

Treaps Page 1

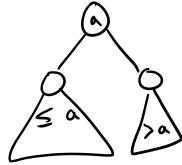
Tree Cartesian

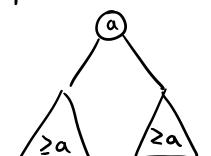
BST value

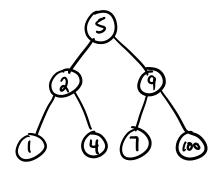
heap value

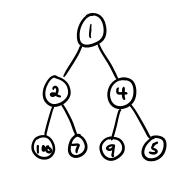
OST property





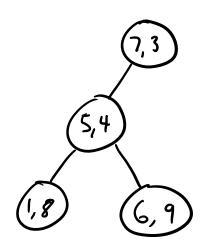






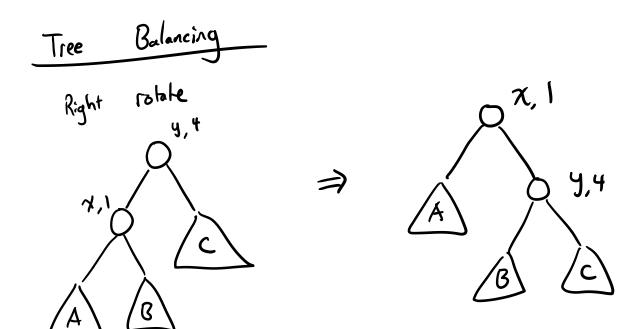
(1,8)

(7, 3) (5,4)

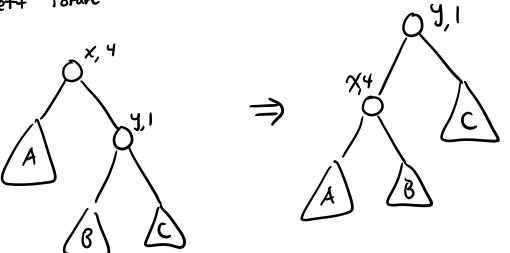


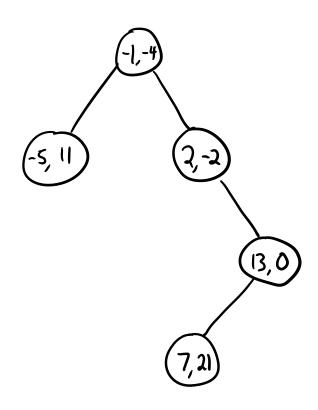
Treap:

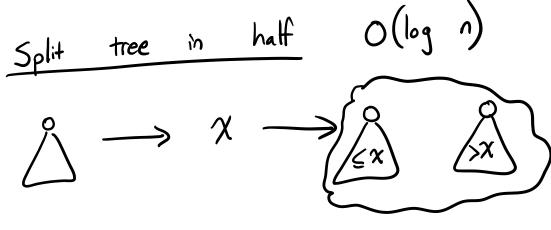
$$\chi = \text{key}$$
 Sould $y = \text{randomized}$ Sould Cartesian Tree



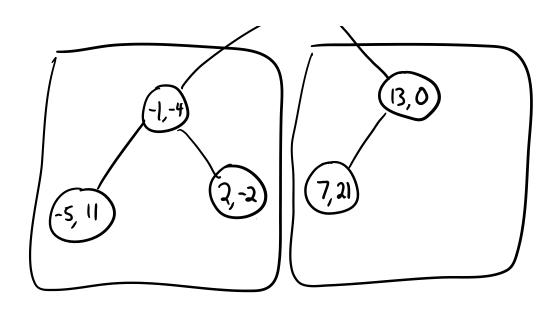
Left solale











azb cadbaabcabbb

- insert a character into string

- delete a character from string

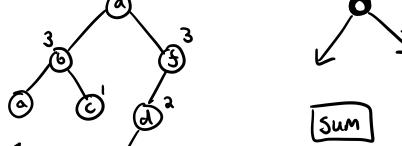
- move pieces around

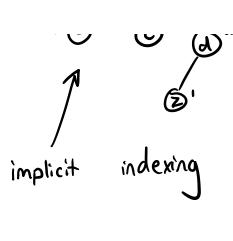
Rope

abcaldf in order to

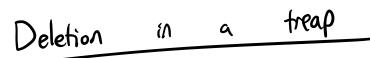
abcaldf 3

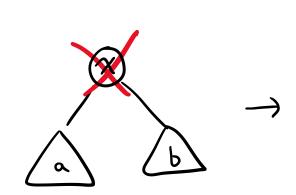
abcaldf 3



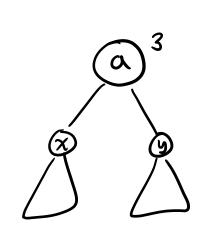




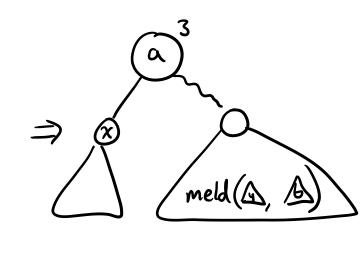


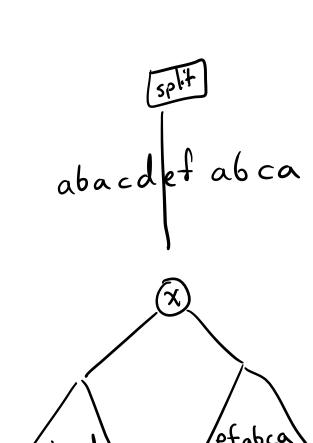


Meld











aba arupguha zzz

reverse O(log n) (propagation)

aba ahug pura zzz

<u>©</u> °

