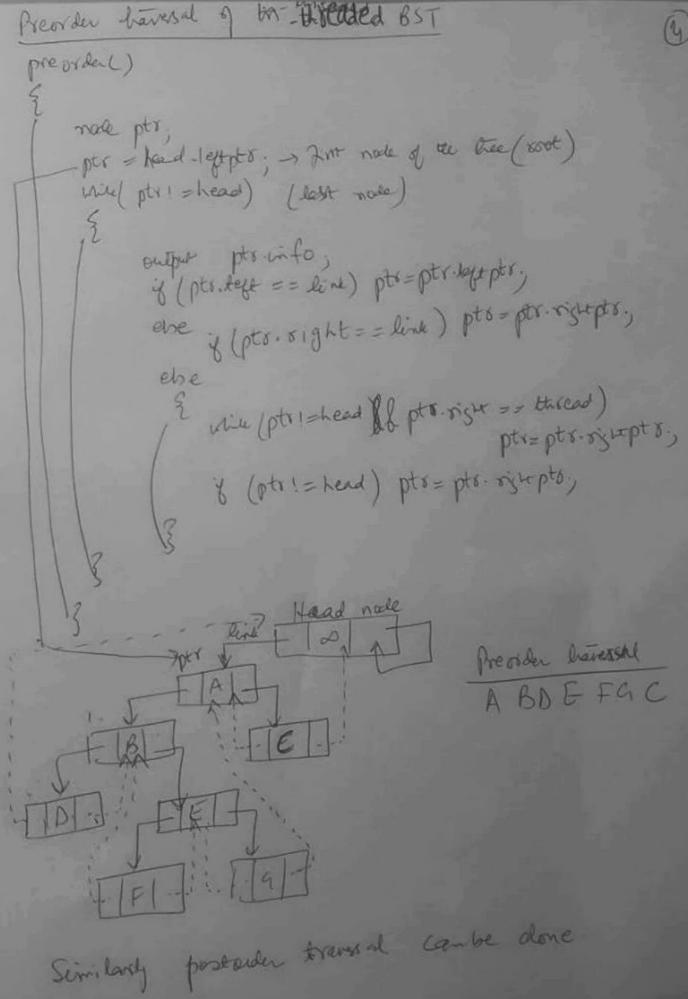


finding inorder predecessor of a node in in-thread BST made inpred (node ptr) nade pred, of ptr. left == thread)

pred = ptr.leftptr., ptr = ptr. leptptr. ;

while (ptr. night == line) ptr = ptr. nightptr. leptry ? pred = ptr.,-Fin predecessor JE. return pred. Inoider braversal of in-threaded BST morder() ptr- head legtptr, tree star-node ( root) while (ptr. left = = lent) ptr = ptr. left ptr. 8) output pts. info (leptmost nock) = while (1) ptr = insuc(pts), break, last node reached b/c nightport of break) output ptoinfo.



Inserties and Deleties in TBST Same as in BST but we will have to (5) adjust the threads often there operations. Insertee care 2 when the tree is empty New node greates head . Left = line ; head left pt 6 = temp, shop left per: thread, tomp left pt & = head; do-prightpti= thread; stop rightpts head; when new node is inserted as the left child parent left = line. forest - leftpts = loop | leftpts ( forest producers is now long rightpts parent; (thread) dispiding paser, Case 3 lister new node is inserted as the right child fact. right = link. parent rightpt demp dry legapti = parer legapts Note to be deleted is leaf node. Deletien If left loop node -> paret. left = thread, If right leaf node of paret right = thread, · parent · right point becorglight Cape to be deleted been one child. Dolete the node or in BST.

After deleter, find the inorder successor and

preducessor of that hode. S= wisuc ( foc), P= inpred (loc), if (loco right = line) S. leftpts = p. Inorder traves of Of node to be deleted ) F B B SHE Les pist suitre TBT leay P = B | 5-10476 = P y (loc. loge = line) p. rightpts = s; Case 3: Node to be deleted has a children, replaced. Sawe as in BST such that it will be deleted with Juncher successor which view by Journal Lith insucce) with case a () or cose (b) & it is a terminal (case a) OR a node with once child.