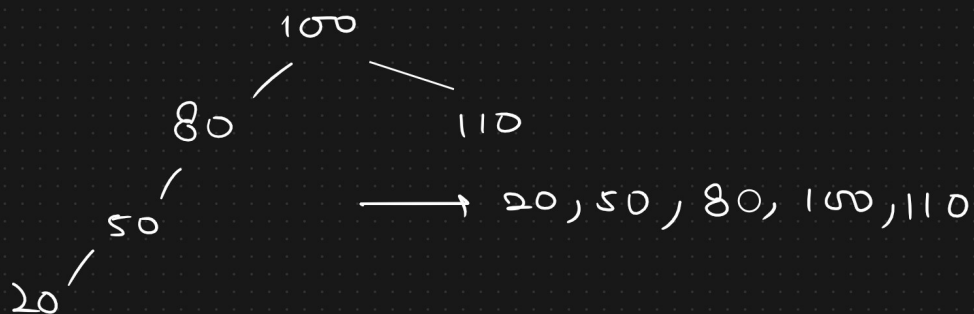
3) Delete a node \rightarrow two child

Delete(100)

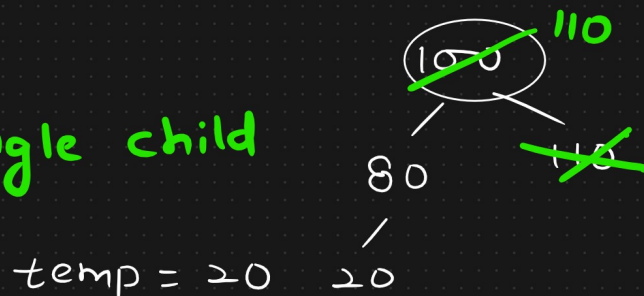
OR



1) Delete(90) — No child



2) Delete(50) — single child



\rightarrow 20, 80, 100, 110

3) Delete(100) - Two child

20, 80, 110