Balanced Binary Tree

Question: Given a binary tree, determine if it is height-balanced.

For this problem, a height-balanced binary tree is defined as a binary tree in which the depth of the two subtrees of every node never differ by more than 1

Solutions:

```
class TreeNode:
  def __init__(self, x):
    self.val = x
    self.left = None
    self.right = None
class Solution:
  #@param root, a tree node
  #@return a boolean
  def isBalanced(self, root):
    return self.isBalancedInt(root)>=0
  def isBalancedInt(self, root):
    if root == None:
      return 0;
    left = self.isBalancedInt(root.left)
    right = self.isBalancedInt(root.right)
    if left<0 or right<0 or abs(left-right)>1:
      return -1
    return max(left,right)+1
```

```
if __name__ == '__main__':
   BT, BT.right, BT.right.left = TreeNode(1), TreeNode(2), TreeNode(3)
   print ( Solution().isBalanced(BT) )
```