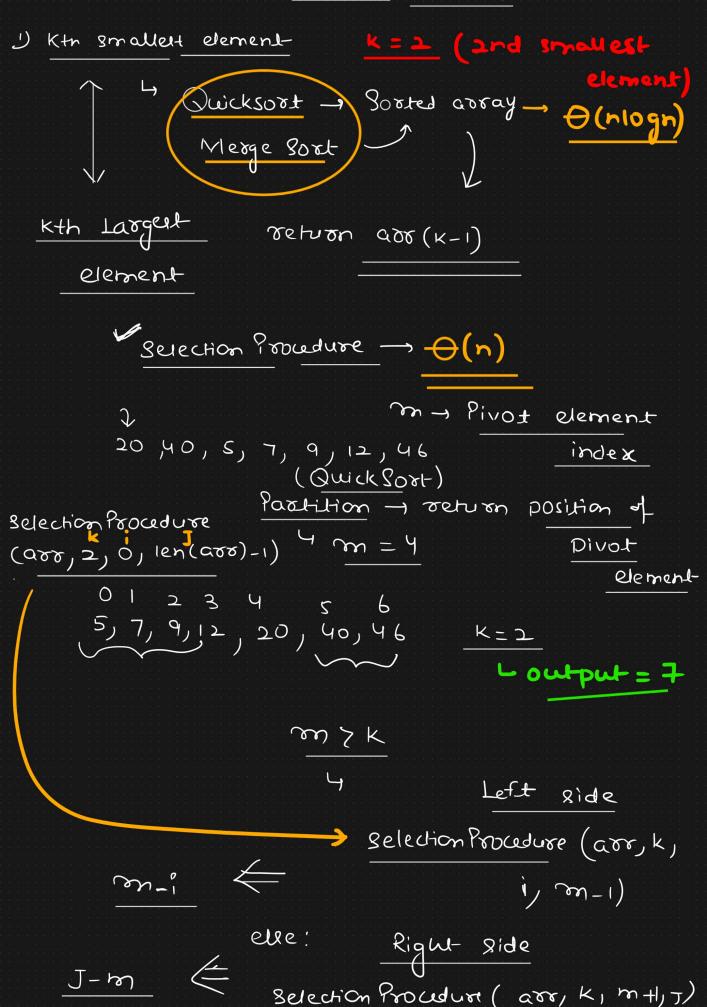
Interview Questions



Recurrence Relation Partition algo
$$T(n) = \begin{cases} T(m-i) + m \rightarrow Left & side \\ OR \end{cases}$$

$$T(J-m) + m$$

$$Right & side$$

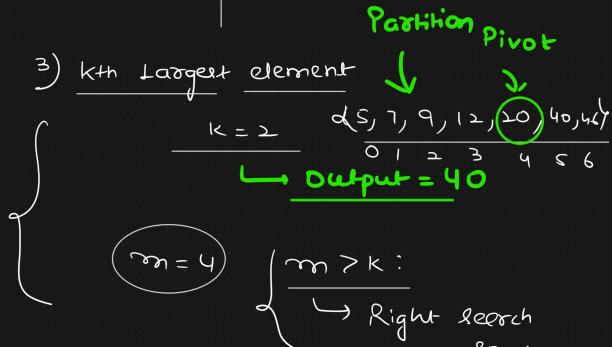
$$= \bigoplus(\mathcal{Y})$$

$$= (\mathcal{Y}) + \mathcal{Y}$$

$$T(y) = I(y-1) + x$$

$$= + (y-1) + x$$

Space



$$P_0 + = 1$$

$$Swap(muns(user, muns(P_1)))$$

$$P_1 - = 1$$

CUXX+=1

 $\omega n \omega (cnee) = = 0$

J Swap (nurs(luos),

nuns(Pol)

$$P^{2} \rightarrow t\omega_{0} (2^{2})$$

$$P^{2} = len(num)$$

$$P^{2} \rightarrow t\omega_{0} (2^{2})$$

$$P^{3} = len(num)$$

BOST COLORS

$$(20,1,2) \rightarrow \text{Sorting algo}$$

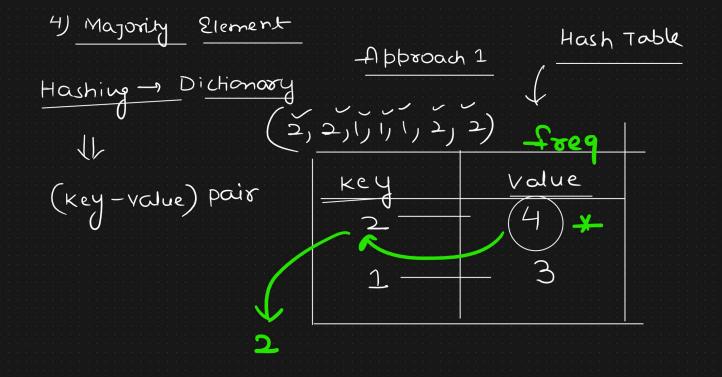
$$(3) \text{ Quicksoxt}$$

$$(3) \text{ (3) logn}$$

$$(3) \text{ Two Pointers approach}$$

$$(4) \text{ (5)}$$

$$(5) \text{ Two Pointers approach}$$



Dictionary -1 of b

solution of the start
$$= 4$$
 solution and $= 4$ solution on the start $= 4$ solution of the start $= 4$ solution o