## Heap sort Z section

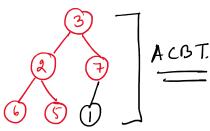
04 February 2025 08:46

Binery Tree - Tree - nodes -> 0/1/2 children.

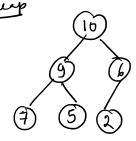
Leaf node – Node with O children. Non-leaf node – Node with 1/2 children.

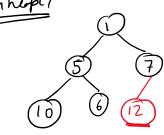
Almost Complete Privary Free -> Nodes are inverted , but level. -> All levels are filled from left direction.

2765.1



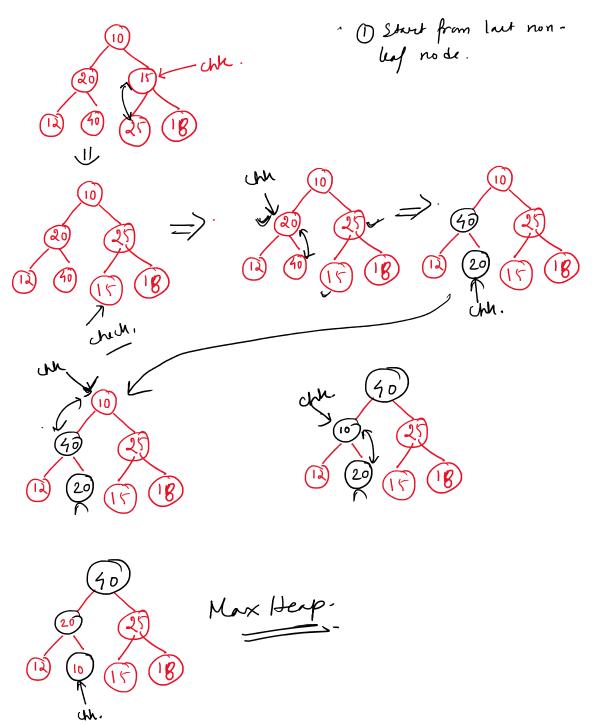
2 Mrs Help (Pounts > Child) Min herp ( Parents ( child).





Hegity - Array - Represent it in ACBT - convert into Max/Min

10 20 15 12 40 25 18. Convert it into Max Herp



Herp Sort
Input away — ACBT — Herpity (Marker / Minher) — Sorted Order.

0 70 1 20 25 12 10 15 18

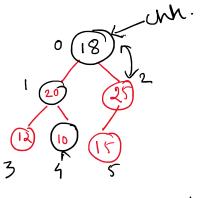
120 15 18

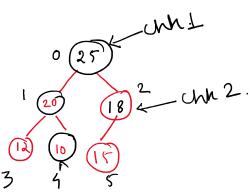
1 20 25 2 3 4 5 6

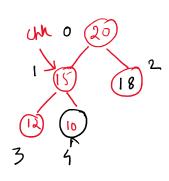
1 Swap (Root when, Last Node Value)

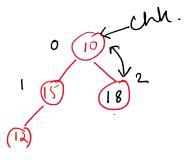
(2) Delete the Let node

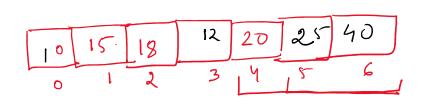
- 2) Delet the Lut node.
  - 3 Heapity (Root).

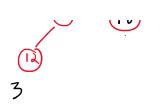


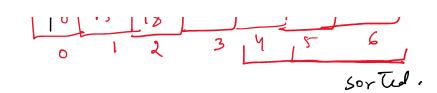


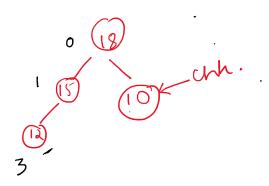


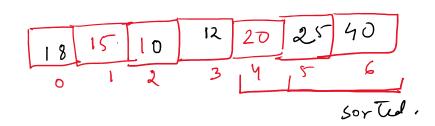


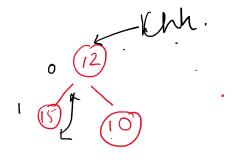


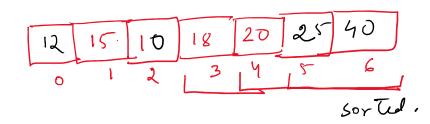


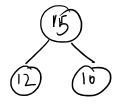


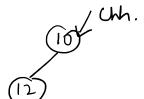












10 LO, 12 15 18 20 25 40.

10 12 15 18 20 25 40. Sorted.