Hash table insert us demove: always

Insort (1,2)

(1,3) worst-core

(1,3) borst-core

(1,3) borst-core

1131-1121-1 remove() Only remove (1,3)

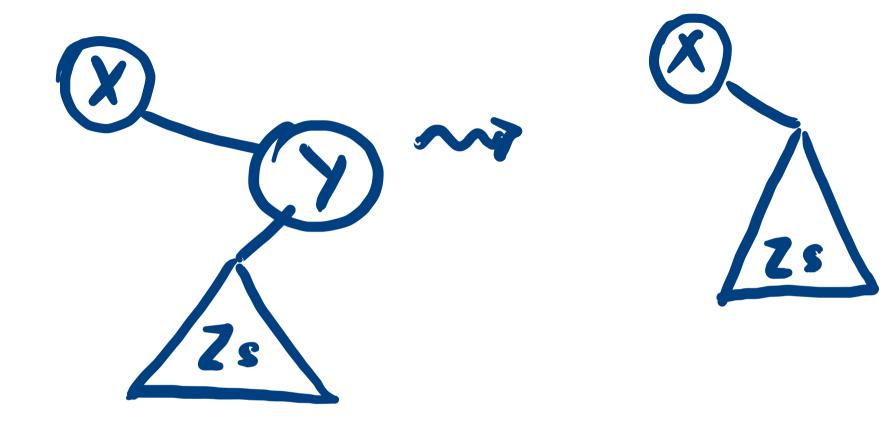
the first point on time. remove ()

• Key=15

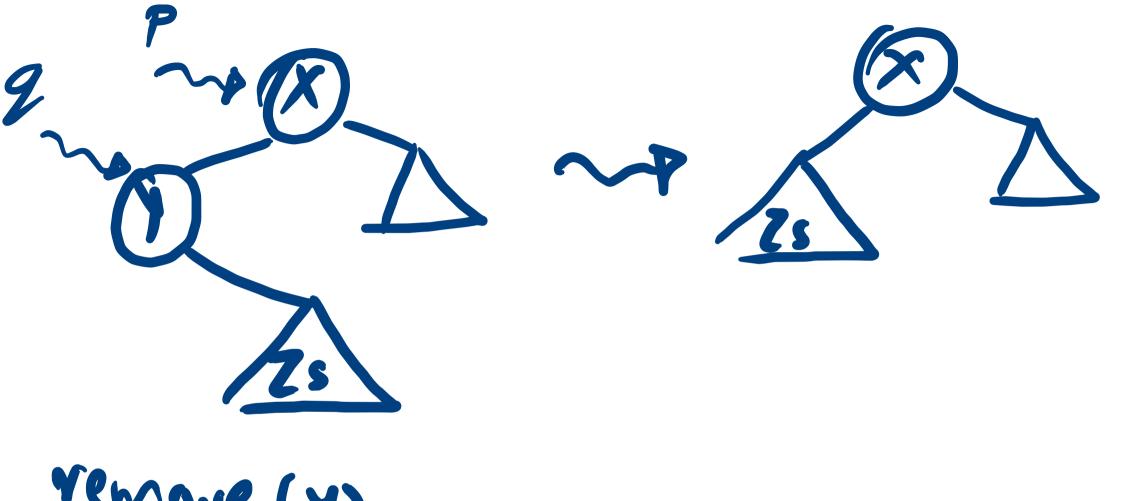
Teplace

To - vight

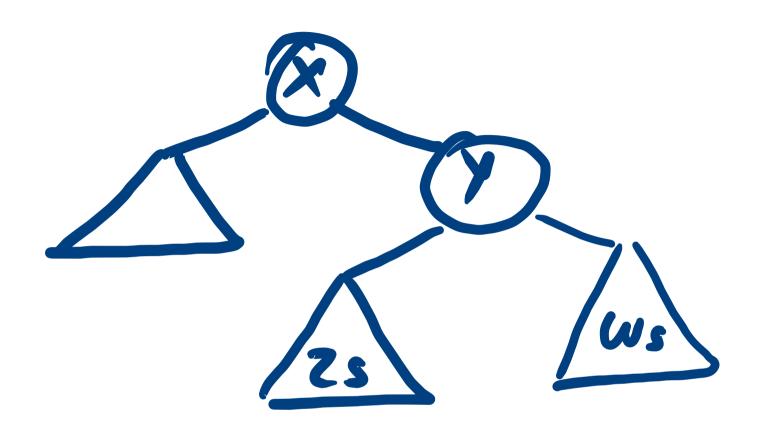
With ANL

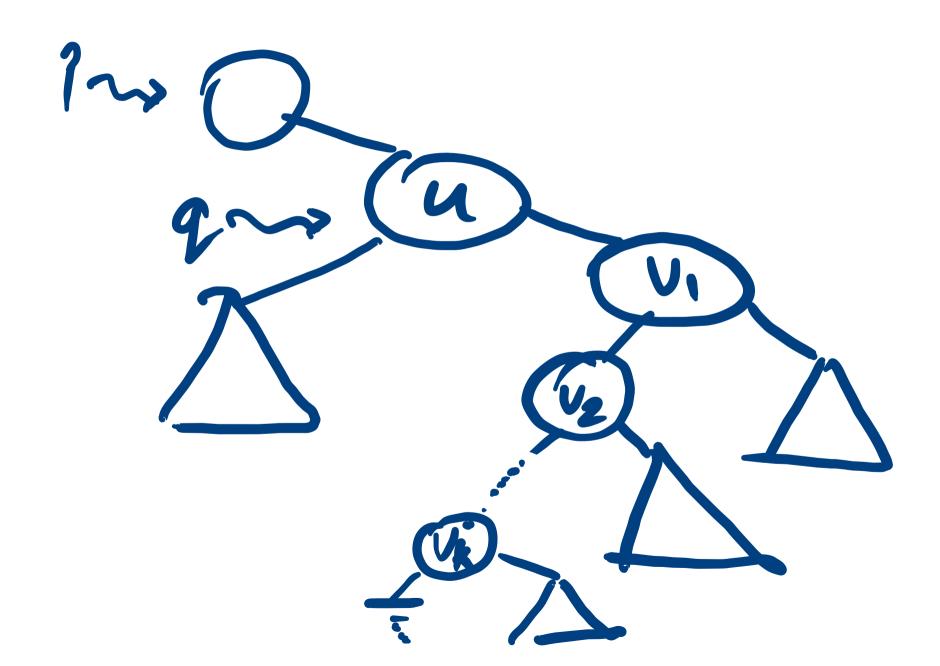


We remove y by Setting X. right to Point to the root of Zs.



remove (4)



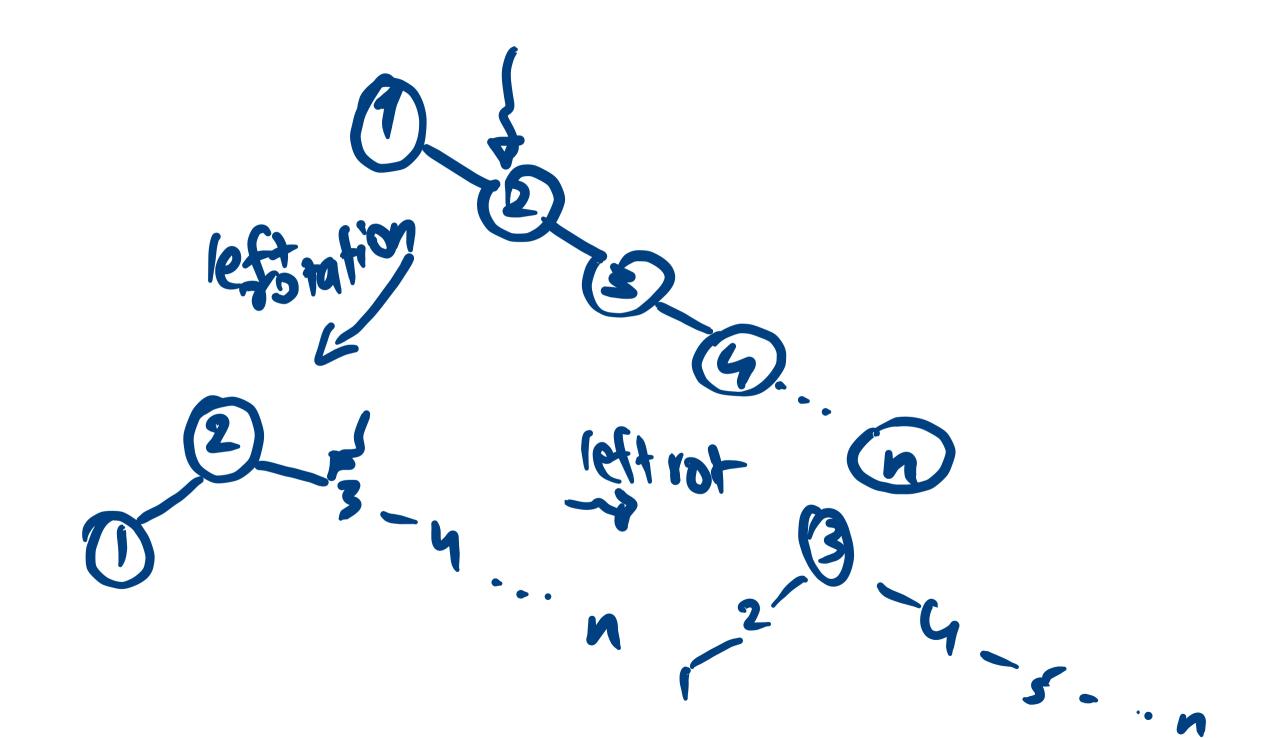


Bsts have bad and good insertion sequences Soln: Randomized insertion sequence

· Balanced BST

AVL trees

I Red-Block twees.





Jummary (DSA1) Model problems using graphs.

L DFS | whole graph exploration.

L BFS IN DSA2 - Mesign of Prublem-specific algorithms

mplementation Alvays Ring buffers Linked lists: qwws dictionomers data structions. Red-Black trees Bivery Maß treaps, Tibonacci heaps,