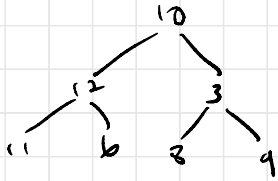
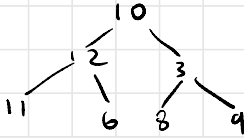


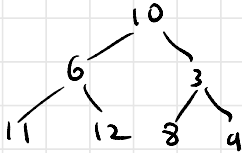
4) a) Initial: (10, 12, 3, 11, 6, 8, 9)



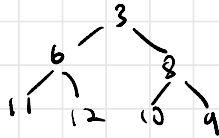
heapify(2) → (10, 12, 3, 11, 6, 8, 9)



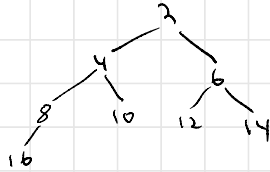
heapify(1) → (10, 6, 3, 11, 12, 8, 9)



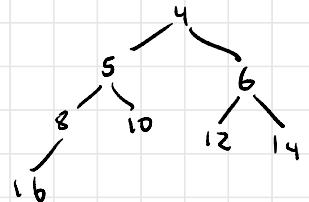
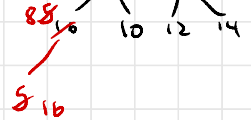
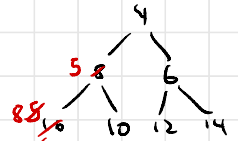
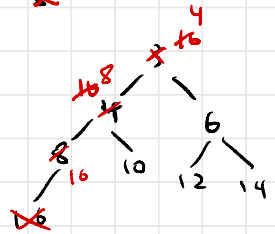
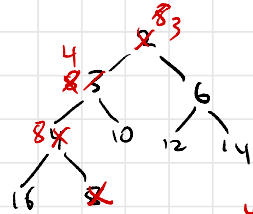
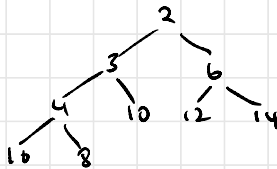
heapify(0) → (3, 6, 8, 11, 12, 10, 9)



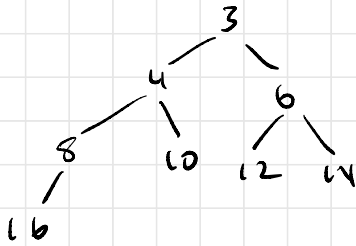
4) b) Initial: (2, 4, 6, 8, 10, 12, 14, 16)



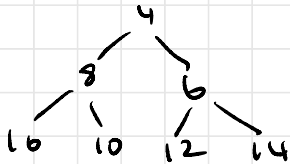
Insert 3: (2, 3, 6, 4, 10, 12, 14, 16, 8)



Pop top: [3, 4, 6, 8, 10, 12, 14, 16]



Pop top: [4, 8, 6, 16, 10, 12, 14]



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

