Q.)	Delete the middle node of a linked
	THE X FIRE LOOP
dn -	
=	Struct l'introde & deleternidable (struct Listing head)
	head , t
	struct List Norde & current - head,
	nentrode, "preurode;
	uchile (coverent! = NULL)
	euwent = convent - next.
	nt + °
	int mid = n/2; int 1=0;
	current = head;
	if (mid = = 0)
	Bree (current)
	head = NULL
	return head;
	else if (midzz1)
	presence = current "
	current = current spert;
	prevnode -> next = current -> next
	free (current);
	return head;
	else
	while (ic mid-1)
	Convent = corrent -> prent
	nenthodo = current -> rent

SURYACOLD Current > next = pentuode - pent Bree (nexthode) . return head? 0.) Odd even linked list -> lectuale Struct ListNode & Oddbren List (stry U ListNode * head) of if (! head | | ! head -> nent |) {

! head -> nent -> next) { return head; Struct Listwoode. " odol Head = head, " eventtead - head - nent; struct List Node " odd - odd Head, Leven = even Head; while (over # 4 ours rent) of odd -> nent = over -> nent; odd = odd > nent; even - next = oder - next; even = even - nent; odd - nent = eventlad; return oddHead;

de) Write a program as) to construct Binary search tree 5.) Traverse the tree using inorder postonaler, preorder c.) Display the elements in true # include < station h 7 Ans => # include < stallib. 4 7 struct to Trecklock of int val; struct TreeNoide & left; Struct Treewoode "right" struct Tree Node & createNode (int val) struct TreeNode a neurode = (struct TreeNode ?) mallor (size of (struct Treewoode)); nevenade -> val = val? newwoode > left = NULL; neuewode -> right = NUCL. return newpode; struct TreeNade "insert (struct TreeNode " rest , int val) , 1 roet = 2 NULL) soturn reaterode (val). if (val < reet - val) of root - left 2 Proort (soot + lebt)

plue if (val 7 root -> val) {
noot -> right = insert (root -> right,
val); return root; void moroler: Transmal (Stryct Tree Node * mot) if (rect = = NULL) of return; merder Traversal (rout > left); printly (4 of old) root -val); shorder Traversa/ (root - right); reid preorder Traversal (struct Tree Noole real) of (most = 2 NULL) 1 setulin o points / mod" o root - val). presseler Traversal (root - left); preosder Transmal (rest - right). noid postorder Francisal stryct Treenode root) 1 If (root = 2 NULL) 1. return; postorder Traversal (rest) left !; postorder Traversal (root -) right);
prints (4 /od) root -> val);

void display tree (struct Treewoode root) print prelements in tree: "). inorder Traversal (root) points (y) nu); cash int mainc) struct free Node & most 2 NULL " int choice = - 1, val; prints (4) 12. Theest element | n'1.

Prints (43. Display tree (inorder))

Prints (43. Display tree (preorder) print (44. Display tree (partorday)) printe (45. Exit (n4); ashile (noise /25) of print (" Enter your charce: "); scamp (7 of od.) & choice); suitch (choice) of Prints ("Enter value to insert:") root z insert (root, val);
break; Case 2 3 display Tree (mot); case 3: prints ("elements in tree (preorder);");

preosder Transisal (root); print (4 / n 4); break . case 4 . prints ("Elements in tree (postorder): postoraley francisal (real-1; return o" Output -. Enter your choice: 1 Enter value to insert: 33 Ender your choin: 1 Enter value to insert: 44 Enter choile: 2 Elements in tree: 33 44 enter choice: 3 Elements in stree (presoder): 33 44 Enter choiu:5 Enit 102.24