

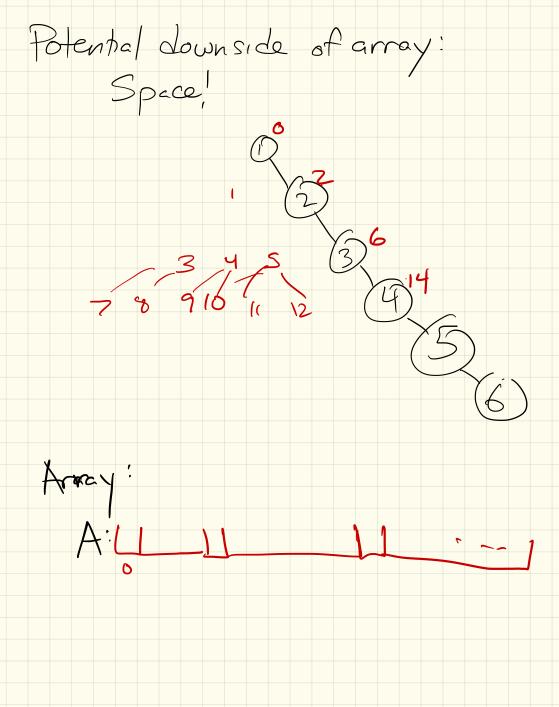
Recap

- HW due

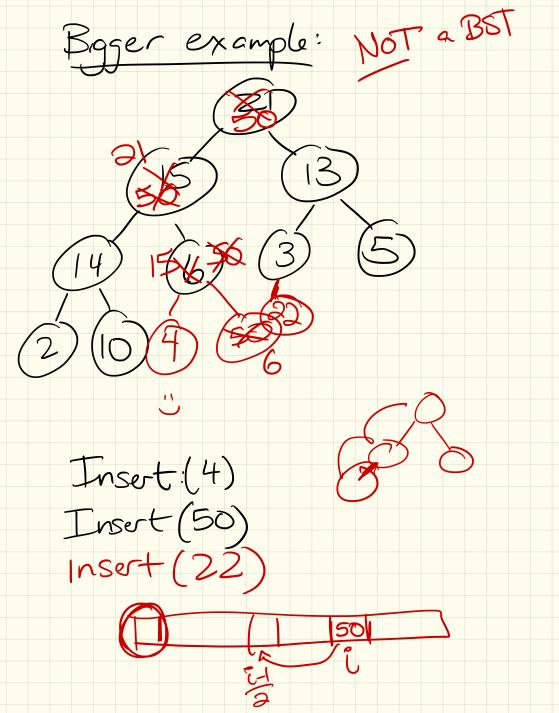
- Next HW: up

- Reading Due Monday

Mote: For BST honework:
do not use
recursively Delete delete And Promote Left Child (Right) Array - based tree storage: 3 3 4 15 5 4 6 7 (11) 4 2 (10) 11 12 13 14 left(v) = 2v+1 right(v) = 2v+2 parent(v) = [V-1]



(Max)
Heap: A binary free where:
(not BST) OFor every node v (other than r)
the Den Stored at V is
E key stored at V's parent 3 The tree is complete: levels O... h-1 are full to h is filled in left to right. Desatons: "Insert Instead,
o get Max but
o remove Max Fast



Harder! remove Max Zuntre C(log n)
(fastor in practice
than AVL)

The abstract data type:
priority queue (in reading
Note: Could implement PQ
Note: Could implement PQ with lists, too!
(How?) (O(1)
Now: Implementation!
Now: Implementation! (on web page)