## HEAP SORT

In this Algorithm we first build the heap using the given elements.

we create a Max Heap to sort the elements in oscending order.

Unce the heap is created we map the most made with the heat when the last made from the heap.

toid heopSort(int arr[], int n)

for (int i = Y2-1; i >0; i --)

heapify (orr, n, i);

for (int i = n-1; i >0; i --)

swap (orr fot, orr fit);

heapify (orr, i, 0);

## O(nlogn)

 $\pmb{build\text{-}max\text{-}heap}:O(n)$ 

heapify: O(logn), called n-1 times