## Minimum Depth of Binary Tree

**Question**: Given a binary tree, find its minimum depth.

The minimum depth is the number of nodes along the shortest path from the root node down to the nearest leaf node.

## **Solutions:**

```
class TreeNode:
  def init (self, x):
    self.val = x
    self.left = None
    self.right = None
class Solution:
  #@param root, a tree node
  # @return an integer
  def minDepth(self, root):
    if root == None:
      return 0
    if root.left == None:
      return self.minDepth(root.right) + 1
    if root.right == None:
      return self.minDepth(root.left) + 1
    return min(self.minDepth(root.left),self.minDepth(root.right))+1
if __name__ == '__main__':
  BT, BT.right, BT.right.left, BT.left = TreeNode(1), TreeNode(2), TreeNode(3),
TreeNode(10)
  print ( Solution().minDepth(BT) )
```