When insert three keys into a non-empty 2-3 tree, and if the tree gains height when the first key is in, then it is possible that the 2-3 tree will gain more height after the insertions of the next two keys.
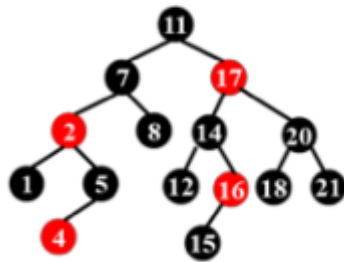
F

The time bound of the FIND operation in a B+ tree containing N numbers is $O(\log N)$, no matter what the degree of the tree is.

○ T　○ F

The following binary search tree is a valid red-black tree.

F

When inserting a node into a red-black tree, we shall first insert the node as into an ordinary binary search tree, and then color the node black.

F 先涂色

In a Red-Black tree, the path from the root to the farthest leaf is no more than twice as long as the path from the root to the nearest leaf.

○ T　○ F

In a B+ tree, leaves and nonleaf nodes have some key values in common.

○ T　○ F

The root of a B+ tree of order m has at most m subtrees.

○ T　○ F

In a red-black tree with 3 nodes, there must be a red node.

F

In the worst case the DELETE operation in a RED–BLACK tree of n nodes requires $\Omega(\log n)$ rotations.

F

In a red-black tree with 2 nodes, there must be a red node.

◉ T ○ F

答案正确：1 分　♡ 创建提问 ☑