Inorder predecessor in B\$7 orda ju a point premous Node * get Predecessor Node * aun HOOF == NULL) sieteren NULL; themp = curr Tleft; == NOLL) exist section tem

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Inorder Successor in BIT BA -> store morder in an au brind west clement. Morris Trucessal void Morris Rancesal (& Node * Node curs = soct; while (curs of NULL) gout Kaus + data; Curs = curr -> Right; Clae fred = getbed (cur); Jeseating link fred - sight = cus; pred-sight = NULL' Seemaing aus Faur right;

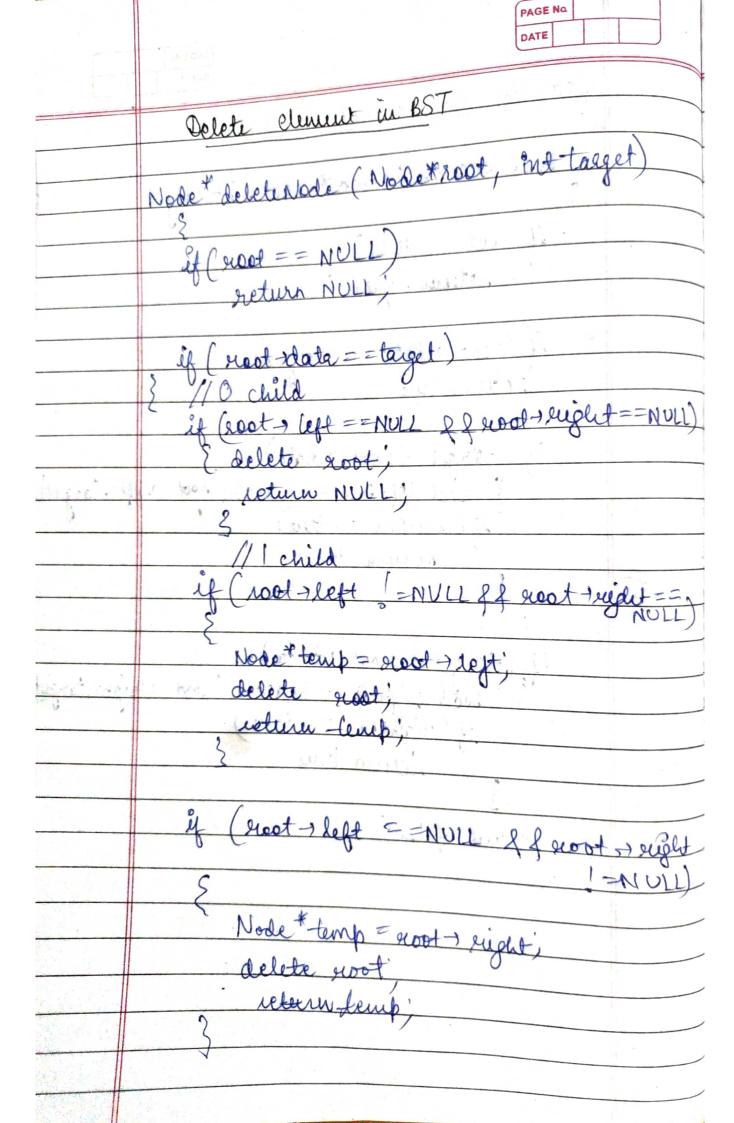
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| | Flatten a Binary Iser to Linked List- |
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| | |
| | i flatten (root) |
| | |
| | Node aver = root |
| | achielo (curr = root) |
| | 2 Professional Pro |
| | 21 Cours 2000+1-NOU11) |
| | · Ex (Cour-sleft !=NULL) |
| | C Sud |
| | Node* fred = aury-left; pred |
| | unile (pred reight = NULL) |
| | pred = pred - right; |
| | pred - pred - right |
| | pred seight = curr + right; |
| 1 | cura > eight = cur + left; |
| 10. | cour - left = NULL; |
| C. C. | |
| | 3 |
| | curr = curr - right, |
| us Pir | 5 |
| | Contraction of the second second |
| | anutar. |
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| | Geoting BST - |
| | void cresteBST (Node* facot) |
| <u> </u> | out « Enter value for Root Mode"; |
| | int date; there is a large faire. |
| | while (dota = -1) |
| 1, = - | |
| | ecot = build BST (good, data); cin >> data; |
| | Suzini Carrie Influe bari |
| | Node * Build BST (Node * 2000t, int data) |
| | if (not = = NULL) |
| | |
| | sieturn temp; |
| | elle evort - data) Elle evort - right - build BST (evort - right, |
| | 2 scoot -) eight = build BST (scoot -) right, |
| | else data), } |
| | Else { eroot -> left = bevild BST (root -> left, } return proot; data); |
| | 3 return poot; data); |
| | |

| | Search an element in a BST- |
|--|--|
| | Season an annual an a sist |
| | 1) of the said Call of Coal Cal Area A) |
| | & bool search (Node & Red, int Carget) |
| | |
| | if (lost == NULL) |
| | Ef (200t == NULL) Setern false; |
| | V |
| | if (soot) data = =torget) return true |
| 4 | seturu true |
| CAND | - Armie Indian Children die Friedrich |
| | if (target (root -) data) |
| | I have lost Dois = lenich (hoot shelf tagget |
| 4.0 | E bool left Ans = search (hoot sleft, target) if (leftAns = true) |
| | and the state of |
| | Return true; |
| 1 1 1 2 20 | |
| | PI CLANT Y AND A |
| | af (target 7 evost) data) |
| | éf (right Ans = search (root) right, target ef (right Ans = true) return true; |
| | ef (right mi - ville) |
| | 2 Section Date, |
| A 19 19 19 19 19 19 19 19 19 19 19 19 19 | |
| | return false, |
| | |
| | |
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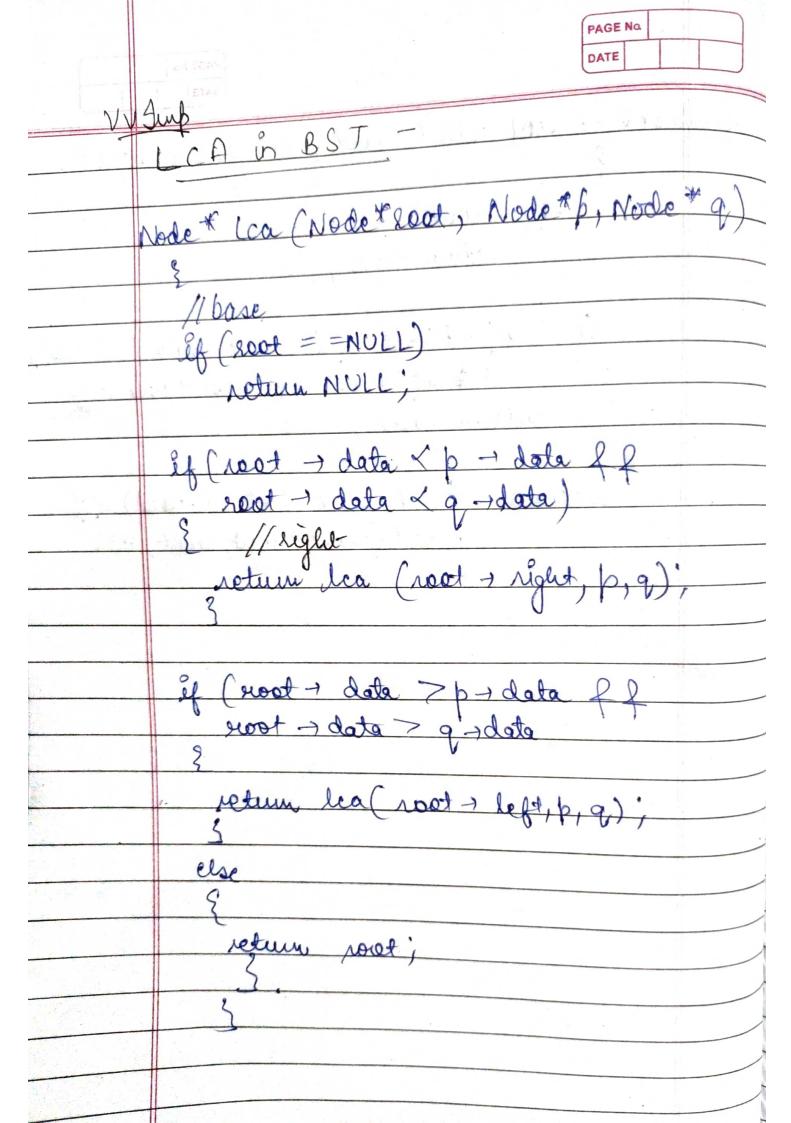


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| | 1/2 child |
| | If (evot) set! = NULL of noot) sight = NU |
| | int fred = max Value (root 1left) - dels |
| | |
| | rest-regt = deletentade (soot reft, pred); |
| | seturi root |
| | 3 |
| | 3 |
| | else Ef (torget > soot > date) return (200+ > Right, larget); |
| | return (200+ > Right, (arget)) |
| | |
| | lese setum (soot) left, target); |
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| The state of the s | |
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| BES | Check tree is BST/not- Sproperty Inorder is sorted. Jake out morder & check |
| odstann | ed on basis of Range |
| | le > hool is BSTVtil (exoot, & priew) |
| | If (aioot) = 15. |
| | if (1 isBST (root-left), preu)) return false; |
| | ef (prev = NULL & & noot + data < = prev + data) return false; |
| | frev = root; |
| | return (is BST (root > right, preu)); |
| | bool inBST (2001) { * Essen = NOT 1; |
| | return isBST Vtil (nost, preu); |

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| obtin | ised - bool is BST (Root, l=NULL, & = NULL) |
| 7 | \Sigma |
| 1.6 | if (soot) |
| 9 | setur true |
| i. | |
| | if (11=NULL II) noot-date = 1-) date |
| | if (11=NULL of groot-) date (=1-) date 11 & 41=NULL of groot-) date >= 4-) |
| | ereturn false |
| | elevite de la cici de don la |
| | exetiver isBST (exoct > left, l, exoct) & fisBST (exoct -) right, exoct, &); |
| | PSBST (expot - sight, expot, &); |
| * | The transfer of the second second |
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| | ETALL STEEL STEEL |
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| | the first tree of the |



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| | Langest BST - |
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| | for this, first me will create a class. |
| | for this, first are were cours. |
| | |
| , | Class Info |
| | 3 |
| | 0 |
| | bublic: |
| | ut mini |
| | int maxi; |
| | int size. |
| | int size; bool isBST; |
| | 6001 13851 |
| | |
| | Info ()co { |
| | 4 |
| | |
| | han0 |
| | Info(int a, int b, int c, boold) |
| | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ |
| | min = a; |
| | · · · · · · · · · · · · · · · · · · · |
| | maxi = b; size = c |
| | Size = C |
| | isbsT = d; |
| | 3 |
| | |
| | - · · · · · · · · · · · · · · · · · · · |
| | -Node * build |
| | |
| | Node * solve (Node * root, Put & ans) |
| | { il (quat = = NULL) |
| | I if (quat = = NULL) |
| | A LAND (INT MIN IN TOPAY A LAND & |

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| | DATE |
| | 31A0 |
| | Jupo Ceftons = solve (soot > left, ans); Tupo Cightons = Solve (- " > sight, ans); Tupo curs; |
| | Jupo Ceftins - south ons); |
| | Supo Right Ans = Solute |
| 1 | Tipo curs; |
| | |
| | aver. size = left Ans. size + right Ansestize +1 |
| | cura size = leftAns · size + rightAnse fêze + /; cura · mini = min (leftAns · mini ; root -) doute); |
| | cues max = max (right Ans. maxi, recot +date); |
| | |
| ļ | if Clept Ans. isBSTOD Right Ans BST DD |
| | noot date Sept. mini Il 2001 data |
| | not date Septement of not date Light mini of not date Light mini |
| | { curus BST = torre; |
| | |
| | else |
| | cuer es BST = false; |
| | |
| | if (avv. BBST) |
| | |
| | aus=max(aus, aure, size); |
| 30- | 3 |
| | return & curr; |
| | |
| | |
| | |