4a)

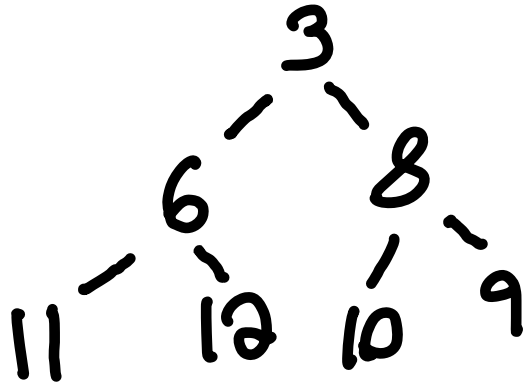
- min-heap (makeHeap)

10	12	3	11	6	8	9

10	12	3	11	6	8	9	Heapify 3

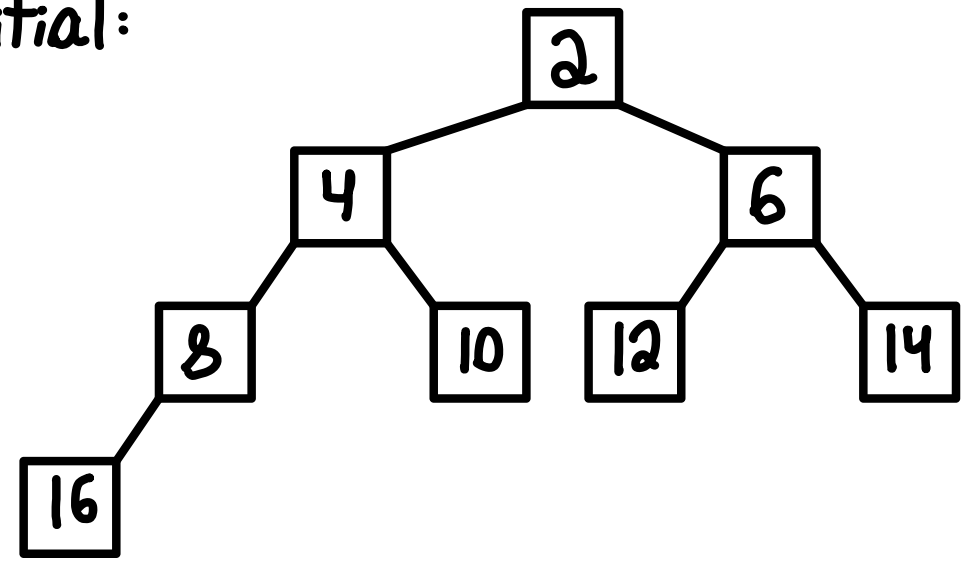
10	6	3	11	12	8	9	Heapify 12 (Swap 12,6)

3	6	8	11	12	10	9	Heapify 10 (Swap 10,3 and 10,8)

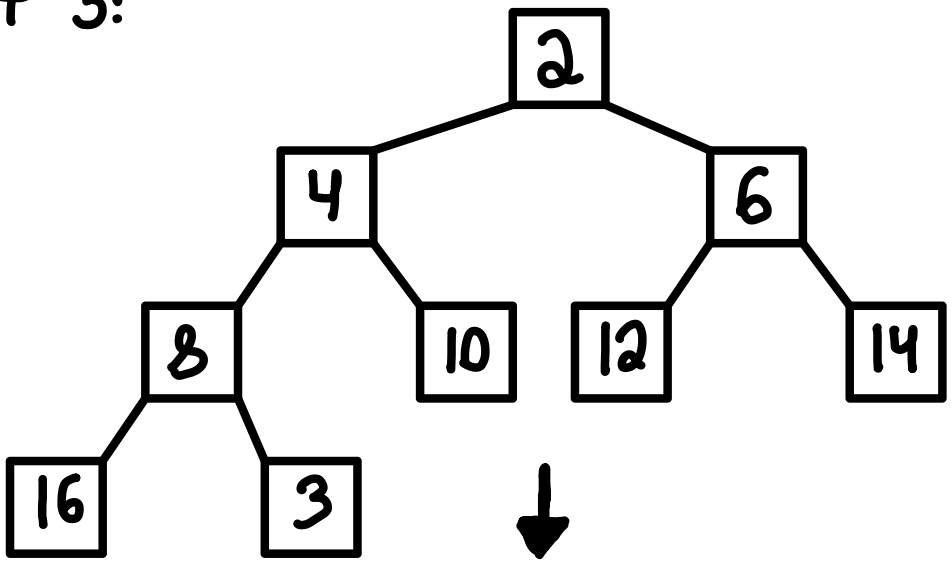


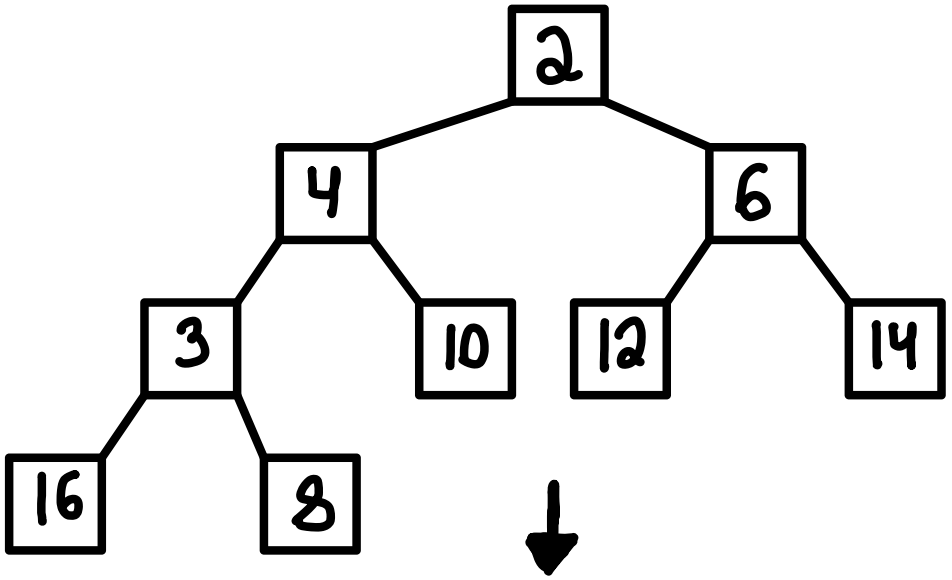
4b)

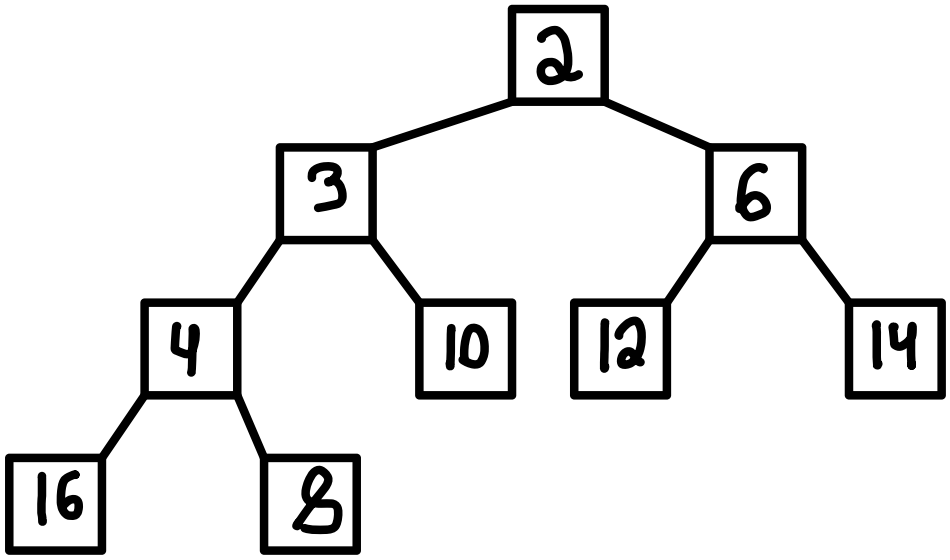
Initial:



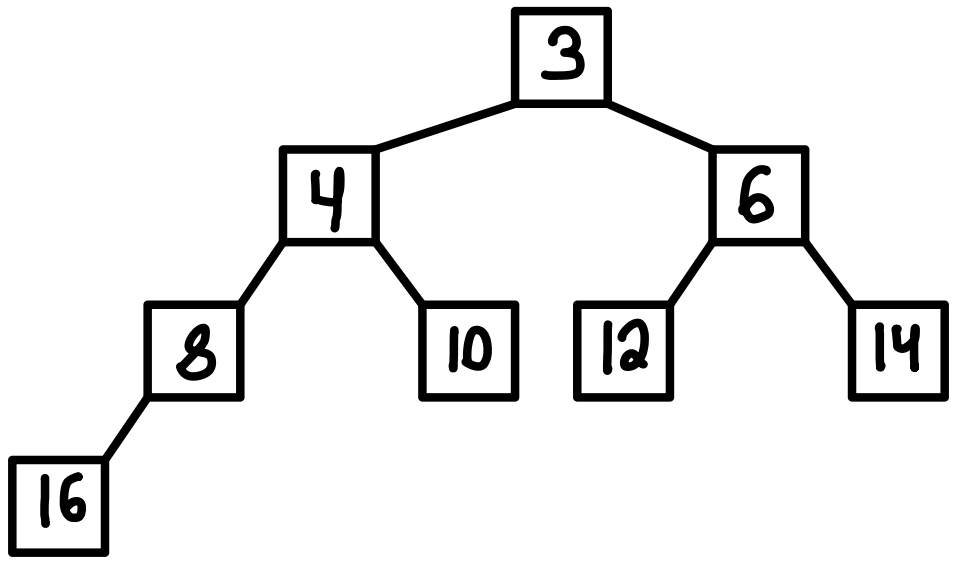
Insert 3:







Pop:



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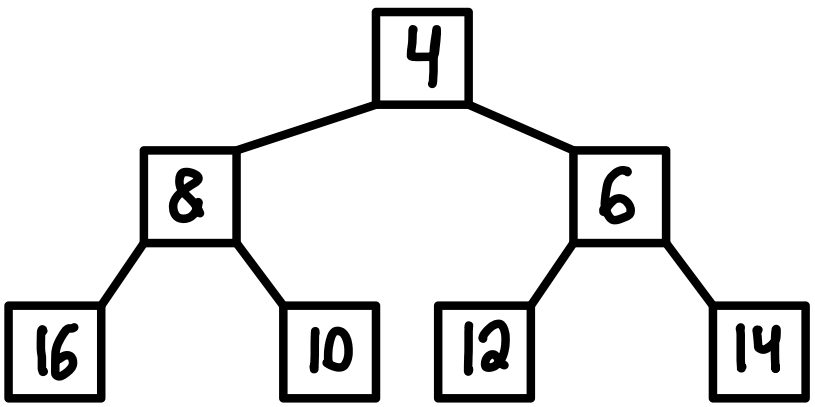
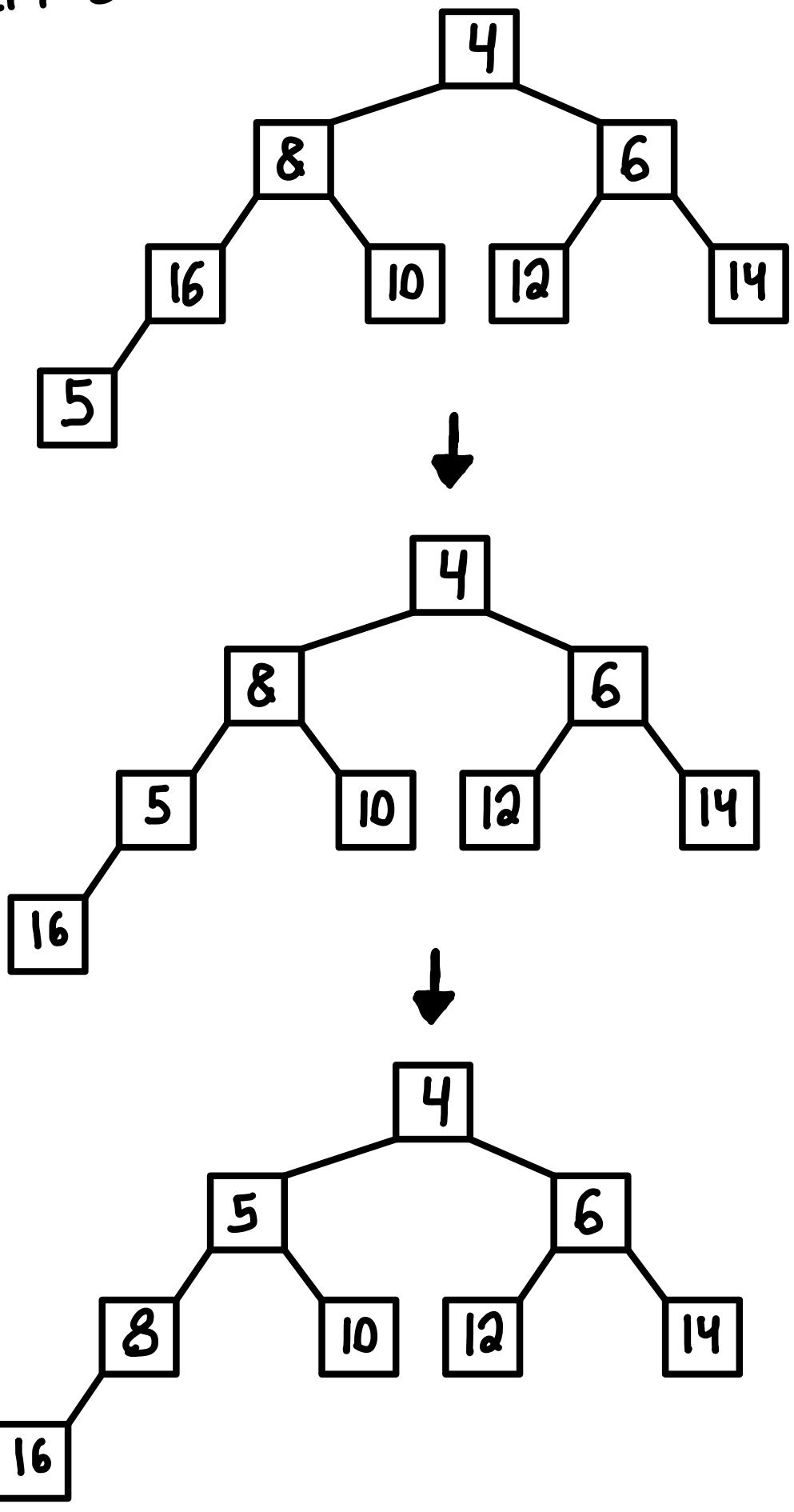
Insert 5: