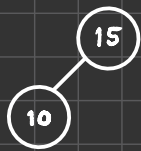


8. (2019)

starting heap in tree form



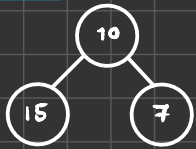
Add 10



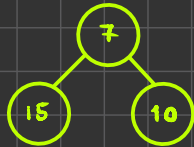
but since $15 > 10$, percolate up 10 to restore heap property



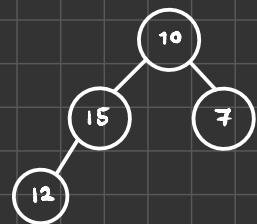
Add 7



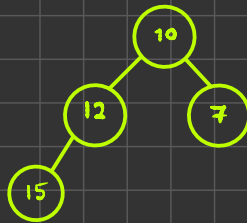
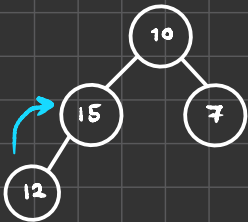
but since $10 > 7$, percolate up 7 to restore heap property



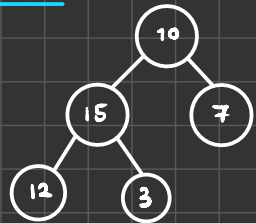
Add 12



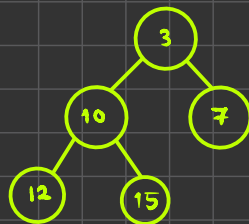
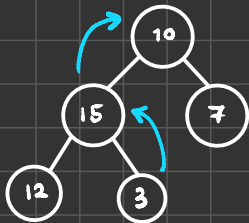
but since $15 > 12$, percolate up 12



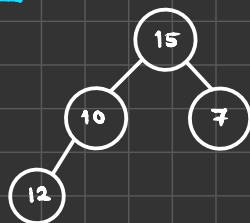
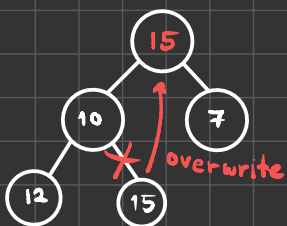
Add 3



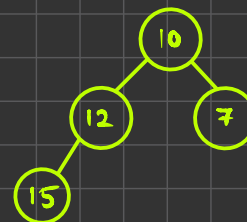
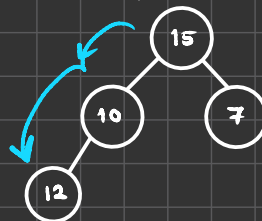
but $15 > 3$ & $10 > 3$



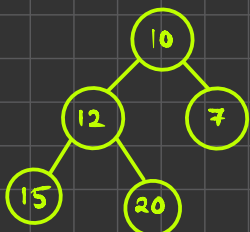
Remove most important value



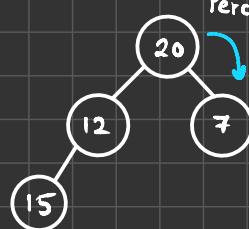
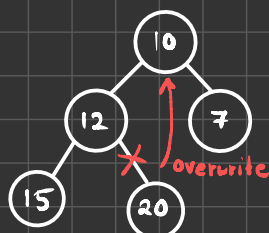
then percolate down 15 to restore heap



Add 20



Remove most important value



Percolate down

