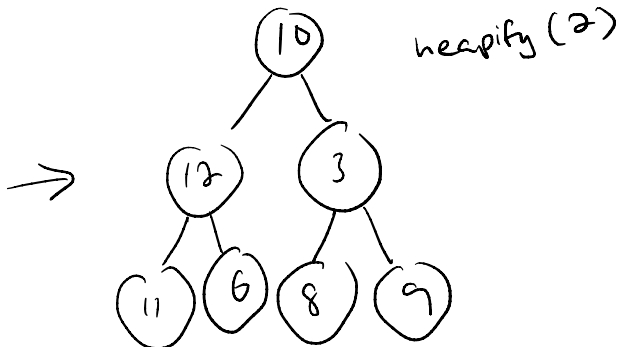
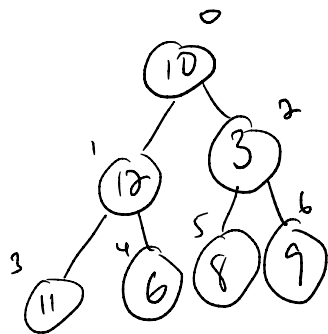
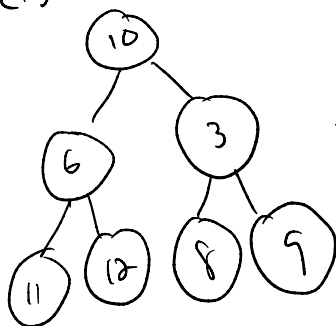


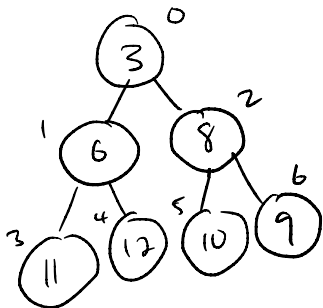
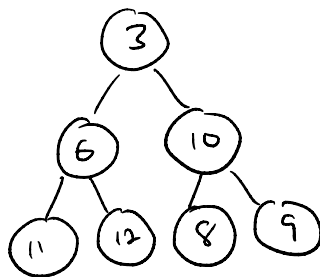
a) [10, 12, 3, 11, 6, 8, 9]



$\text{heapify}(1)$

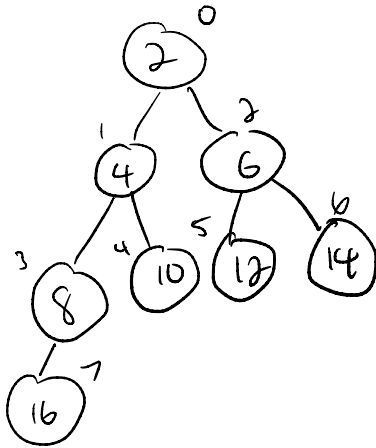


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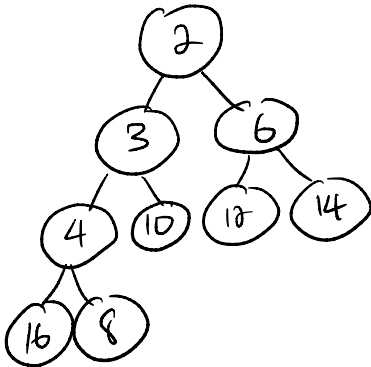
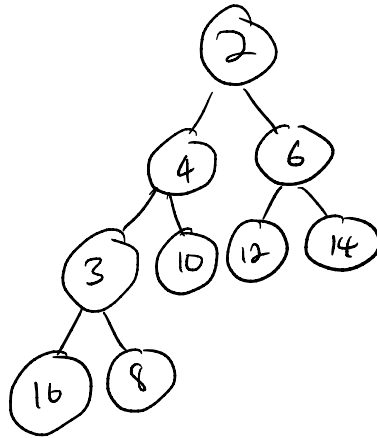
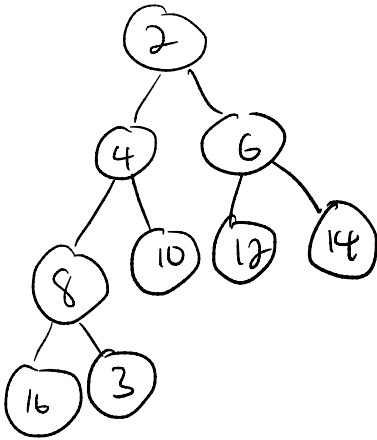


[3, 6, 8, 11, 12, 10, 9]

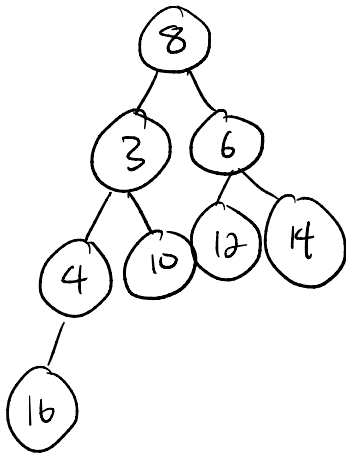
b) [2, 4, 6, 8, 10, 12, 14, 16]



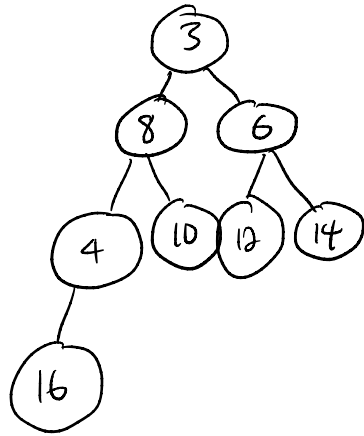
insert (3)



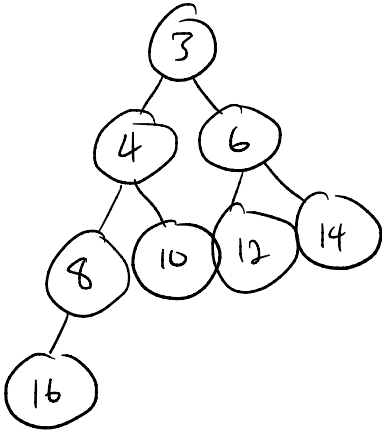
pop (top)



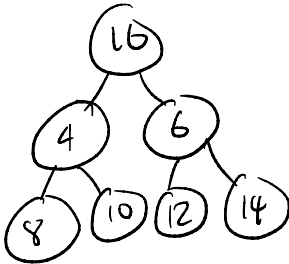
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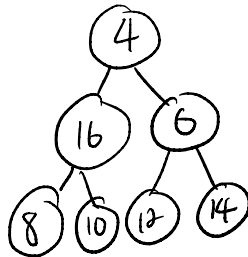
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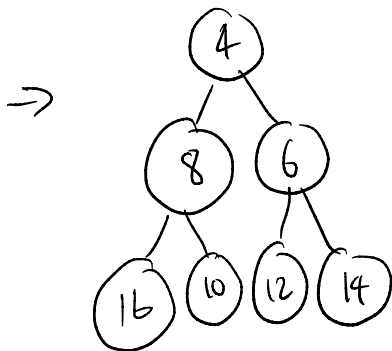


pop (top)



→





insert(5)

