RED BLACK TREE: https://en.wikipedia.org/wiki/Red%E2%80%93black tree

- Delete a key-value pair
 - Step 1: delete as a BST
 - Search the key, recursively or iteratively
 - If not found, then deletion failed and return null
 - Otherwise (*node* found):
 - 1. If *node* has two non-NIL children, then the next larger node is the left-most node in *node.rChild*'s subtree, and this *larger* has at least a NIL child. Swap *node* with *larger*
 - 2. The *node* now has at least one NIL child: set *node* to NIL's sibling (this sibling may also be NIL)
 - 3. If *node* is not *root* (*parent* not null), then link *child* to *parent*; otherwise:
 - If *child* is NIL, then empty the tree
 - Otherwise, set *root* to *child*
 - 4. If *node*'s color was black:
 - If *child*'s color is red, simply set *child*'s color to black
 - Otherwise, fix *child*'s color by Step 2
 - 5. Return node.value

Important note: the Wikipedia RBT removal has errors in both description and source code, so please read with caution.

- Step 2: balance the tree fixDelColor (node)
 - Case 1, *node* is *root*: done (it's already black)
 - Case 2, *sibling* of *node* is red:
 - Set *parent*'s color to red, and *sibling*'s color to black
 - Rotate left/right on sibling if node is a 1Child/rChild
 - Update sibling to node's new sibling
 - Case 3, parent, sibling, sibling.lChild and sibling.rChild are all black: set sibling's color to red, and fix parent's color invoke fixDelColor(parent)
 - Case 4, *parent* is red, *sibling*, *sibling*.lChild and *sibling*.rChild are all black: simply set *sibling* to red and *parent* to black
 - Case 5, sibling's color is black: set sibling to red, and:
 - node is a 1Child, sibling.lChild is red, and sibling.rChild is black: set sibling.lChild to black, and rotate right on sibling.lChild
 - node is a rChild, sibling.lChild is black, and sibling.rChild is red: set sibling.rChild to black, and rotate left on sibling.rChild
 - Case 6: set *sibling*'s color to *parent*'s color, and then *parent*'s color to black
 - If *node* is a lChild, then set *sibling.rChild*'s color to black, and <u>rotate left</u> on *sibling*
 - If *node* is a rChild, then set *sibling.lChild*'s color to black, and <u>rotate</u> right on *sibling*









