Scalon -17:onorder & 2 -1 14 4 2 17 8 15 6 49 Preorder: 8-13 14 4 14 2 4 6 15 9 Given morder & Preocder Print the Port order Root Ele Ps the first ele In Pre Order in inorder he need to find the Root and divide left and Right Recursively (Extract the current Ele)

(Extract the Current Ele)

We need to have a global Variable that we Preordy -> We need to find the index of ele in inoxder Every thing from " od 10, "da-1 are left and idz +1, to high are Right

Comptending the tree.

Int ida=0;

Node Comptend (int int], int Prest, 3 17 6 9

if (lo > lo) int hi) ?

int cur = Prestida;

index of curr in

index of cur

Coustan N+ N+N £: N+N 4c : 1 1 1 1 1 1 populate Port-order map tree Committee of which map wegue 18 14,30 poster 1115 772 nd 5018need to Construct a tree Print (interdal); NO 1,74 70 Port (int int], int prett int 10, int his q Word "if (loski) returns "INT Lurr = Pre [id= ++]; (00 1 ; (1) Cid = Find (-); Port (in, Pre, 10, cida-1); PORT (in Pre, eidati, hi); ([[[Cin [Cida]) action man; 2 (155) 25 15 (00,1-) TC: (2.07) (02,E) (F/-) Sc: N map. Populates 10000 900 map using. ? will problem (une = = +000) 48 of Given a Binary tree! Check of 1914 9 a BIT all(2) < moot < all(2) 86 (piph town , ch, Hol. 1000) 122/2 124/2 1 + By Checking Root Mode With Max ere Value of left Subtree / mond with who value of -8 205 1 Pototop. 1000, oly that took) 1282 2 15 21 5 - 12 x 1 / 22 + 11

end Co1:

Inorder the three Store in an acray, check of Society 1) No. 1 -> Bente force

Check OH mon(1) chap

know(1)

know(1)

2) N+N, N

\$102 PM

the graph and the

mo need of acray check

1, M (E

4) N,1

4th So1:

(-20, +20) (-20, 34) (-20, 34) (-1,

6001 " BST (Made LOOK, "17 10, 37 hi) &

"A (LOOK == 7411) return True;

of (koot. data >= hi 11 200t. data <= 20)

return take;

return 1282 (2001-1eft, lo, 2001-data) 939 (2001-data) 430 (2001-data) 430 (2001-data) 430 (2001-data)

return (1001. data > 20 44 root. data < hil & 4

PBST (200+, 167+, Po, 200+, data) 23

" (BLT (800+, xight, xoot, data, bi);

and fine to want and you

code for Bool one = true; To set see Void "worder (Mode 100+) } it (100+ == 2011) we tran? "Morder (200+ . left); of (Root. data > Prev) aux = Faler; per proof data; morder (root, rique); (2) souls 2 - > (6/0) in /2 > You are given a Bet, Thin the 10Bet our the elements in BET Though be [a,b]. ir prostate (r== plate 341) (24,43) 3 (mx stab toon) 26 34 Sloteli-toor, - Maphy toon 2 2017 -8 20 4 (1901, toom) 2001 7 100H218 Thin BST in a Way Sun that Only the sange elements from a (H) (H) (H) Precent in BST. Solurone 132 Boute Posself My Nopoli (H), 100001 dete Search & delete 2. N.1 50d To1 ?sun wor the Node stateme (node 2001, 37 a, 17 b) { it (root == Jan) werran Jan? It (Koot, data (a) return trim (2001. Right, 2/d, bownson aniestoc Te 29 - 1 9f (1800+. data > b) return trem (1800+. left, a,b); root. left = trivu(root. left, a, b); Root . Right = trim (Root . Right, a,b)

return root; 12 . L' Te in the first + 7 1/4/6 7] . . 7 . . 1 File as mad a mich . I as) " You are given BCT You need to Find the Hoox (a) Pur BSTine) area == 28 max(ele) (= x "mt floor (Mode NOOL, "mt ~ , "int and) & - 10 3.F (200+ == mail) return ane, 1201 Of (Koot data == a) return x; return floor (koot, right, a, moot, data); 31 (Loot, data Km) { ractum? Floor (most, left, a, and); want will posted so will prod what Tc: O(H) Sciot) strange special sell place Todo: Similarly implement Ceil abole is would what You are given a number i find their least-Common ancestor in a given BST. Ex: For 20,26. least (p) 1106.191 Common ancestor Pe 24 But the state of which produce (I a more to sall + 7) Idea stoplatour livet = +15 -10024

11 de 12 de

1874 LCA?WBST (Mode ROOF, PAF a, PAF b) {

of (root data < a & & root data < b) }
return LCAINBST (root right, a, b);
}

elee 9,4 (2004.data >a 8,4 2004.data

return LCA in BST (soot = left, a, b);

2

Elec return 800+ g. data;

3