HW 2 ,
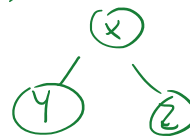
① Priority Queue

Abstract data Type (Specification)
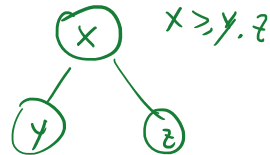
→ implemented via   Min-Heap

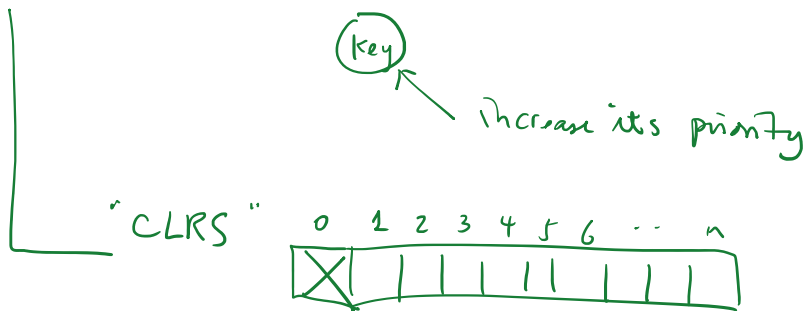$X \leq Y$
$X \leq Z$

Heap Sort
Max , Heap

$X \geq Y . Z$

HW2 Priority Queue

(key)

← increase its priority

"CLRS"   0 1 2 3 4 5 6 ... n

Leonardo Heap

L_{n-1} L_{n-2} L_n

→ HW2 { check # of comparisons made)
    → How to Maintain a collection of Leonardo Heaps ??
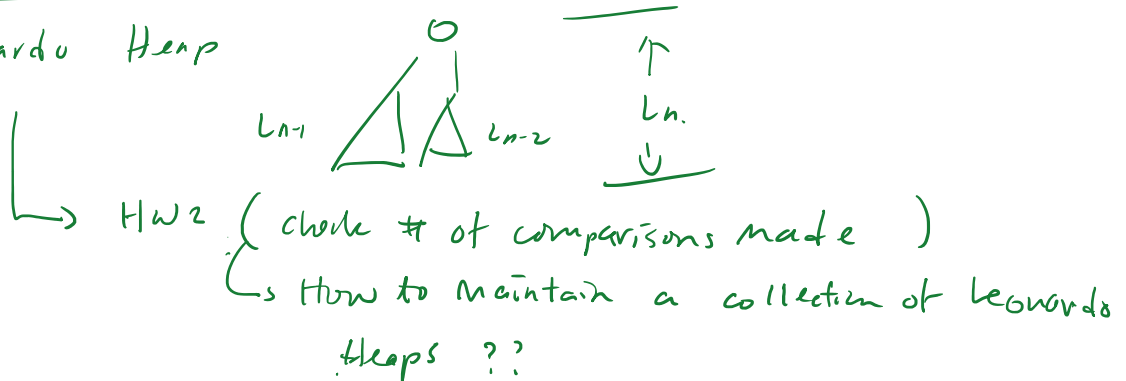
DSW Algorithm

→ Turn the Binary Search Tree to be Balanced

At any node n

height (n) = Max { height (T_i) ,

At any node n

$height(n) = Max \{ height(T_1), height(T_2) \} + 1$

balanced when $| height(T_1) - height(T_2) | \leq 1$

Slide 13

left

right