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# Binary Search Tree operations in Python
# Create a node
class Node:
    def __init__(self, key):
        self.key = key
        self.left = None
        self.right = None
# Inorder traversal
def inorder(root):
    if root is not None:
        # Traverse left
        inorder(root.left)
        # Traverse root
        print(str(root.key) + "->", end=' ')
        # Traverse right
        inorder(root.right)
# Insert a node
def insert(node, key):
    # Return a new node if the tree is empty
    if node is None:
        return Node(key)
    # Traverse to the right place and insert the node
    if key < node.key:</pre>
        node.left = insert(node.left, key)
        node.right = insert(node.right, key)
    return node
# Find the inorder successor
def minValueNode(node):
    current = node
    # Find the leftmost leaf
    while(current.left is not None):
        current = current.left
    return current
```

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# Deleting a node
def deleteNode(root, key):
    # Return if the tree is empty
    if root is None:
        return root
    # Find the node to be deleted
    if key < root.key:
        root.left = deleteNode(root.left, key)
    elif(key > root.key):
        root.right = deleteNode(root.right, key)
    else:
        # If the node is with only one child or no child
        if root.left is None:
            temp = root.right
            root = None
            return temp
        elif root.right is None:
            temp = root.left
            root = None
            return temp
        # If the node has two children,
        # place the inorder successor in position of the node to be deleted
        temp = minValueNode(root.right)
        root.key = temp.key
        # Delete the inorder successor
        root.right = deleteNode(root.right, temp.key)
    return root
root = None
root = insert(root, 8)
root = insert(root, 3)
root = insert(root, 1)
root = insert(root, 6)
root = insert(root, 7)
root = insert(root, 10)
root = insert(root, 14)
root = insert(root, 4)
print("Inorder traversal: ", end=' ')
inorder(root)
print("\nDelete 10")
root = deleteNode(root, 10)
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print("Inorder traversal: ", end=' ')
inorder(root)

□→ Inorder traversal: 1-> 3-> 4-> 6-> 7-> 8-> 10-> 14->

Delete 10

Inorder traversal: 1-> 3-> 4-> 6-> 7-> 8-> 14->

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