

//Java solution

```
public class Solution {

    int longest = 0;

    public int longestPath(TreeNode root) {
        if(root == null)
            return 0;
        if(root.children == null || root.children.size() == 0)
            return 1;
        longest = 1;
        for(int i=0; i<root.children.size(); i++)
            findLongestPath(root.children.get(i), root.val+1, 1);
        return longest;
    }

    public void findLongestPath(TreeNode root, int expected, int len) {
        if(root == null) {
            longest = Math.max(len, longest);
            return;
        }
        if(root.val == expected){
            if(root.children == null || root.children.size() == 0) {
                longest = Math.max(len+1, longest);
                return;
            }
            else
                for(int i=0; i<root.children.size(); i++)
                    findLongestPath(root.children.get(i), root.val, len+1);
        }
        else {
            longest = Math.max(len, longest);
            return;
        }
    }
}
```