

红黑树删除（自己思路）：D,P,S,L,R,Cur, = DelColor

删除操作(通常删除 D left child tree 中最大值或 right child tree 中最小值 节点,将 D 中 value 换成删除节点的值(这样可保持树结构不变),同时恢复二叉树性质)

实现(假设删除 left child tree 中最大值)

if D.rightChild.exist then D = D.rightChild

if D.leftChild.exist then P.rightChild = D.leftChild And Cur = D.leftChild, DelColor=D.color

else delete d
else Cur = P And DelColor=D.color

恢复红黑树性质

if DelColor is red finished

else DelColor is black

if Cur.color is red then Cur.color = black finished

Cur.P.color is red Then Cur.S.color is black

Cur.color is black

Cur.P.color is black

Cur.P.color is red

Cur.S.color is black

Cur.S.color is red

Cur.S.R.color is black

Cur.S.R.color is red

右旋 P, Cur.S.color = black, Cur.P.color=red, Cur=Cur.S
右旋 P, P.color = red, Cur = S
左旋 S, then S.color=red, S.R.color=black

此时 cur 所在路径应 Cur.S 包含进来,恢复红黑树性质