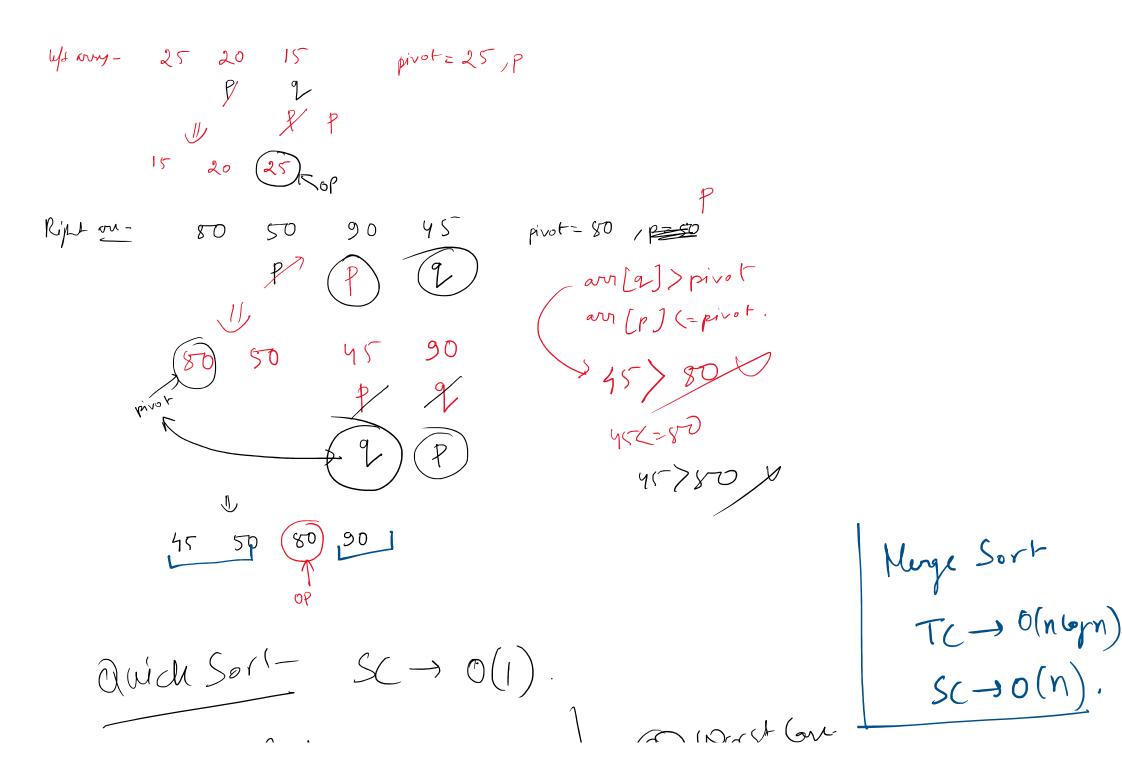


pivot = avr [0] pirot & arr [lut-clement

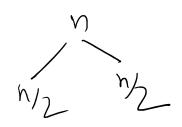
- @ Chk if plg have crossed each other 4 swap (pivot, am [2]);
- 3) Chk if ply have not crossed each other. Swap (vor [P], avr[2])



New Section 1 Page 2

TC- O But Cash

First element ka OP middle mein hen.



$$T(n) = T'(n/2) + T(n/2) + n$$

 $T(n) = 2T(n/2) + n$

T(n) z nbyn.

Heip Sort

Tra-

Dorst Con

Arpha array already 10+ Ted.

 $4 \frac{1}{2} \frac{3}{3} \frac{1}{4} \frac{3}{5}$ $9 \frac{1}{1} \frac{2}{1} \frac{3}{4} \frac{3}{5}$ $9 \frac{1}{1} \frac{3}{1} \frac{3}{4} \frac{3}{5}$

 $T(n) = T(n-1) + n \rightarrow 0$ $O(n^2)$

Binory Free that have

Heap 1 Almost complete binary pres.

No de add huro soh left direction se haro.

2) Max-Herp -> Parent > child.

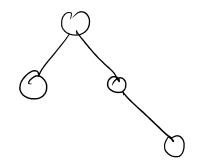
Min Heap -> Purent < child.

Mus heur- (5) par > 4 H Min ho

par Juli H min hop-

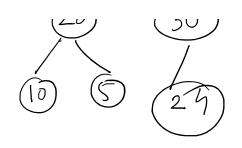
12100y 11 m > 1ree that have Ocr 1 or 2 shildren.

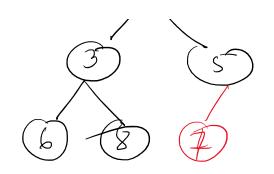
Cafrode - Node jista Ochildren.



000

parent Chid





Heapity- 10 20 15 12 40 25 18.

Represent it in the form of Almost complete binary tree.

