# Heaps 2

Heap Sort
Kth Largest Element
Kth Largest Element in every prefix
K sorted Array
Running Median

## **Heap Sort**

```
Heap Cort is

Sort an array using heap. (increasing).

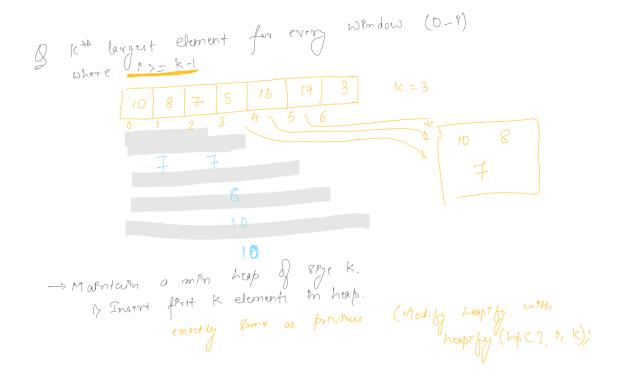
Array \frac{Bold}{M} > M in heap. \rightarrow entract \frac{1}{M} = \frac{1}{
                                                                                           14 13 10 7 6 5 8 5 2 1 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rusp (arr (0), arr [ e2-1] )
delte (on [e2-1])
                                                                                                                                                                                                                                                                                                                                                                                                      in as canditals
                    Prondode
                                                                                                        1) Burld Man heap O(n)
                                                                                                                                       for ( But 195 NI-1; 19 > =0; 19 --

{ swap (arr [0], arr [(2-1]);

i heappy (orr [0]);
```

## Kth Largest Element

#### Kth Largest Element in every prefix



# K sorted Array

#### Running Median

