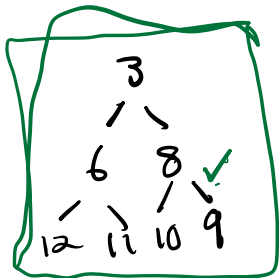
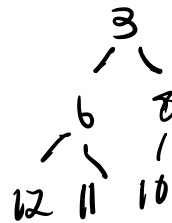
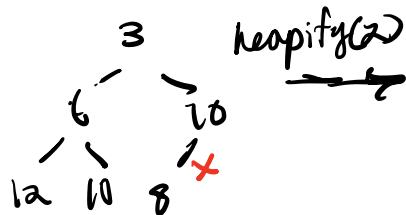
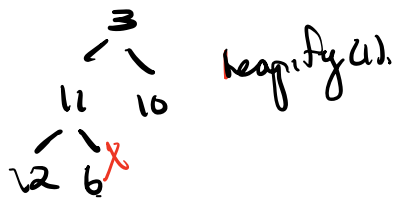
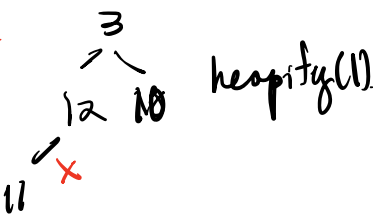
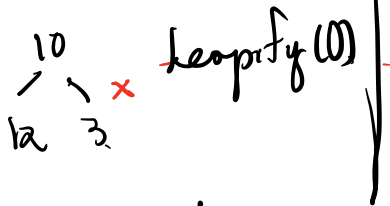
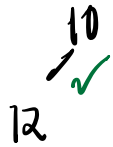


Green Boxes are answers!

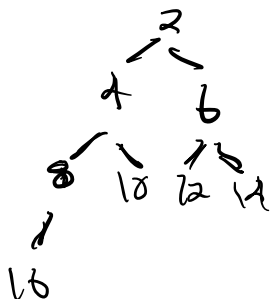
4a. $[10, 12, 3, 11, 6, 8, 9]$

make heap

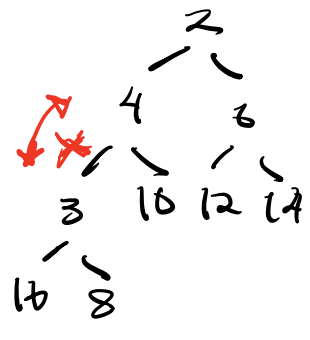
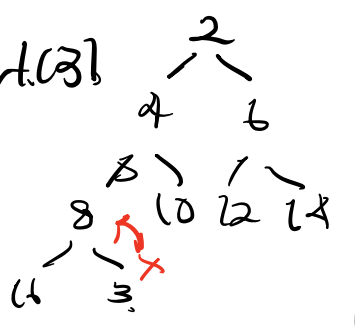


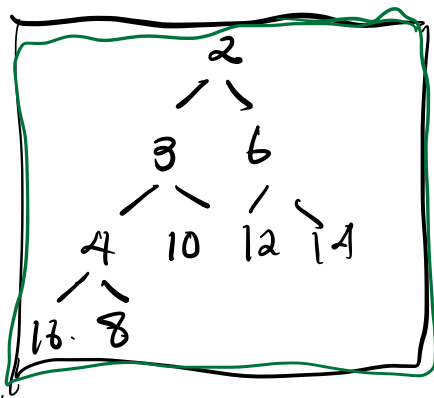
min heap satisfied

4b $[2, 4, 6, 8, 10, 12, 14, 16]$



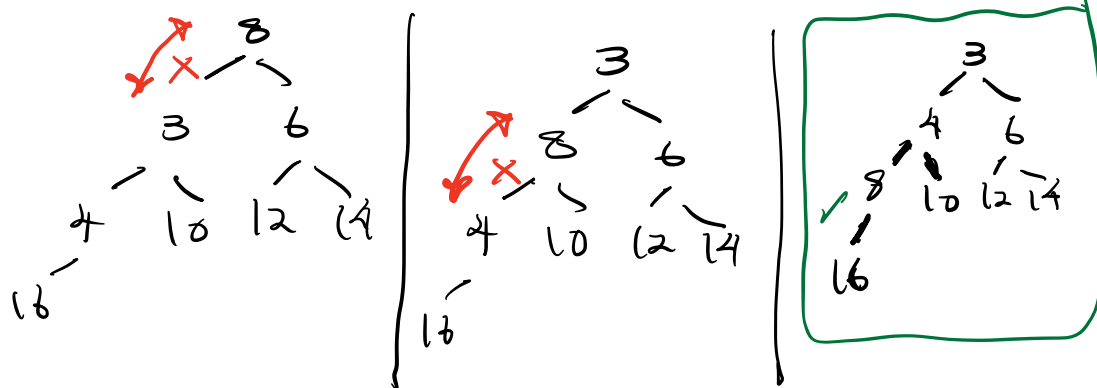
① Insert(3)



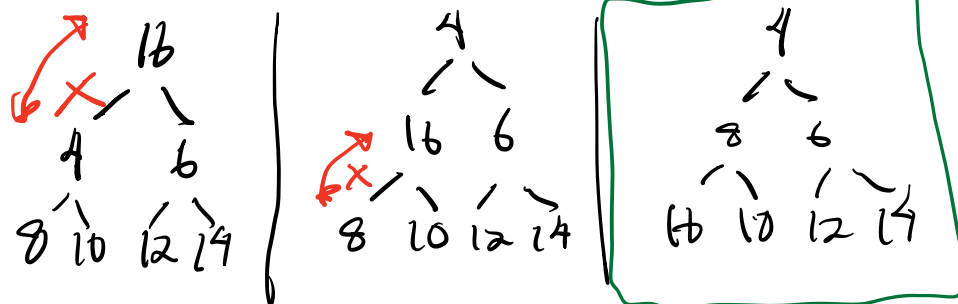


2) Pop() :

Initial [8, 3, 6, 4, 10, 12, 14, 16]



3) Pop() : Initial [16, 4, 6, 8, 10, 12, 14, 7]



Insert(5)

[4, 8, 6, 16, 10, 12, 14, 5]

