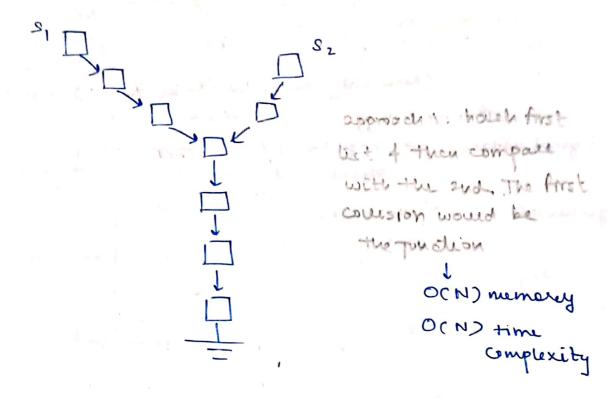
Day 22 Trees 1 (Introduction)

Q. Cüren 2 linked lists, return the junction.



approach 2: if the hugter of the lived list

OCIDmemory =

Is equal, then moving our step for each

OCN) to

I list and then intersection will surely

Owine. (If present)

But, the length might not be equal, so

ne calculate the difference between the

two of according truncate one

11st to make them equivalent

4 accordingly apply the

approximator equilength

usts.

*) Binary search tree: every element in the 1cft subtree is smaller than root of every element in the right subtree will be larger than the root's value.

inorder (node -> right))

Inorder towersal will be sorted values.

(*)

7

(ii

lici

2

*) iterative approach for traversals:

i) postorder: maintain whent, and in while loop if current is not now, then push right child of whent if it exists and then whent to stack, and make left child at whent. If hell, pop the stack, if the right child of the popped clement top of stack are same, then push popped element back to stack and make whenh as right. The Else print current and make when the current and make wh

ii) preorder: If coment is not NUL, print it and push right child to stack and corrent equals to left shild. If null, then corrent = stitop and continue.

LNK

CO(1)) space

osing threaded

binary tree

cop continues.

Q. tweeting the tree/mirror image of tree

1 3 2 4 5 4

```
if Croot == NUL 11 (root > left >= NUL 44
                                   root -right => NOW))
                return root;
      contract . invest (root -right);
      too corgate invest (root > 6++);
        CORPO-DO PORTO DE PURIO
                                              balancing free
             temp: root > left;
             root → left = root → right;
                                             *) AVL Week
             root ->right = NUL;
                                             R) Red black trees
a. Check if a tree is almost balanced absidiff blue
                               (for every mode , height
 height: includes root
                              of left subme of right
 depth: doesn't
                                   subtree <= 1)
       definition may vary
                                       using struct of
       better to closeify or test.
                                        height of bool and
               return true or false
                                        we use these to
                                       not do repetitive
                                          work, which
         can also be done
                                  would req. repititive work
        using one rariable,
                                       of finding/ computing
        by reburningit a tre
        value is returned for
        applicable / balid ans
      and -1, if not.
```