

Point Location

Node Copying

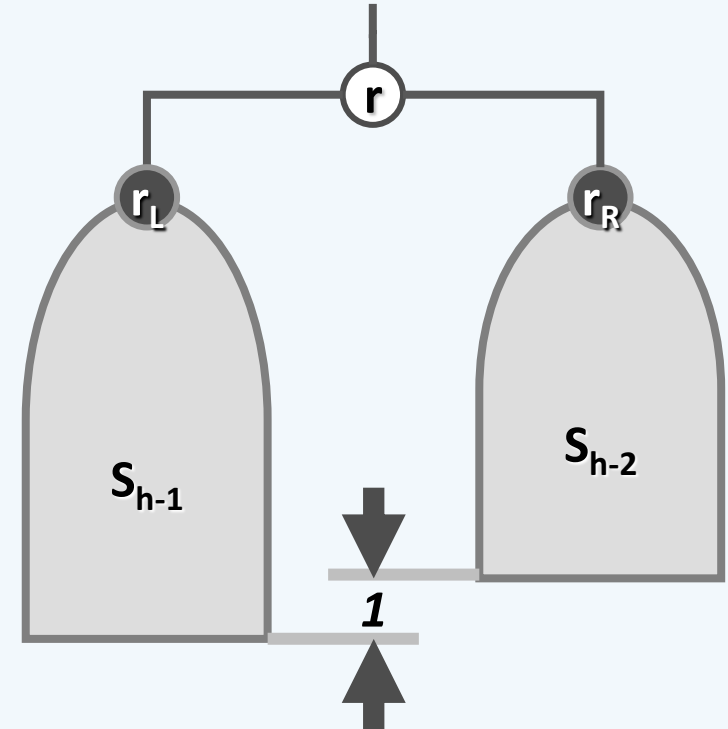
- Why Red-Black

Junhui DENG

deng@tsinghua.edu.cn

Why Not AVL

- ❖ An ephemeral BBST **might** need only $\mathcal{O}(1)$ pointer changes for each update
- ❖ An AVL requires
 - $\mathcal{O}(1)$ for each insertion but
 - $\mathcal{O}(\log n)$ for a removal



Why Red-Black

❖ A Red-Black needs

only $O(1)$ pointer changes

for each update,

either insertion or removal

