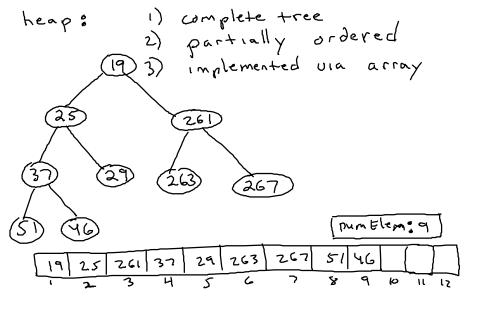
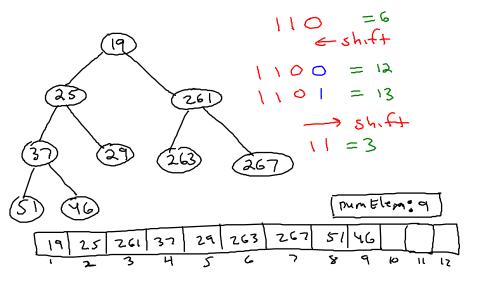
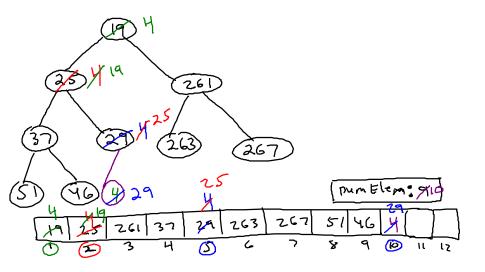
## CS 225

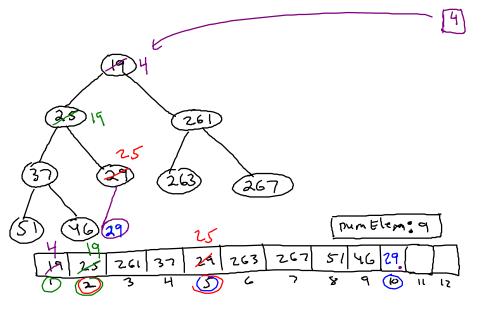
Priority Queues: Implementation

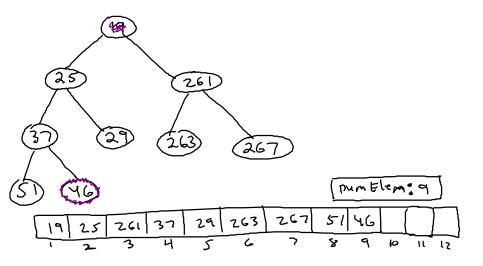
Disjoint Sets : ADT

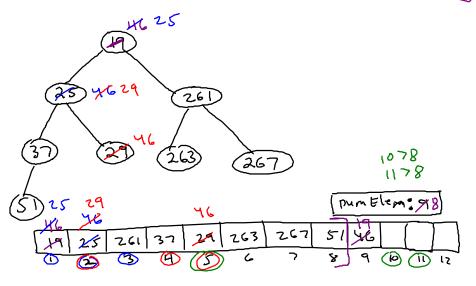


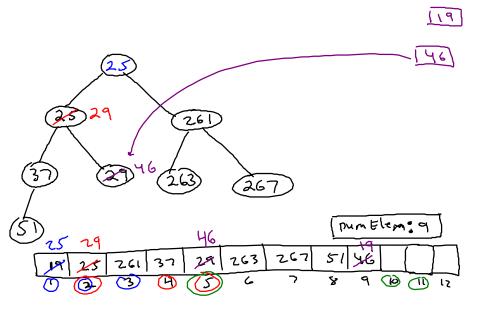












Find Min : 0(1)

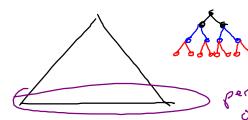
Insert

₩ worst case

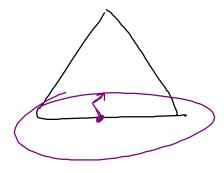
o constant time per level

. O(lg ~ ) levels

() insert in worst case is O(lgn)



perfect tree, 750% of values are in bottom row of tree



of values are in

up two or three levels

O(1) insert aug

Delete Min

O(lg n)

Delete Min

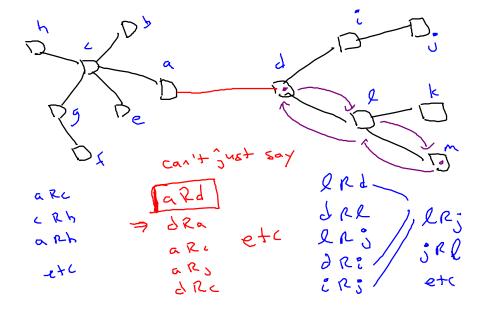
aug case 8

worst care

are O(lg n)

Disjoint	Sets
3	

=0	=3
	=4
<u>=2</u>	=5



Joid Union [Set A, Set B)

to add a Rd

what set is "a" in?

what set is "d" in

if not same set, union sets

Set Find (element x)

to find out if a Rd

Find (a) == Find (d)