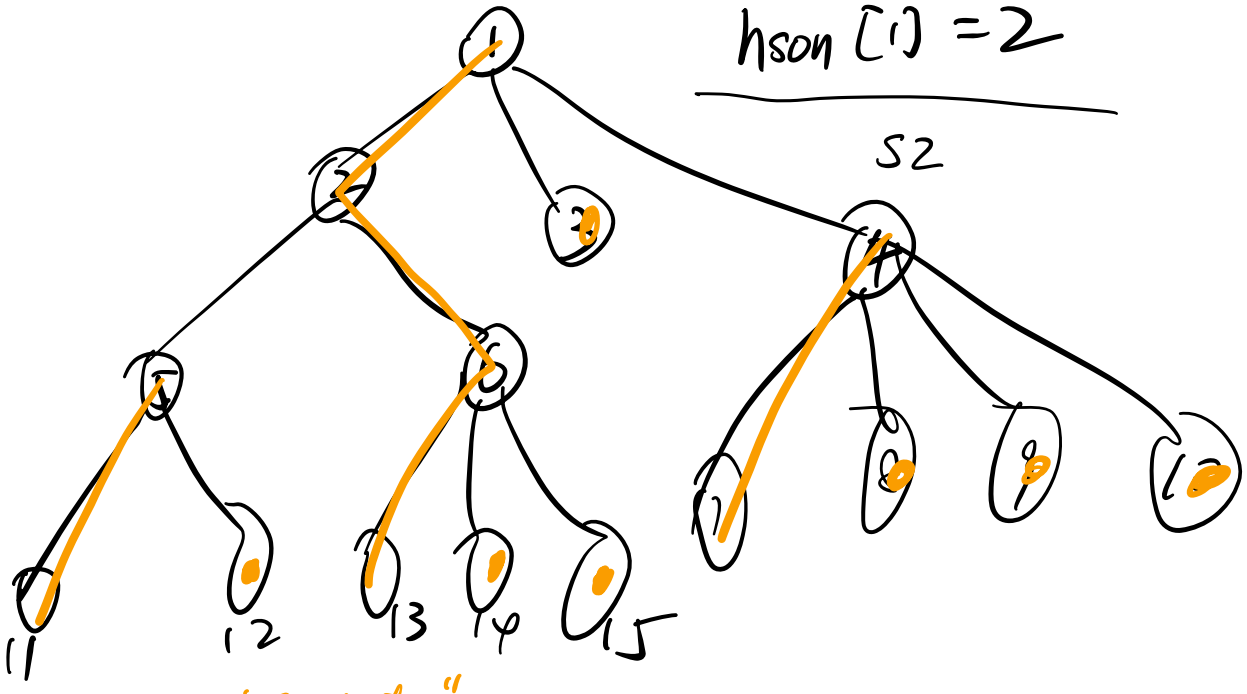


"重链"

u — hson[u] — hson[hson[u]] — ....

"重链顶" top

top[1] = top[2] = top[6] = top[13] = 1

top[5] = top[11] = 5

1. hson 2. top

top[hson[u]] = top[u]

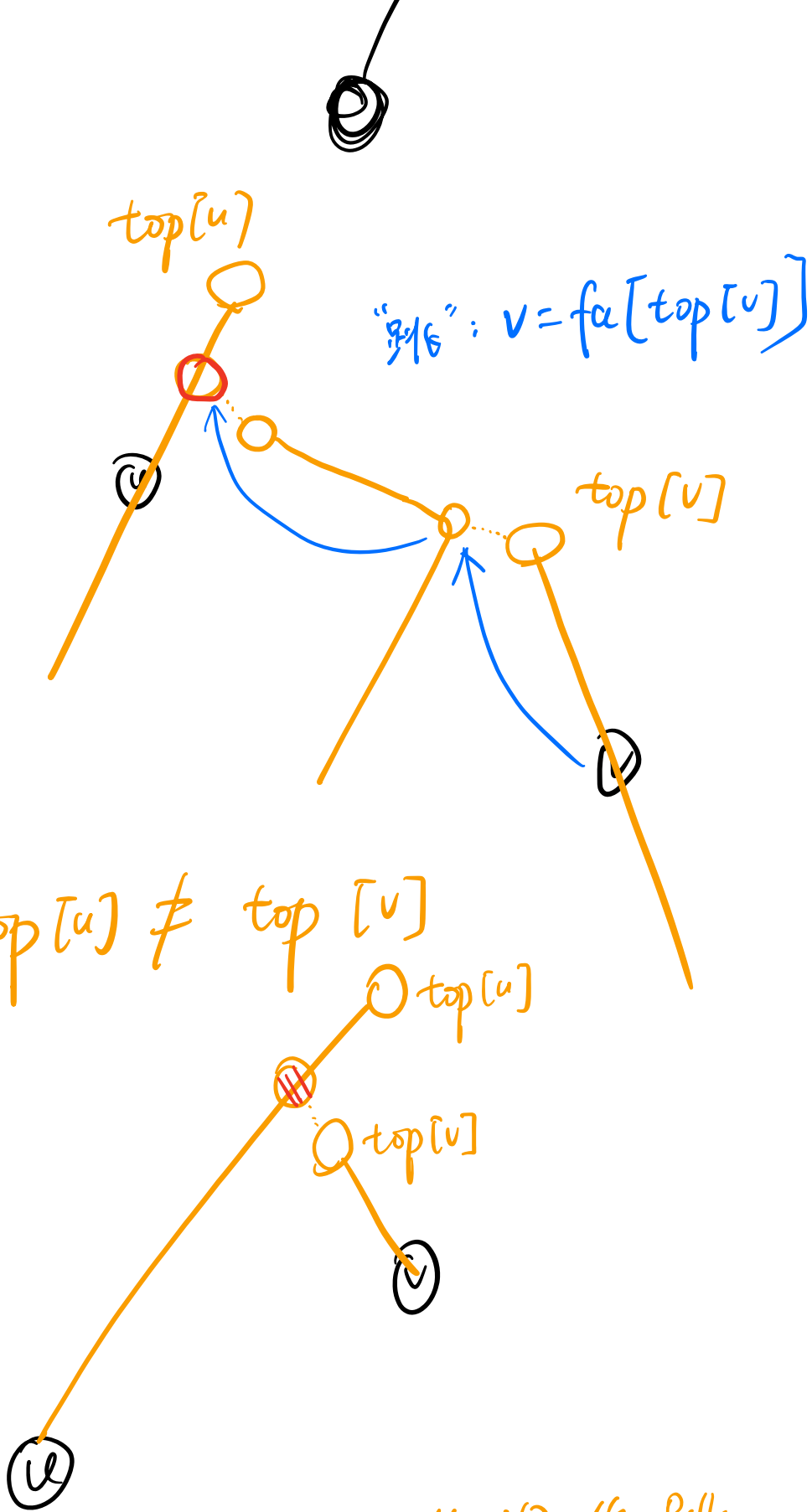
对于轻儿子 v, top[v] = v

dfs序, 线段树.

dfs1: 求 sz 和 hson

dfs2: 求 top.

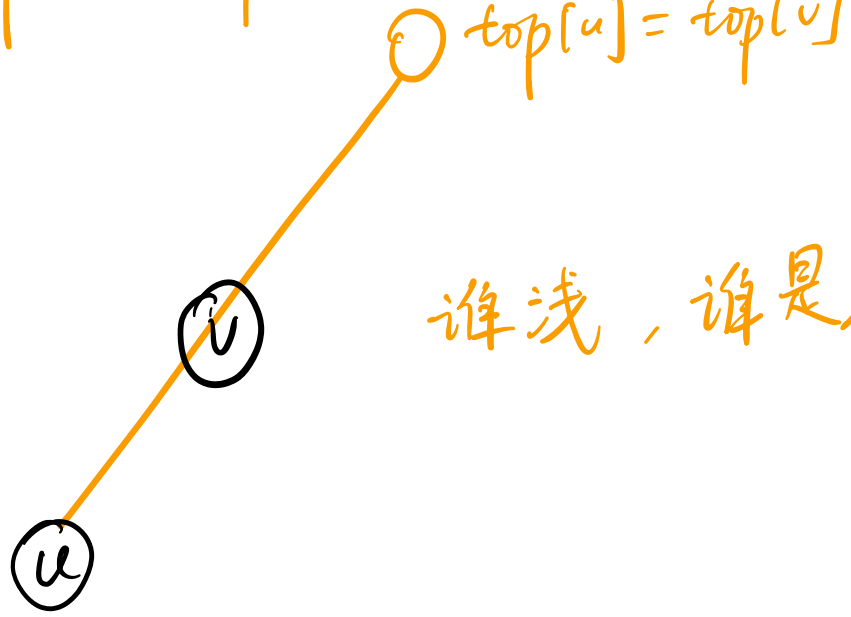
树上任一条路径至多经过 O(log n) 条重链.



若 $top[u] \neq top[v]$

$top[u]$ 和 $top[v]$，谁深谁跳。

若 top[u] = top[v]



谁浅，谁是祖先.