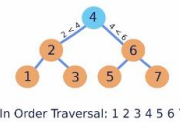
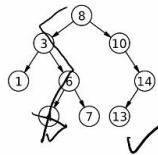


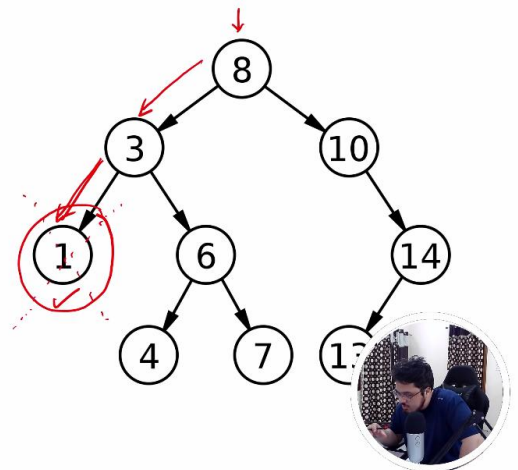
# Deleting a node in a BST

By CodeWithHarry



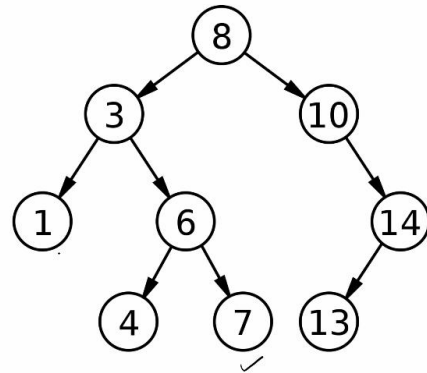
## Deleting a node in a BST

- Case 1: The node is a leaf node
- Case 2: The node is a non leaf node
- Case 3: The node is the root node

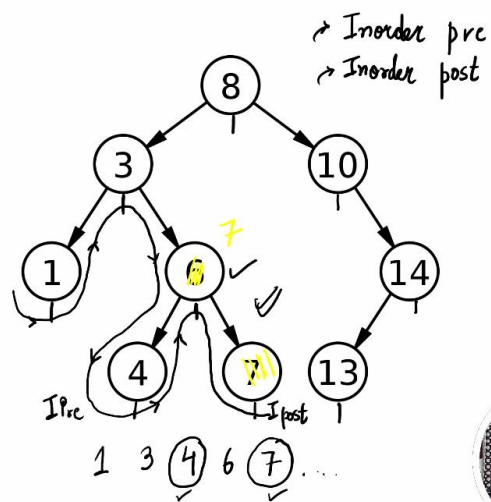
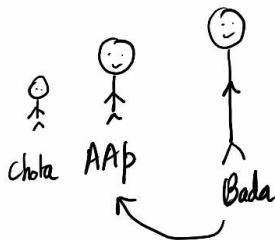


## Case 1: The node is a leaf node

Step 1 → Search the node  
Step 2 → Delete the node

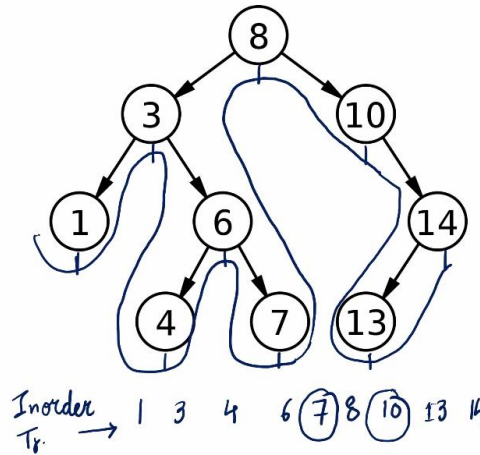


## Case 2: The node is a non leaf node

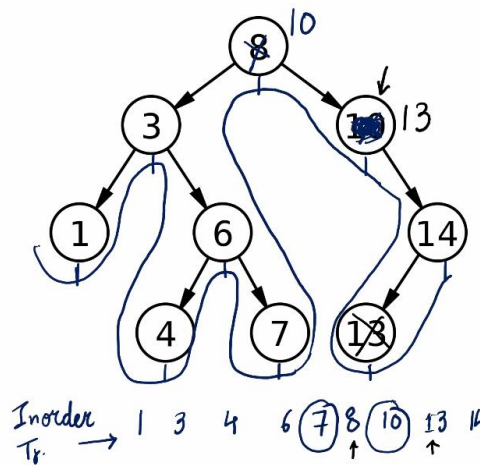


### Case 3: The node is the root node

Try to replace root node by leaf node if possible, it will reduce your computation task



### Case 3: The node is the root node

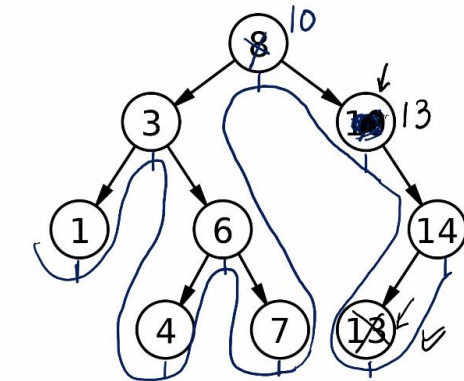


### Case 3: The node is the root node / node in b/w BGT

Step 1  $\rightarrow$  Search for the node

Step 2  $\rightarrow$  Search for  $I_{pre}$  &  $I_{post}$

Step 3  $\rightarrow$  Keep doing this until the tree has no empty nodes.



Inorder Tr.  $\rightarrow$  1 3 4 6 7 8 10 13 16

