

Complete Course on Algorithm for GATE - CS & IT



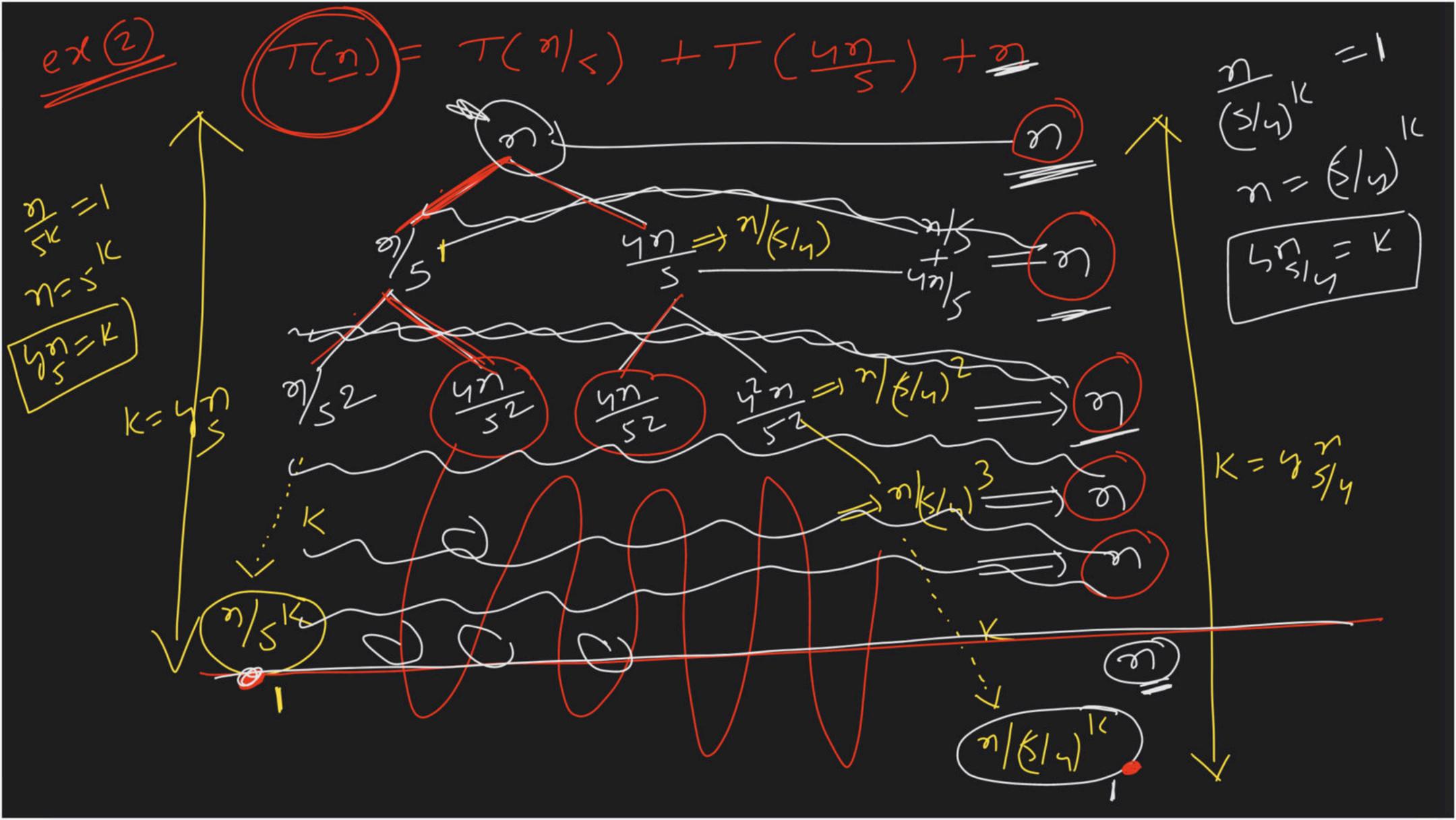
$$T(n) = 2\tau(n/2) + n/20$$

$$= 2\left(2\tau(n/2) + \frac{n}{2} + \frac{n}{2}\right) + r/n$$

$$= 2^{2}\left(2\tau(n/2) + \frac$$

1/50 2/2 T(2/22) + 20.22 n.t(1) + mgn n40(1))+(nfn)=)8(ngn)

method Reconsine Thee  $\rightarrow$   $2T(n_2)+n$ +T(n/2)+n 2 pt 1 fr ch 2 2/2 agra 2/10 7/23 7/23



T(n) = T(n/s) + T(3n/s) + n

$$T(n) \leq n \frac{(y_k)^2 + (y_k)^2 + \dots + (y_k)^2 + \dots + (y_k)^2 \frac{y_k^2}{y_k^2}}{(y_k)^2 + (y_k)^2 + \dots + (y_k)^2 + \dots + (y_k)^2 \frac{y_k^2}{y_k^2}}$$

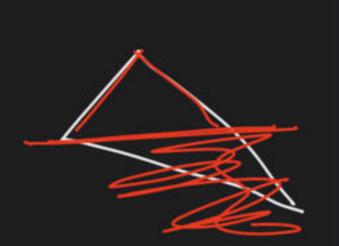
$$T(n) \geq n \frac{(y_k)^2 + (y_k)^2 + \dots + (y_k)^2 \frac{y_k^2}{y_k^2}}{(y_k)^2 + \dots + (y_k)^2 \frac{y_k^2}{y_k^2}}$$

$$T(n) \geq n \left( (4/5) + (4/5) + - + (4/5) + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - + (4/5) + - (4/5) + - (4/5) +$$



$$T(n) = -\Omega(n)$$

$$\int \frac{1}{2} \left( n \right)$$



$$T(n) = T(n|_{S}) + T(3\frac{n}{2}) + \frac{1}{2}$$
 $T(n) = T(n|_{S}) + T(3\frac{n}{2}) + \frac{1}{2}$ 
 $T(n) = T(n|_{S}) + T(n|_{S}) + T(n|_{A}) + \infty$ 
 $T(n) = T(n|_{A}) + T(n|_{S}) + T(n|_{A}) + \infty$ 
 $T(n) = T(n-1) + T(n|_{S}) + T(n-2) + C$ 

