

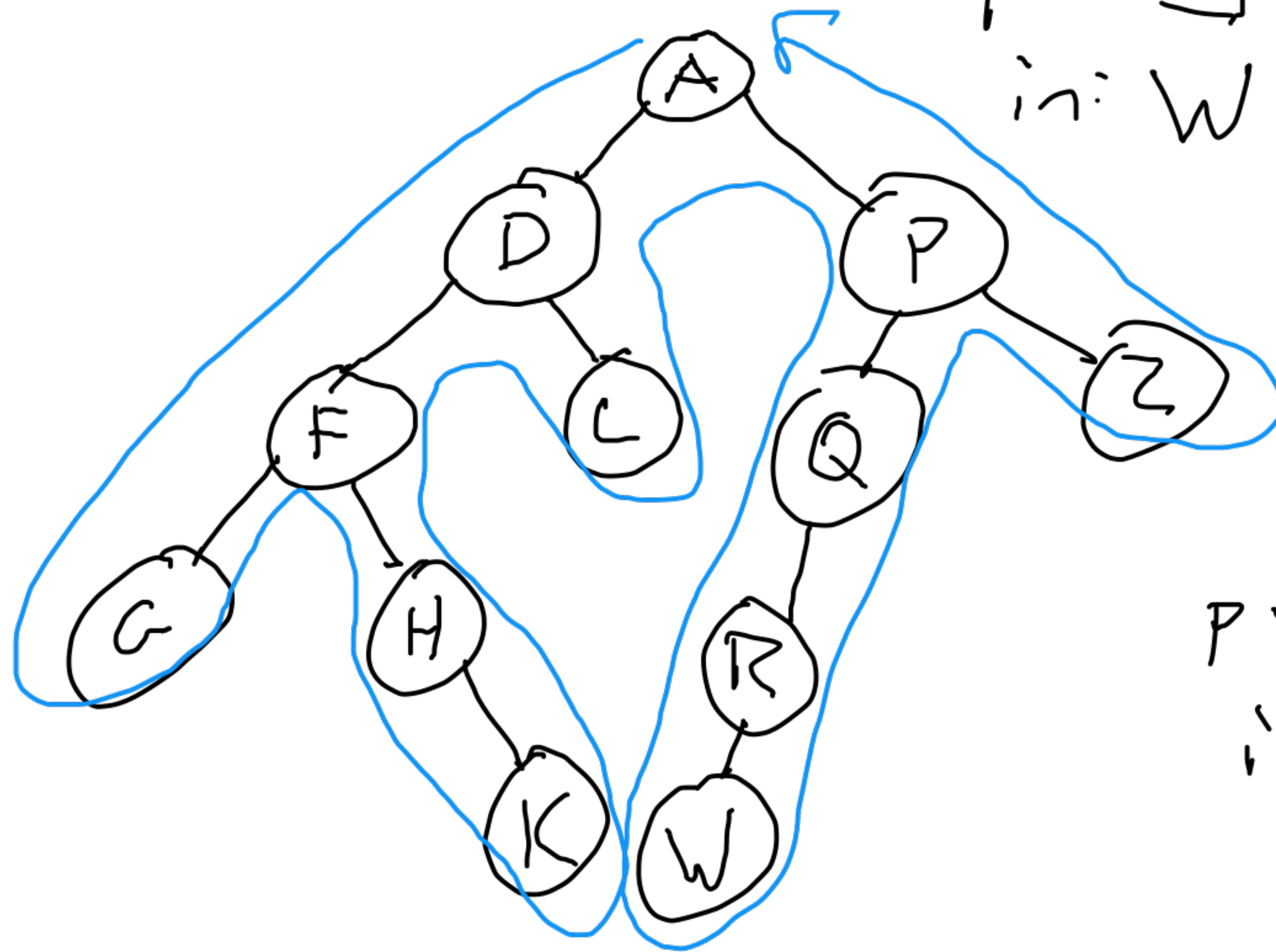
Constructing a tree from
pre-order & in-order traversals

pre: D/F G H K/L
in: G F H K/D/L

pre: P/Q R W/Z
in: W R Q/P/Z

pre: FG/H K
in: G/F/H K

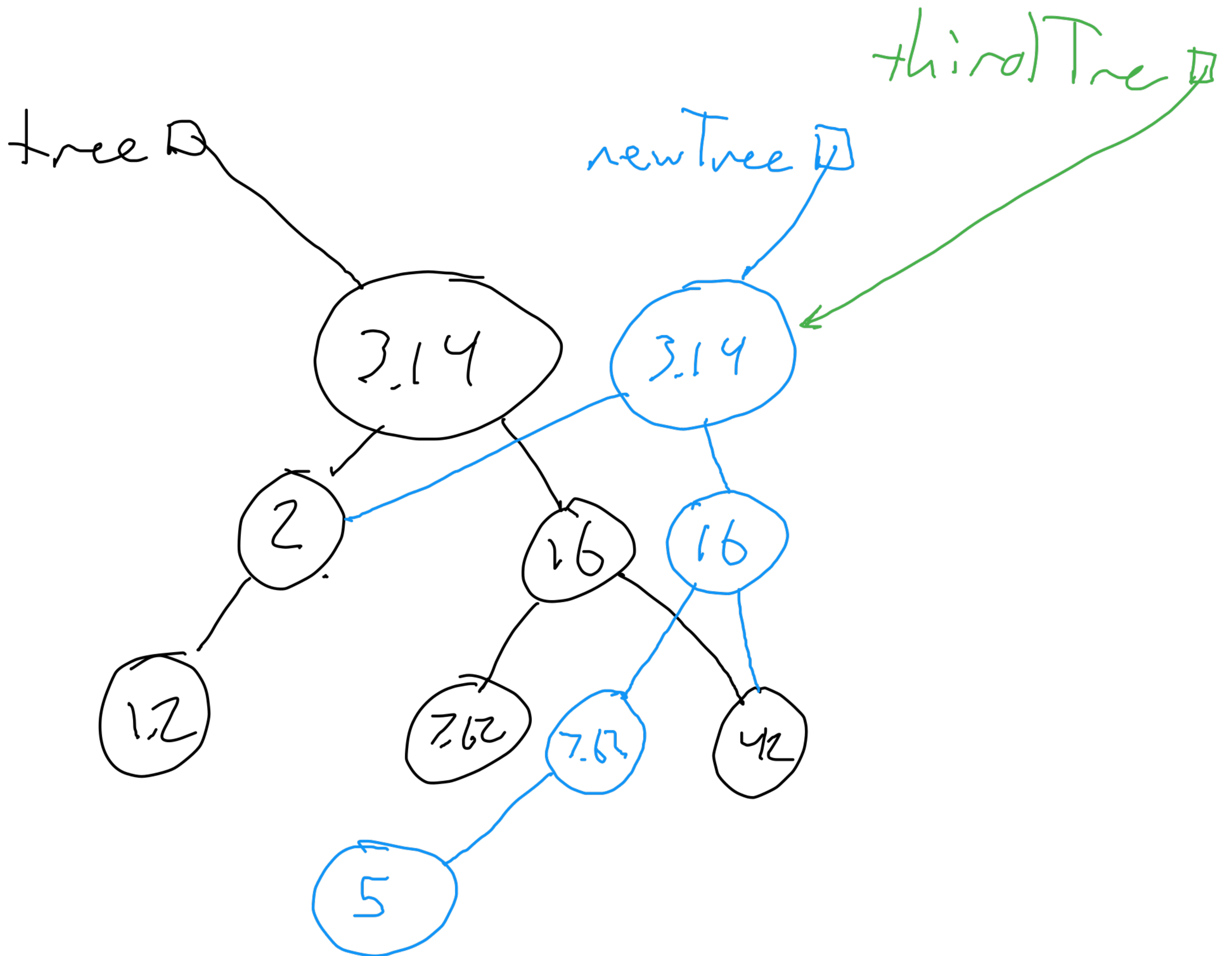
pre: HK
in: H/K



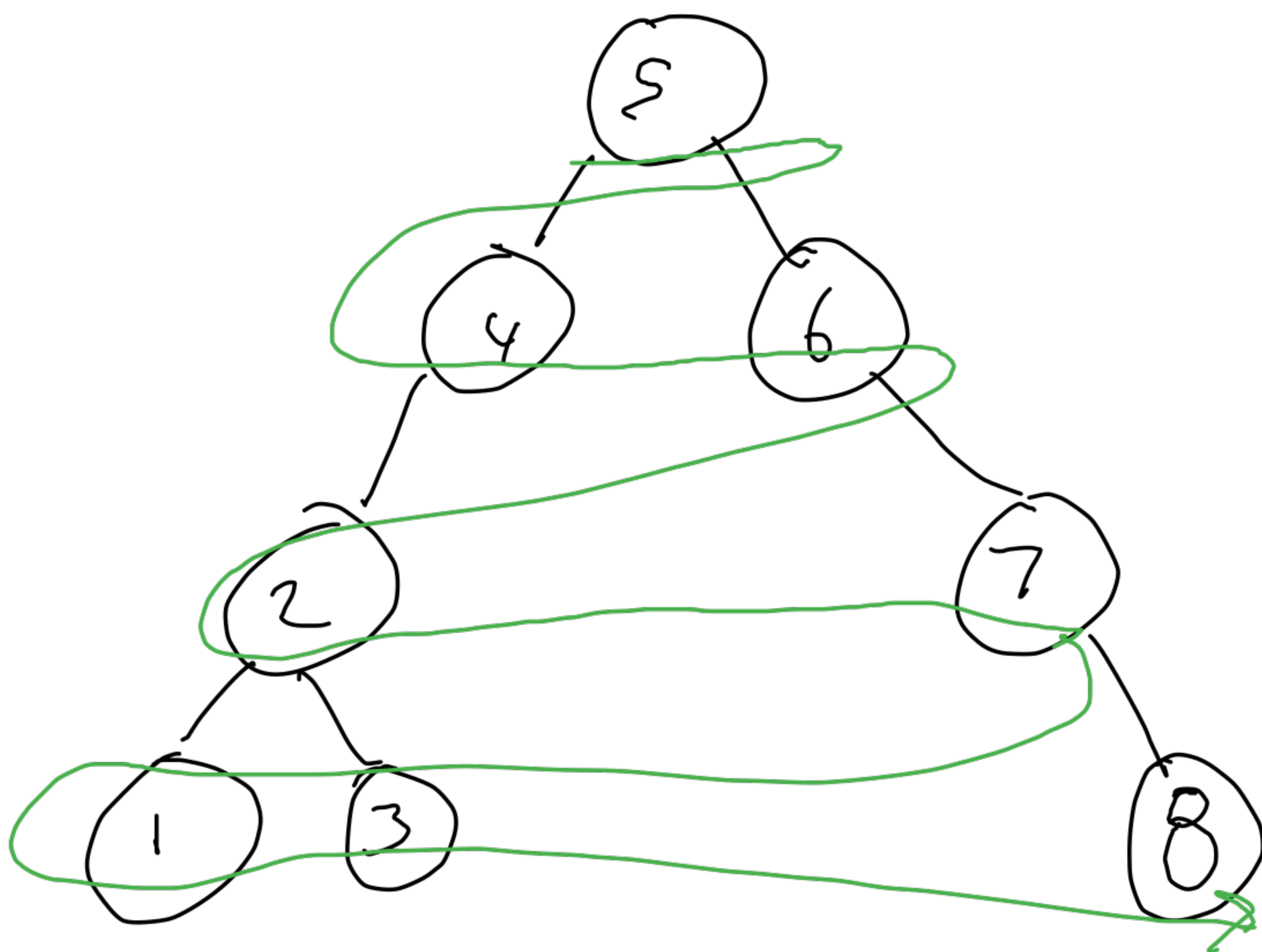
pre: Q/R W
in: W/R/Q

pre: RW
in: W/R

Immutable Trees



Breadth-first traversal

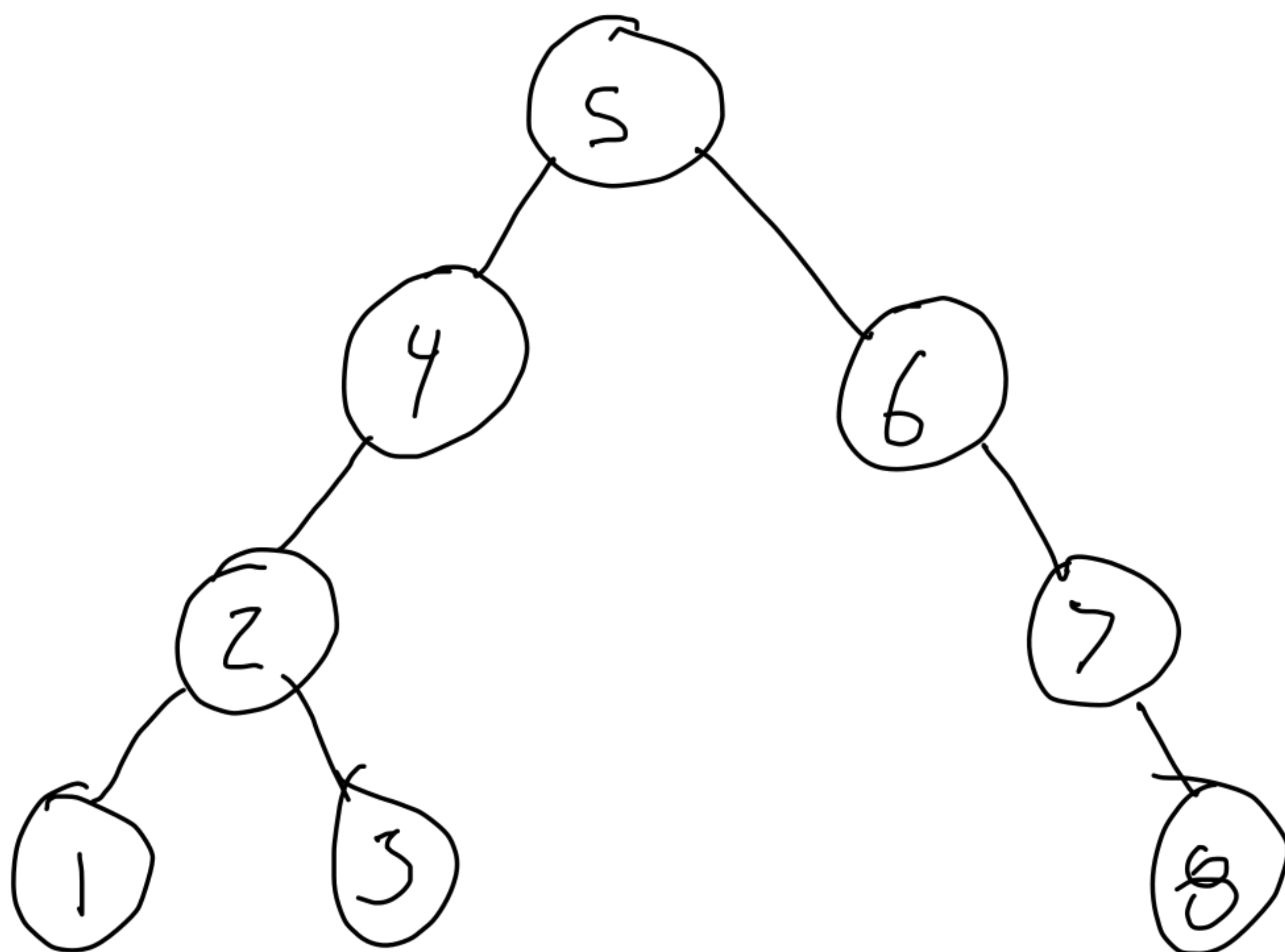


queue: ~~8~~ ~~4~~ ~~6~~ ~~2~~ ~~7~~ ~~1~~ ~~3~~ ~~0~~ →

current 8 4 6 2 7 1 3 0

visit order: 5, 4, 6, 2, 7, 1, 3, 8

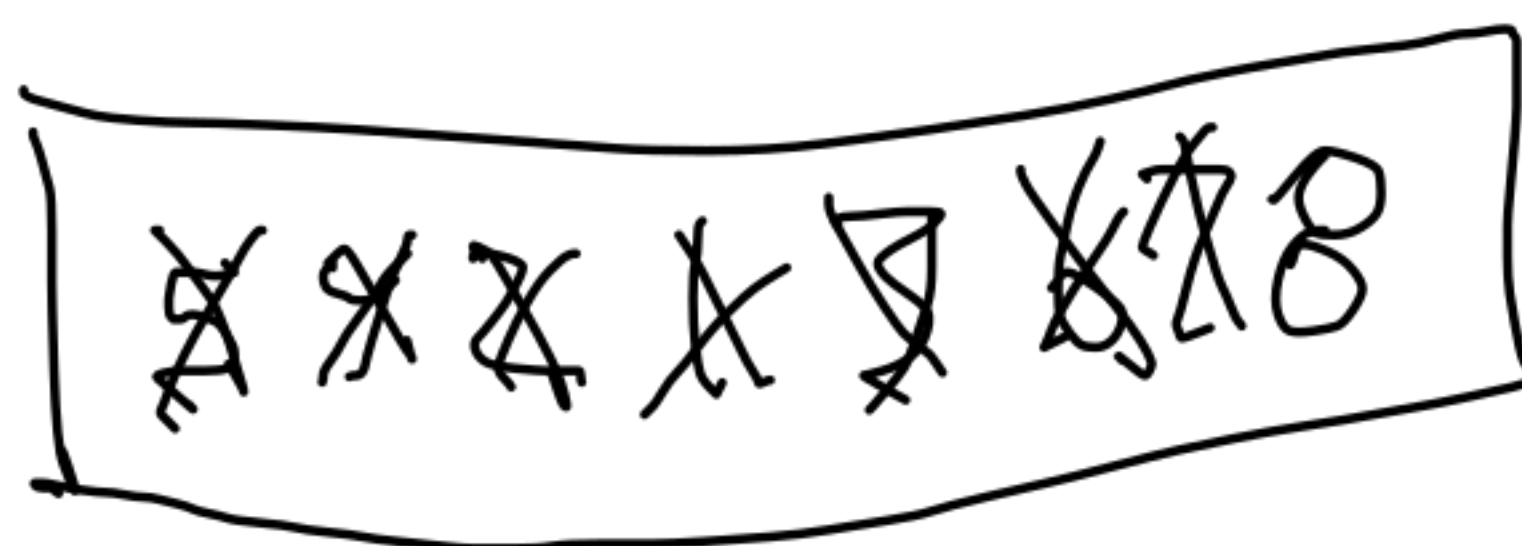
Non-recursive depth-first traversal



stack:



current:



visit list: 5, 4, 2, 1, 3, 6, 7, 8