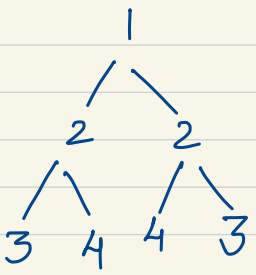
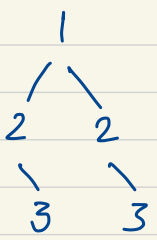
Symmetric Tree



Symmetric

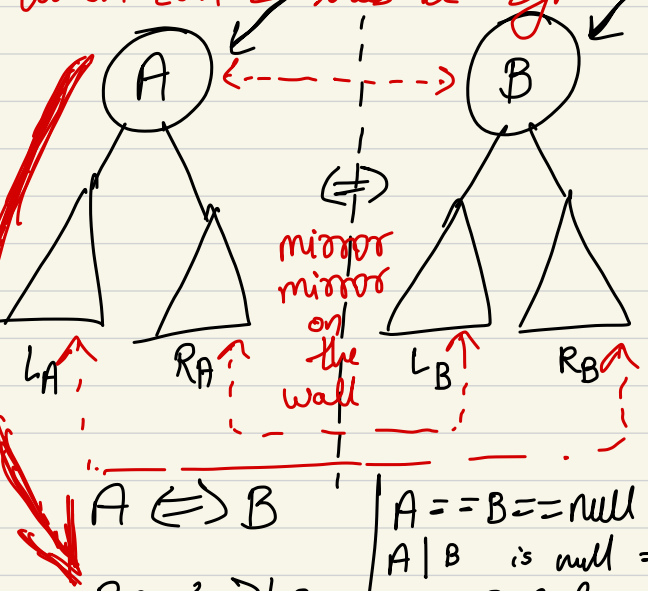


Not Symmetric

Brute Force !!

Recursive Pattern ?

When can 2 trees be Symmetric



$A \Leftrightarrow B$

$R_A \Leftrightarrow L_B$

$L_A \Leftrightarrow R_B$

A == B == null ⇒ OK.

A | B is null ⇒ False

A == B && isSym(R_A, L_B) && isSym(L_A, R_B)

Iterative :

Using Queue !! BFS.

2 consecutive nodes should be equal.

lets call them A and B.

then add

A.right } R_A

B.Left } L_B

A.Left } L_A

B.right } R_B

Yash Pradhan
Study Notes