11 Ca a Briter than step dalug (12) ?

Algorithm:

Step 1: Start

Step 2: Define a stemeture Node' with "clota", left'and 'eight's
Pointers.

Step 3: Create a "create Nocle (data)" function to Create a new nocle with "data".

Step 4: Implement 'insert (root, key)' to insert 'key' into the BST

Step 5: In 'insert', if 'soot' is NULL, extrum 'screate Node (key).

Step 6: If 'key' is less, call 'insert (root -> left, key)'; else "insert (root -> right, key);".

Step 7: Implement . min Value Nocle (node)" to find the node with minimum value.

Step 8: In 'delete Node, (root, key)', if 'root' is NULL, return 'root'.

Step 9: If 'key' is less, call 'delete Nocks (root > left, key);'.

Step 10: If 'key' is greater, call 'delaterbole (root-) right skey):

Step 11: In 'delete Node's handle deletion based on the numbers of children or replace with a minimum value mode if needed. Return 'Boot's.

Step 12: Stop

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Bee
           Pseudo Code:
            Stant Node:
               · Int data
                Node * left
                Node * reight
           Function Gente Node (data):
                Node * n = New Node
                n -> data = data
                n → left = NULL
                n -> right = NULL
                Return n
          Function insert (root, key):
               If root = = NULL:
):
                     Return Geste Node (key)
               If key < root -> data:
                     root -> left = insert (root -> left, key)
               Else If key > root -> clada:
                     roof -> right = insert (roof -> right, key)
coot?
               Return root
           Function min Value Node (node)
                Node * current = node
                while current -> left != NULL:
                       current = current -> left
                Return current
          Function delete Node ( root, key ):
                 If soot == NULL:
                      Return soot
                 If key < soot -> clata:
                       root -> left = dolete Node (root -> left, key)
               Else If key > root -> olata:
                      root -> right = delete Node (root -> right, key)
```

Else:

If root -> left == NULL: 1/ Handle deletion with one, child or no child Else. If root - right == NULL:

Fise: Handle deletion with one child or no child

11 Handle deletion with two children Return root

Output:

Tritial BST:

Insert 2:

Inserting 2: In-Order tooversal after insertion: 123456

Delete 3:

Deleting 3:

2 170 (a = 1 +25 cm types 200 3/1/20 In-order traversal after deletion: Energy around 12456

2 32 UN = = 50000 J

2 otob + 100 or < parl JE - 583