

Find median of  $[3, 5, 0, 39, 40, 41]$

it is  $\frac{5+39}{2} = 22$

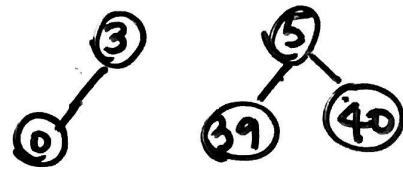
by raywu and JK

1) MAX MIN  
3

5) MAX MIN  
 $40 > 3 \therefore \text{add to MIN}$

2)  $5 > 3 \therefore \text{add to MIN}$

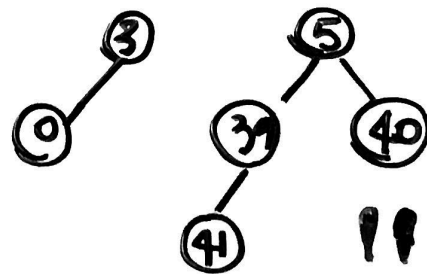
3 5



3)  $0 < 3 \therefore \text{add to MAX}$



6)  $41 > 3 \therefore \text{add to MIN}$

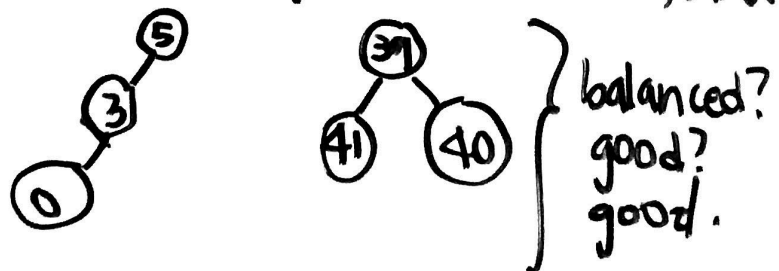


4)  $39 > 3 \therefore \text{add to MIN}$



!!!  $\Delta \text{size} > 1$

Remove from MIN  $\rightarrow$  MAX



balanced?  
good?  
good.

med =  $\frac{5+39}{2}$

= 22 !!!

all items in  
[ ] traversed