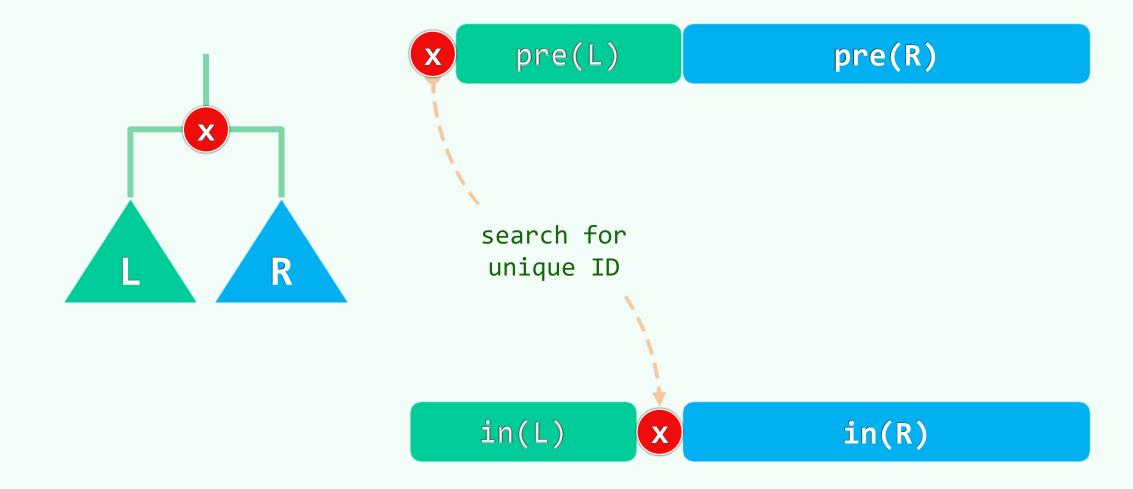
重构

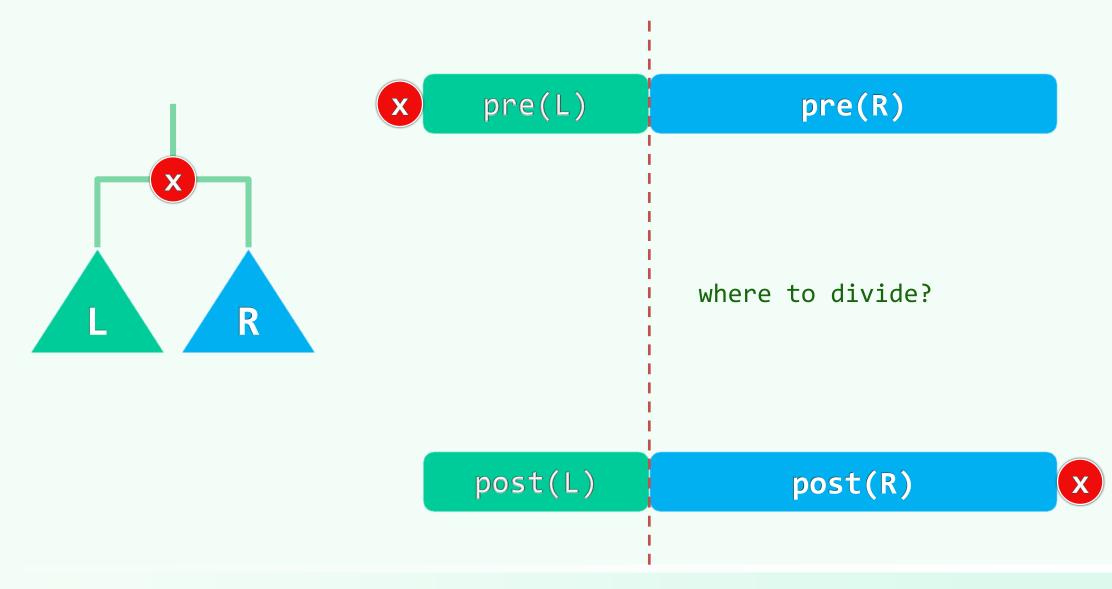
No matter where they take us, We'll find our own way back.

邓後辑 deng@tsinghua.edu.cn

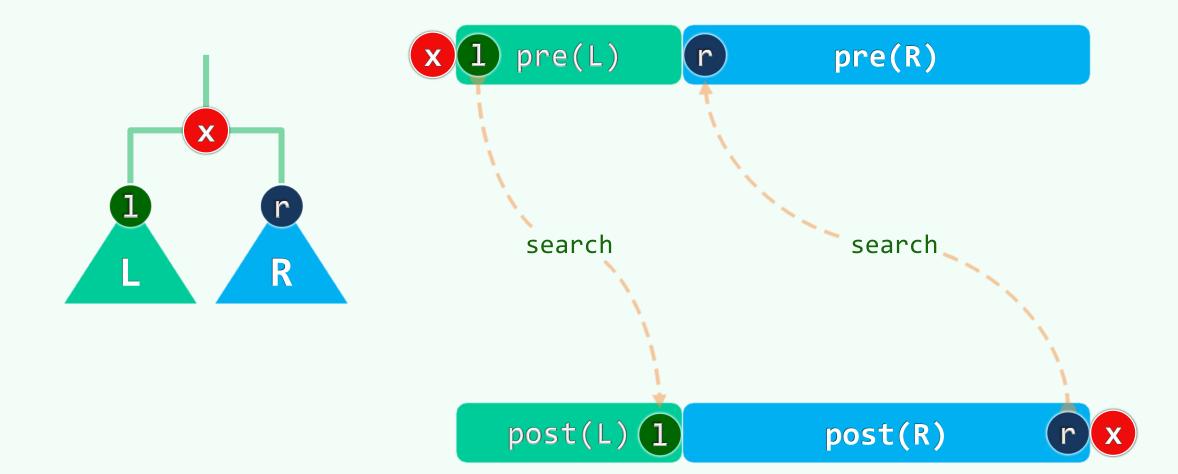
[先序 | 后序] + 中序



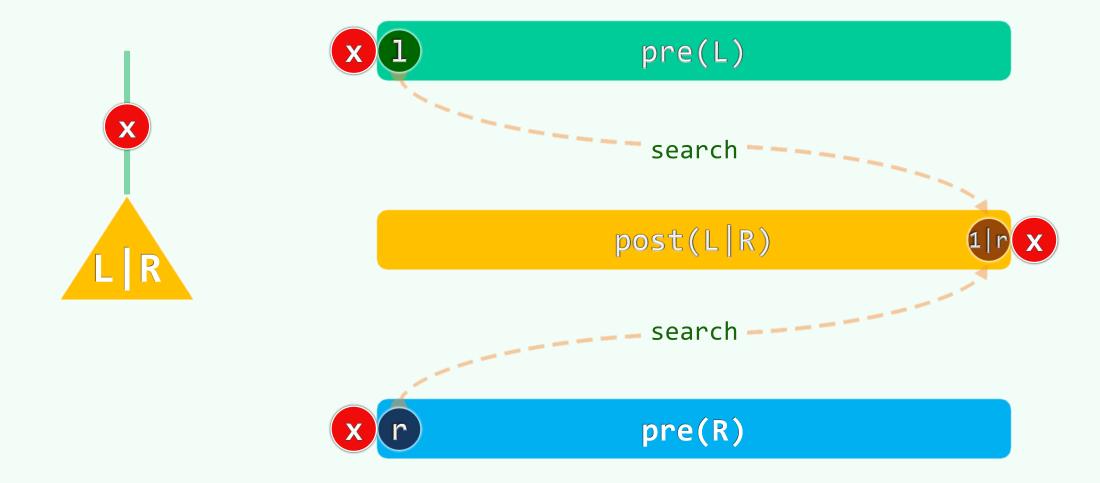
[先序 + 后序] ?



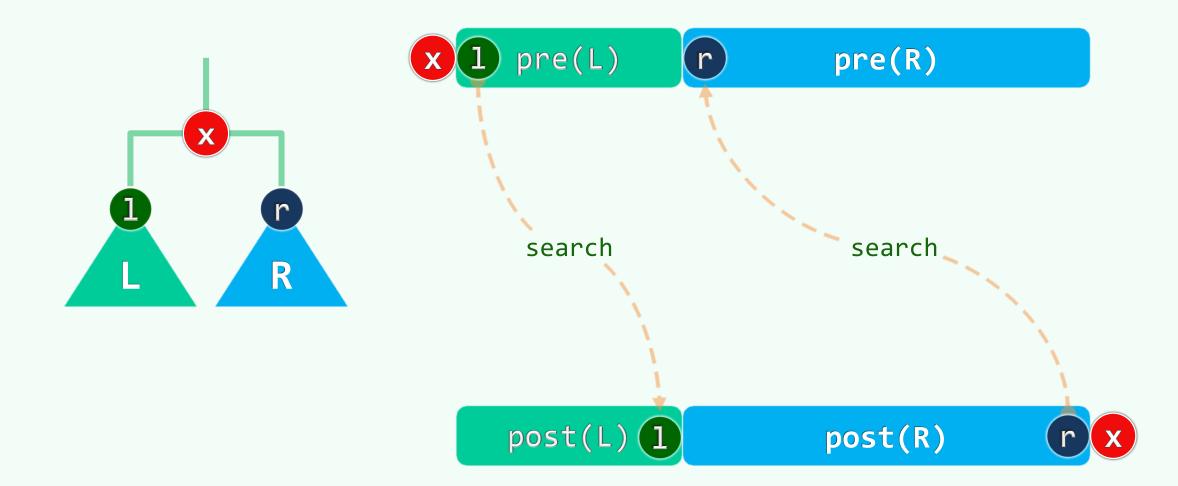
[先序 + 后序]!



[先序 + 后序] ? ?



[先序 + 后序] x 真!

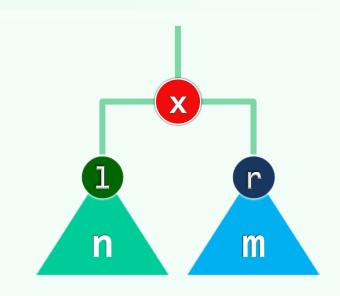


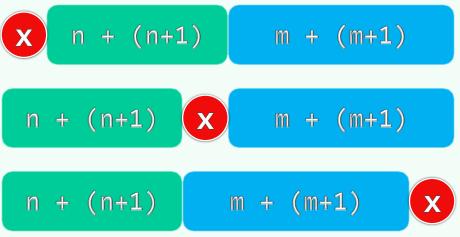
增强序列

- ❖ 假想地认为,每个NULL也是"真实"节点,并在遍历时一并输出 每次递归返回,同时输出一个事先约定的元字符"^"
- ❖ 若将遍历序列表示为一个Iterator,则可将其定义为 Vector< BinNode<T> * > 于是在增强的遍历序列中,这类"节点"可统一记作NULL

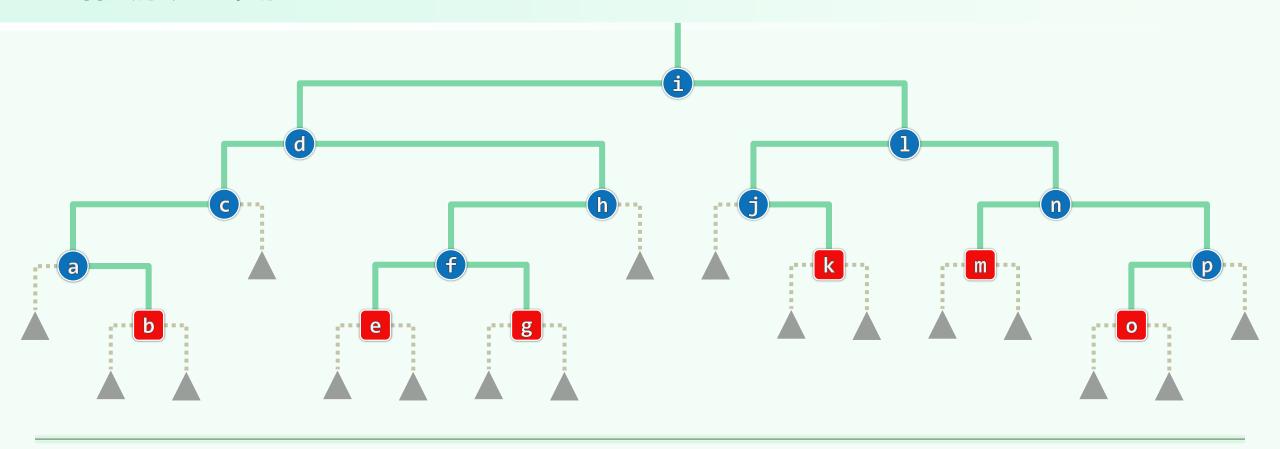


- 1) 任一子树依然对应于一个子序列,而且
- 2) 其中的NULL节点恰比非NULL节点多一个
- ❖ 如此, 通过对增强序列分而治之, 即可重构原树





增强序列:实例



```
preorder: idca^b^^hfe^^g^hj^k^^lj^k^^nm^^po^^^
inorder: ^a^b^cd^e^f^g^h^ij^k^lj^m^no^pp^

postorder: ^^ba^cd^e^gf^hd^^nd^^hkj^^m^oppnli
```