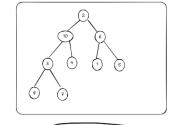
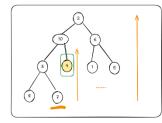
Unsorted





n is no. of elements i ranges from (n/2)-1 to 0





Decrement i for each function call, until O

index in Max Heapify
keeps changing in every
iteration

Max Heapify (n, index):

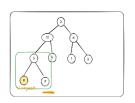
Start from index Assign largest = index Assign left = (2\*index) + 1 -> left child Assign right = (2\*index) + 2 -> right child

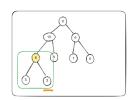
Make sure that the left < n, right < n

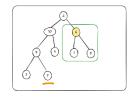
Swap the largest from left/right (if any) and index

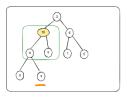
The previous largest is the new index

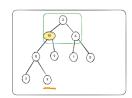
Repeat until largest and index are the same

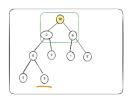


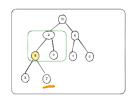


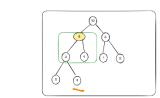


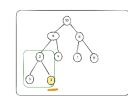


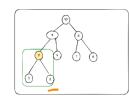




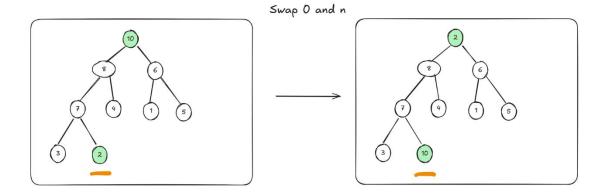




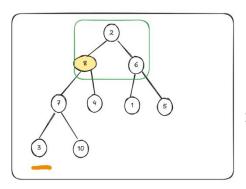








Heapify (n-1, 0)



In each function call, start from 0, go until i < n-1

Decrement i for each function call, until 1

n in Max Heapify keeps changing in every iteration Max Heapify (n, index):

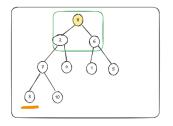
Start from index
Assign largest = index
Assign left = (2\*index) + 1 -> left child
Assign right = (2\*index) + 2 -> right child

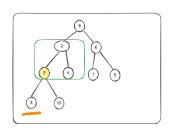
Make sure that the left < n, right < n

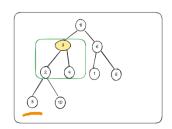
Swap the largest from left/right (if any) and index

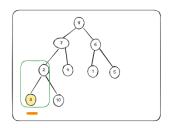
The previous largest is the new index

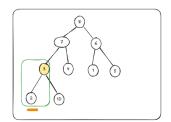
Repeat until largest and index are the same











Swap 0 and n-1

