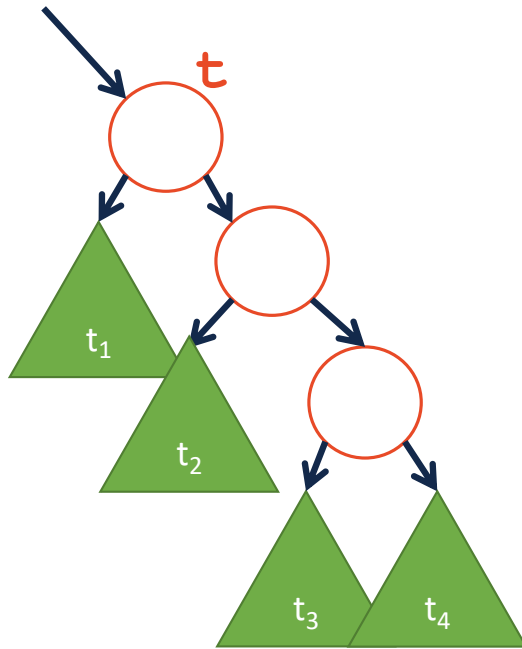


## Finding the Rotation on Insert



### Theorem:

If an insertion occurred in subtrees  $t_3$  or  $t_4$  and a subtree was detected at  $t$ , then a \_\_\_\_\_ rotation about  $t$  restores the balance of the tree.

We gauge this by noting the balance factor of  $t \rightarrow \text{right}$  is \_\_\_\_\_.