

* Given a Singly Linked List,
write a function to determine
whether the given list is a
palindrome list or not.

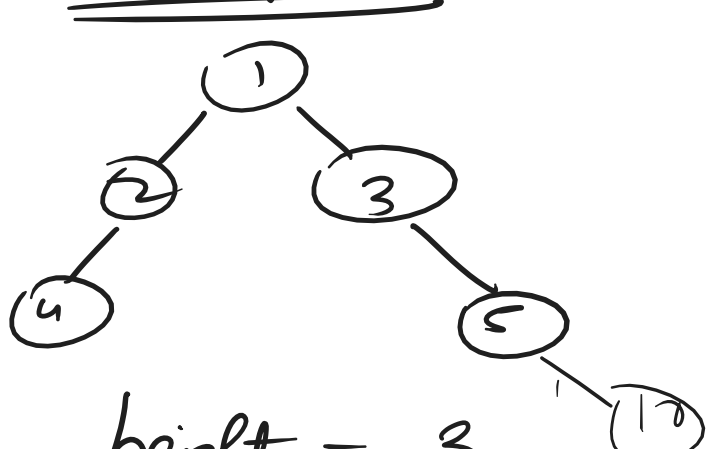
i/p $\rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow \text{null}$
 \hookrightarrow o/p true

i/p $\rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow \text{null}$
 \hookrightarrow o/p false

Given a Binary Tree \rightarrow ~~***~~

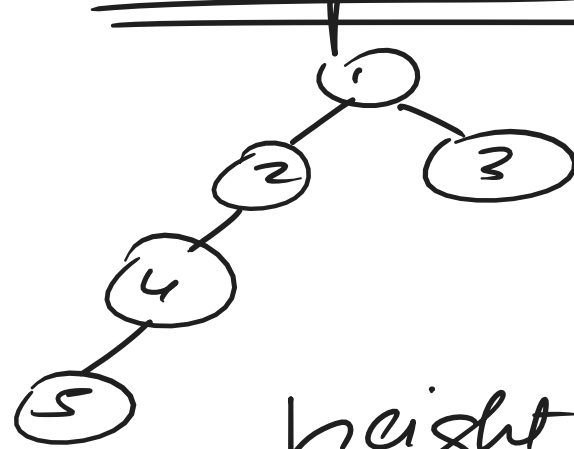
Find the height of the Binary Tree:

Example 1



height = 3
Height = Max distance from root to any leaf.

Example 2



height = 4

Two important interview Questions on BST

① Ceil from BST **

② Floor from BST **

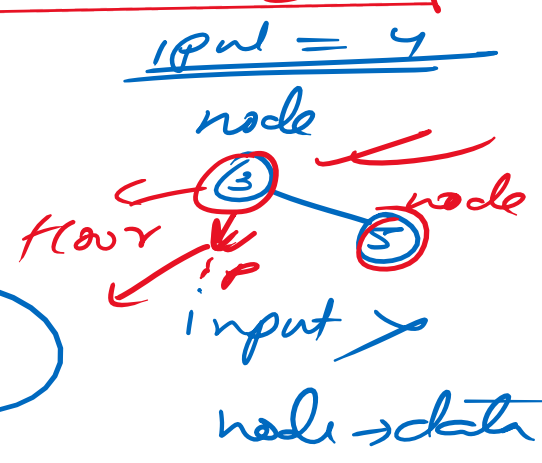
arr = 1, 2, 5, 7, 8, 9, 3

ceil value { key = 3

floor value {

ceil \geq key \rightarrow 5, 3

floor \leq key \rightarrow 2, 3



Aptitude \rightarrow Coding Question \rightarrow

$\boxed{\text{LCM} \times \text{GCD}(\text{HCF}) = \text{product of 2 nos}}$

(a, b) Euclid's Algo
45, 75 lcm (a, b) gcd (15, 75)
45 | 75
45 30
30 15
15 0
gcd (a, b) = 15

75, 15
gcd (b, a - 1 * b) = gcd (15, 0) = 15
if b = 0 return 0

gcd (a, b) = 17
68, 85
68 | 85
68 17
17 0

$\boxed{\text{lcm} (a, b) = \frac{a \times b}{\text{gcd}}}$

$\leftarrow \rightarrow ?$ Degree
N = 5 [K = 1]
arr = {P, T, T, P, T}

P \rightarrow Police \rightarrow can only catch one thief
T \rightarrow Thief
res = 0, 1, 2 = P

neighbors = 2
police = {P, T} arr = [P, T, T, P, T]
thief = {T, T, T} arr (0-1) = -1 = 1
3 - 2 = 1

Feedback code \rightarrow 11241