

* Assignment No. to *

compairs may require for finding any keywood. Using Balance (AVL)

· Objennier-

- 1) To understand concept of hee 2) To understand concept of array proleture.

o problem bleetement:

A dichonory Store Keyword & its meaning provide for facility for adding new keyword delenning & keepwords , updoening Yanus. of any entry provide facility to display whole douted stored to ascending Degending order. Also find how many maximum any keyword Use Height balance hee. & find the complexing for findling a keyword.

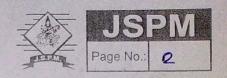
· Outcome!

- i) Implementation of borning bearthing li) Analysis working of function

o Theory.

Dinore, beaten pre which may somerimes also be called as ordered or sorred binory free 169 node based binory bee data spectred.

The right subnee of node contains only no. with greature than nodes key both left &



night bubble must also be binary search

· In section :

Ensembon begins as a bearth would begin if noot is not might but here as before eventually we will reach an externed node and add value as its night or left child depending.

on nodes values.

Void insermode (node *, & heenode).

node # newonode;

hee node = newonode;

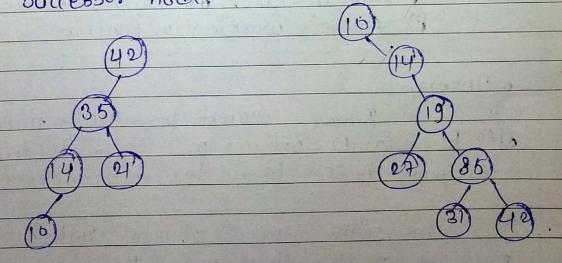
el beif (node) key, heen ode -> beep);

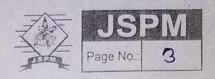
insem thode (heenode -> left 'newo hode)

elbe.

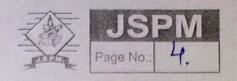
thom node (heenode -> man + inewonode)

Deleting node with two Children coull the node deleting N. Do not delete H choose buckets node.



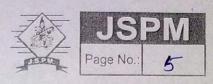


oblocmp.1 5 hamp compare poo 5 mings include & String. hy. int shamp (const char + RGI. const. char & 3) Description: the strongs Return volue: upon compretition stramp() shall return integer genetur than equal roor 1855 thon O. o Algorithm !-· Create function.1. 11) Take dates from User of treate men nodent. iii) store dato innificable left & might child "NULL" iv) If root i's I NUL" the assign root V) else coul insent function of perso moor vi) brop.

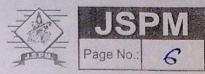


- · Insort function:
- 1) btart
- e) we have neo node is passed argument. bo cheek data intemp isthen data in not.
- 3) If data in mot is less than data in hemp. then check it right child of most is NOW 4) brop.
- · Display function:
 - 1) Start
 - 2) IF not is "NULL" then display here of is not created.
 - 3) otherwise call intodes function & puss 4) stop.
- · bearth function "...

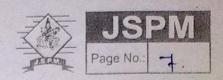
 - 2) If not is Hull then display tree is not Created.
 - B) Read the key to be updated in variable bay 1c.
 - 4) search the key to be updated in vanable.
- · Inorder function:
 - 1) Start
 - y taking root from inorder function theck if it is NULL or not.

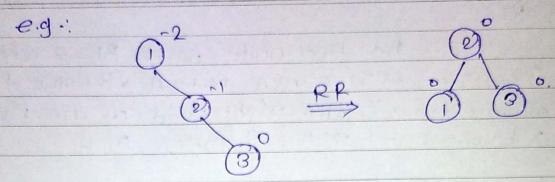


o Inorder function!
i) btart.
lij Taking moot from indider function cheal i Rit
is MULL or noot.
iii) Again call inorder function & pass left
child Address or node
iv) Display data ofroot.
N) Again call in order function.
vi) stop.
o main function!
1) Brort
2) create ne cessory also Object & declare.
Marsable
3) Point mency as below thetaken thoice.
User.
4) breate
5) DISPUL
6) bearch.
7) updove 8) delete
9) Exit.
march Space
o Operchon!
Potenhos.
1) LL (Left of veft)
2) RR (Right OR Right). 3) LR (Left of organt)
0 P
4) RI 1 Right of Cert)



1) LL.)
Let x be the node with BF equal
to teafter insertion of the new node.
e.g-1 101512.
insert 10 (10)
insent 5 (10)
A
(b)
10 5PM 2 18fc (10)
in sent 2 13 fc (10)
BP 2 1 (5)
(2)
Bf = D
OT- P
C++ functions for LL-:
no de *LL (node *T)
2
T= notarengn+(t);
return (T);
3.
2) RR -:
Let & bethe with Bf. equal to 2. after
insembn of the newnode A.
Q-2×
D-17 =>
OA X OA.
O



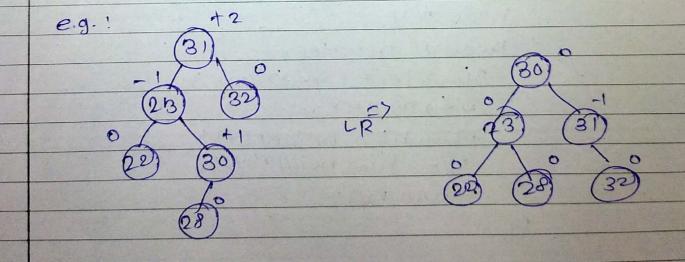


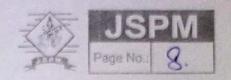
c++ function for RR: node *PR (node *T).

T = sotesteleft (T); seturn(T);

(3) LR -:

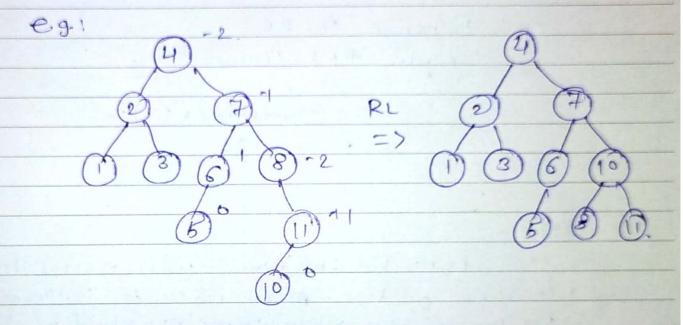
insension of the men node A. Balance factor of the node the left child of the node x becomes after insension of A.





4) RL -:

insention of the new node A. · Balance feector of the nowe Y. the night child of the node X becomes +1 after insention of a.



node * 4;

nodey= n - left.

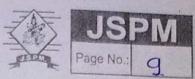
nodey= n - left.

y - ngnt = n;

y -> ht = height(4);

return (4);

3



	Page No.: 9
	* Plowchart -!
	Start
	OP/ 1. (reacte
	2. bearen
	3. print.
	4. quit
	Enter choice
	bwitch(op).
	of how many notes
	case 1: You must to insert
	ilp:n.
	Fenter deuter == 0 1/1 Yes ilp
	Kenter douter == 0 12n yes ilp x key (ase 2: 1+1 2n) 21
	olp processed o
	bearen key (abe 3: un mbg. procedure
	Cose 4°, btop.
	+ Conclusion!
	Hence we studied and implemented.
	buccessfully AVI hee. i.e Hieight Balance her.
	A STATE OF THE PROPERTY OF THE PARTY OF THE
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