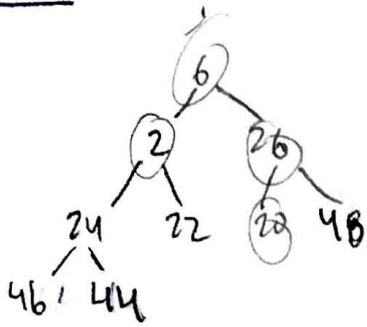
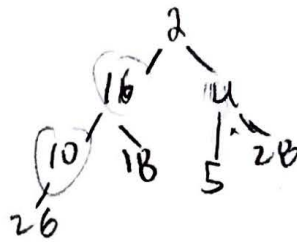


Part A

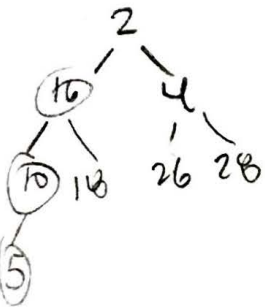
Ang 1 More



- not valid because 20 should be in 26's place.
2 should also be the root

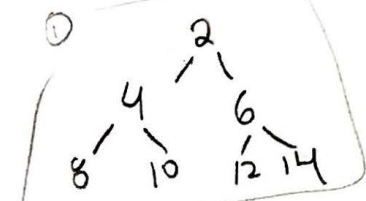


not valid b/c 16 and 10 should be swapped. all parents should be less than children.

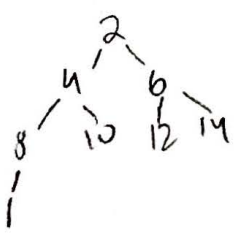


not valid b/c 5 should be in 16's place, 10 can stay, and 16 should be in 5's place.

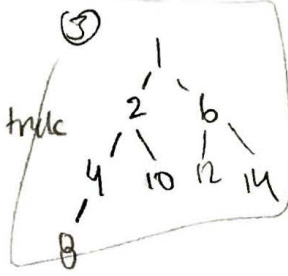
Part B



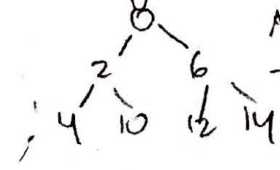
insert 1:



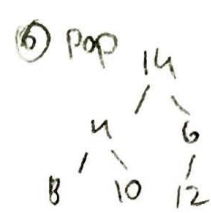
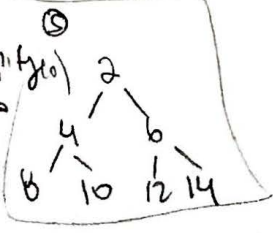
after tree up



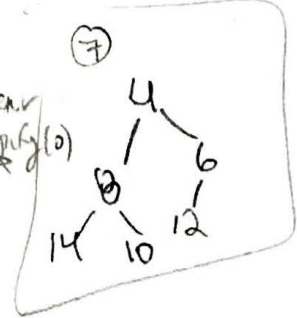
pop



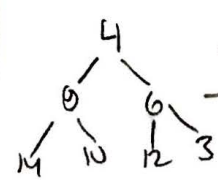
After heapify(0)



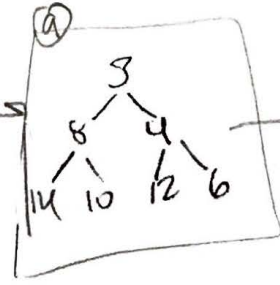
After heapify(0)



insert 3



tree up



Final tree

* tree up! compare child with parent and swap if its less than parent.
* heapify compare parent to children and swap with lowest one, its greatest to