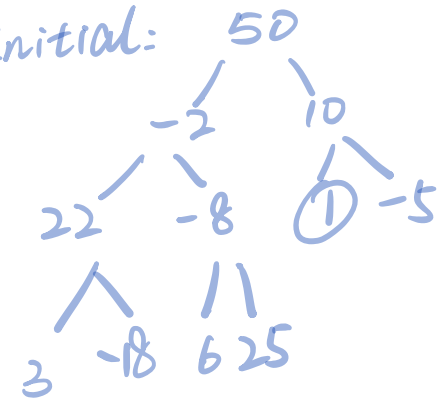
Initial:



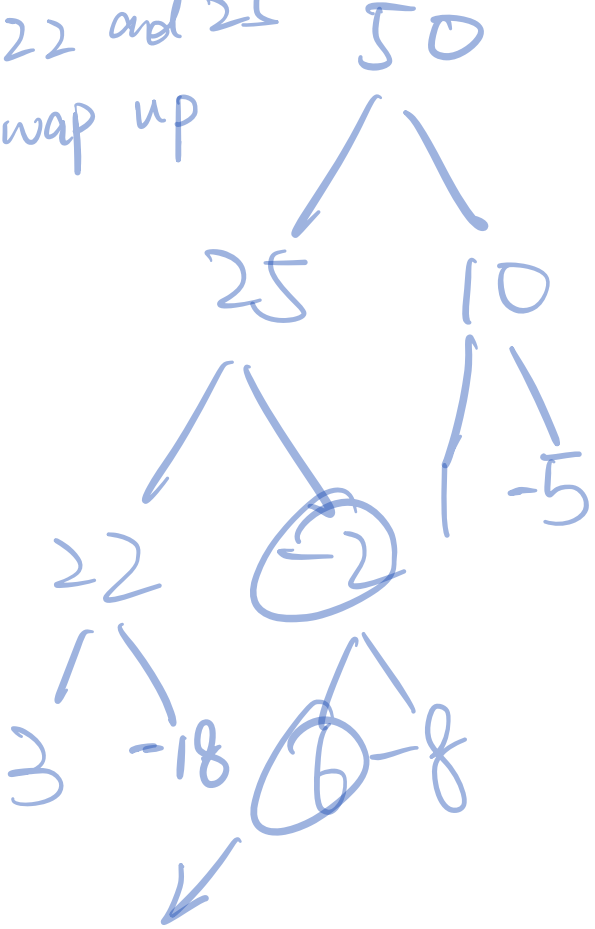
(1) Start at Index 5
(n/2 - 1 for n = 11)
⇒ which is number 1,
don't have left or right
root. keep same.

(2) move to index 4. numbe -8
Chmpare -8 with 6 and 25.
Since 25 is greater. swap
-8 and 25

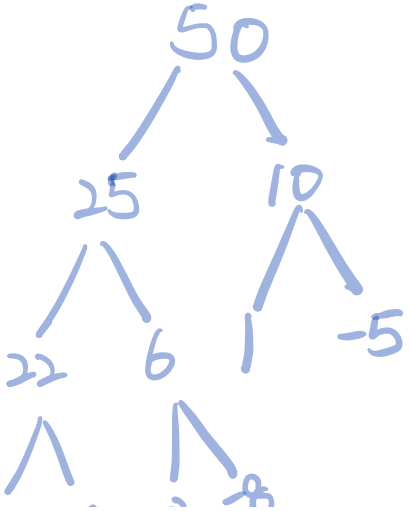
(3) move to index 3. number 22
compare 22 with 3 and -18
22 is greater, no change

(4) move to index 2 number 10
Compare 10 with 1 and -5
10 is greater, no change

(5) move to index 1 numbe -2
compare -2 withe 22 and 25
25 is greater, swap up



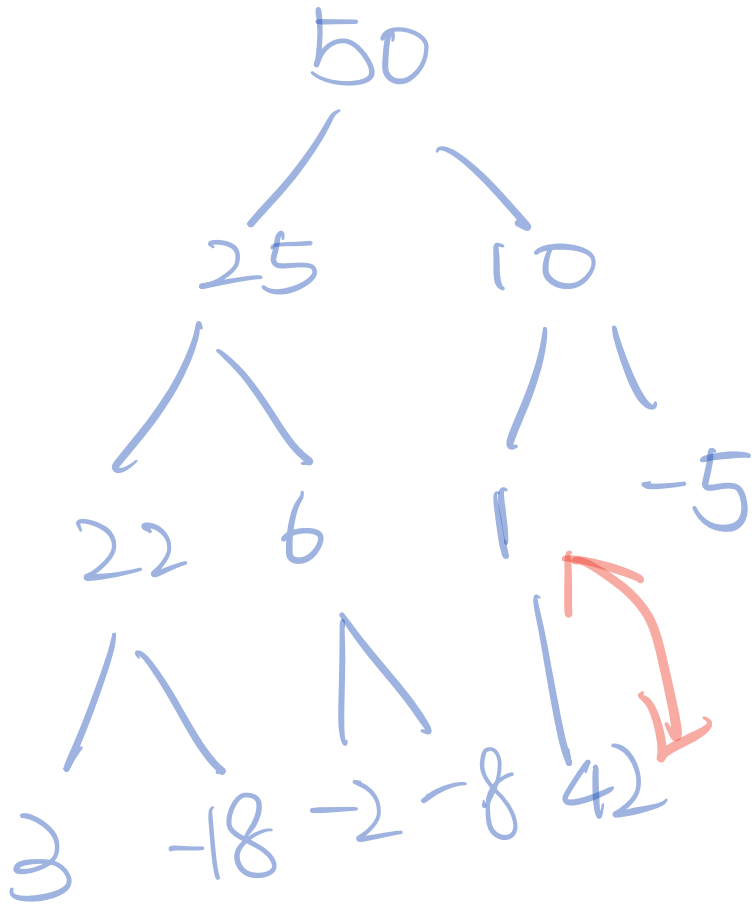
(6) and 6 is greater than -2, swap up.



(7) move to index 0, number 50. compare 50 with 25 and 10. 50 is greater no change.

3 -18 -> 0

1) Insert 42

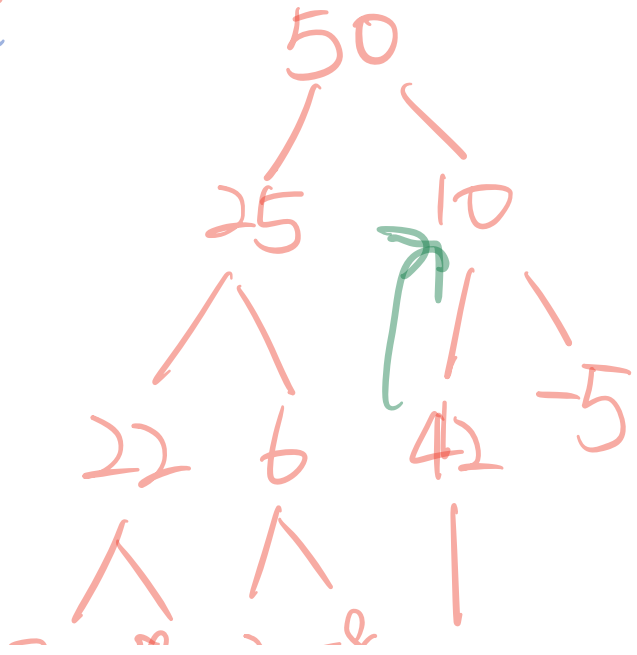


42 > 1

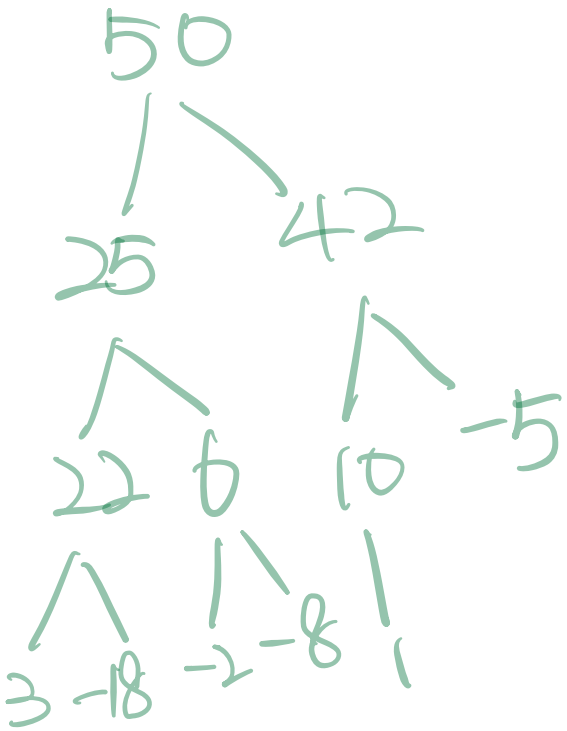
swap up

42 > 10

swap



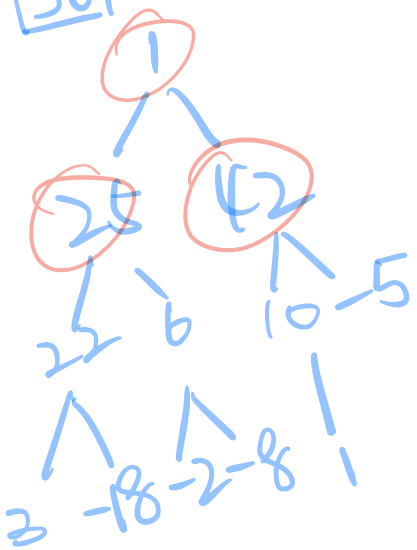
3 -18 -2 -8 1



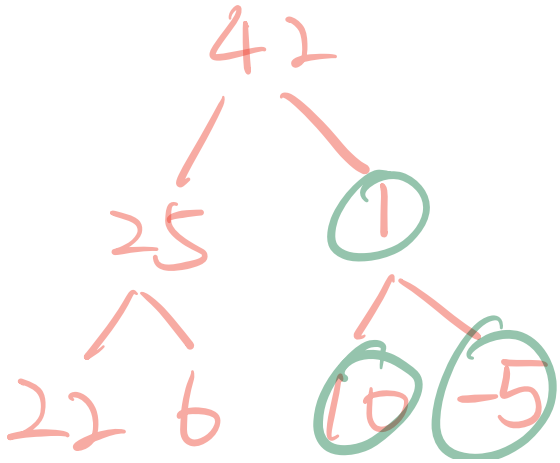
Remove largest element from the heap.

A[1] = A[12] = 1

Max 50



42 > 1 swap



10 > 1

swap