

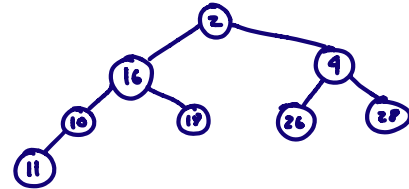
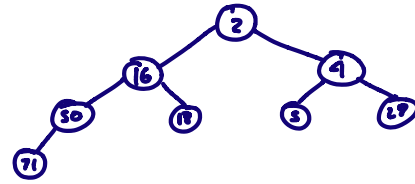
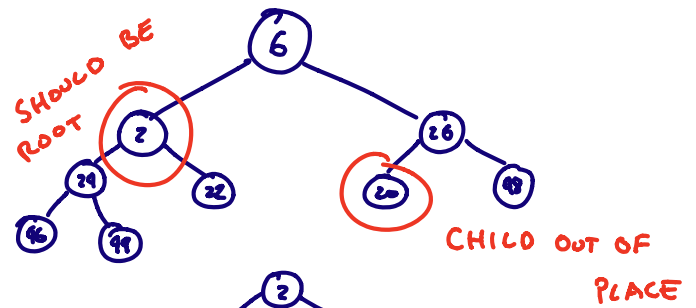
part a) [6, 2, 26, 24, 22, 20, 18, 46, 44]

VALID

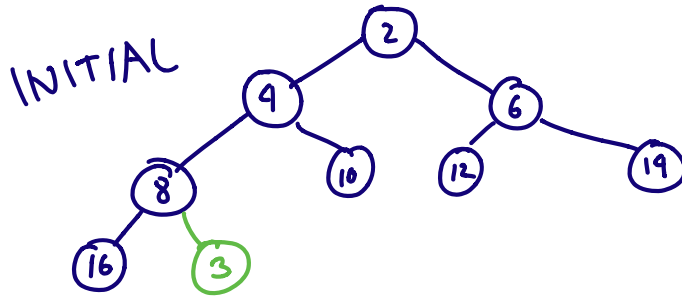
[2, 16, 4, 50, 18, 5, 28, 71]

VALID

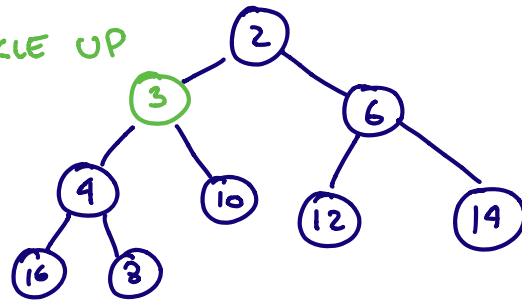
[2, 16, 4, 10, 18, 26, 28, 11]



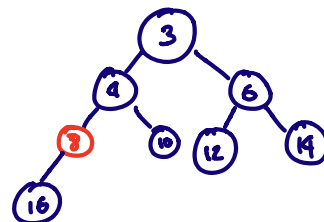
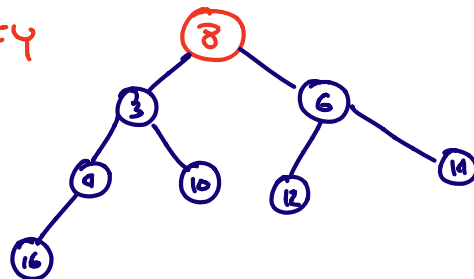
part b)



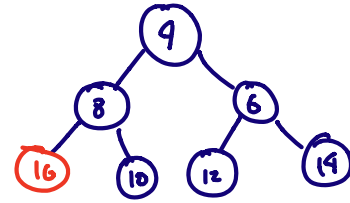
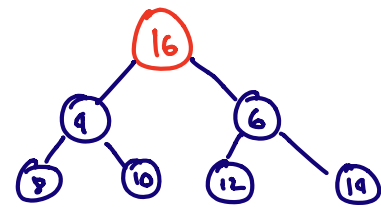
INSERT 3 → TRICKLE UP



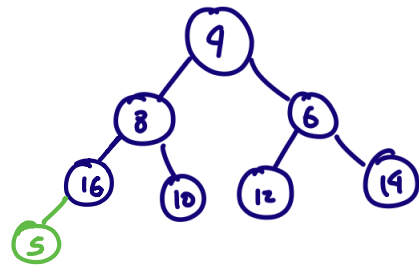
POP 2 → HEAPIFY



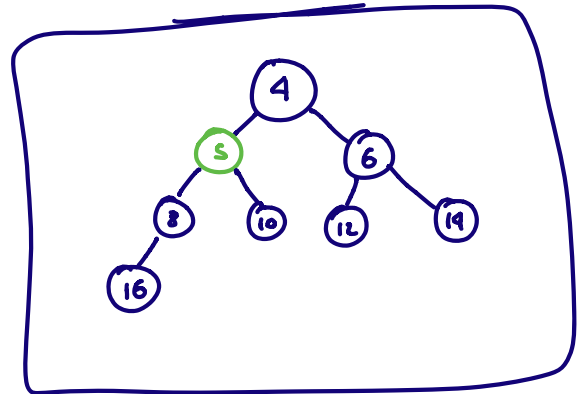
POP 3 \rightarrow HEAPIFY



INSERT 5 \rightarrow TRICKLE UP



FINAL
TREE



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