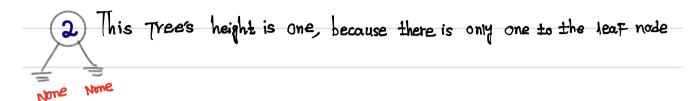
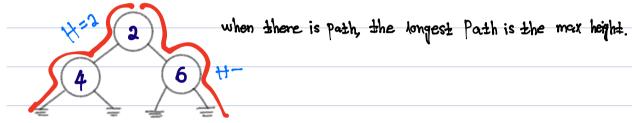
max height: the number of nodes from rook node to the leaf node in a longest path.





Note: It can be seen that when the root becomes none, we stop counting Algorithm:

- 1) Traverse whole tree, both to the left and right of every node;
- @ add 1 to the height whenever you encounter a nade.
- 3 Stop moving Further in a node when the root of that node becomes none.

```
maxHeight (root):
                 if root == None:
                        return 0
                  else:
                        leftHeight = maxHeight (root.left)
                        right Height = max Height (root right)
                        return max ( NeftHeight, rightHeight) +1
                                                                     2
maxHeight (2)
                                                              4
           maxHeight (4)
                                                                    8
                                                       10
                        4. \text{ Nept} = 10
                        LH = maxHeight (10)
                            Lt = maxteight (not left) = maxtleight (None)
                            Rt = mouteight (rotright) = maxtleight (none)
                                                       return max(0,0)+1
                       4. right= 8
                                                        1 #=1
                       Rt = maxteight (8)
                            14 = maxHeight (8. lett) = maxHeight (None)
                            Rt = maxteight (8. right) = maxteight (nome)
                            return max(0,0)+1
                             RH = 1
                 return max(1,1) +1=2
   Telum max(2,1)+1=3
```