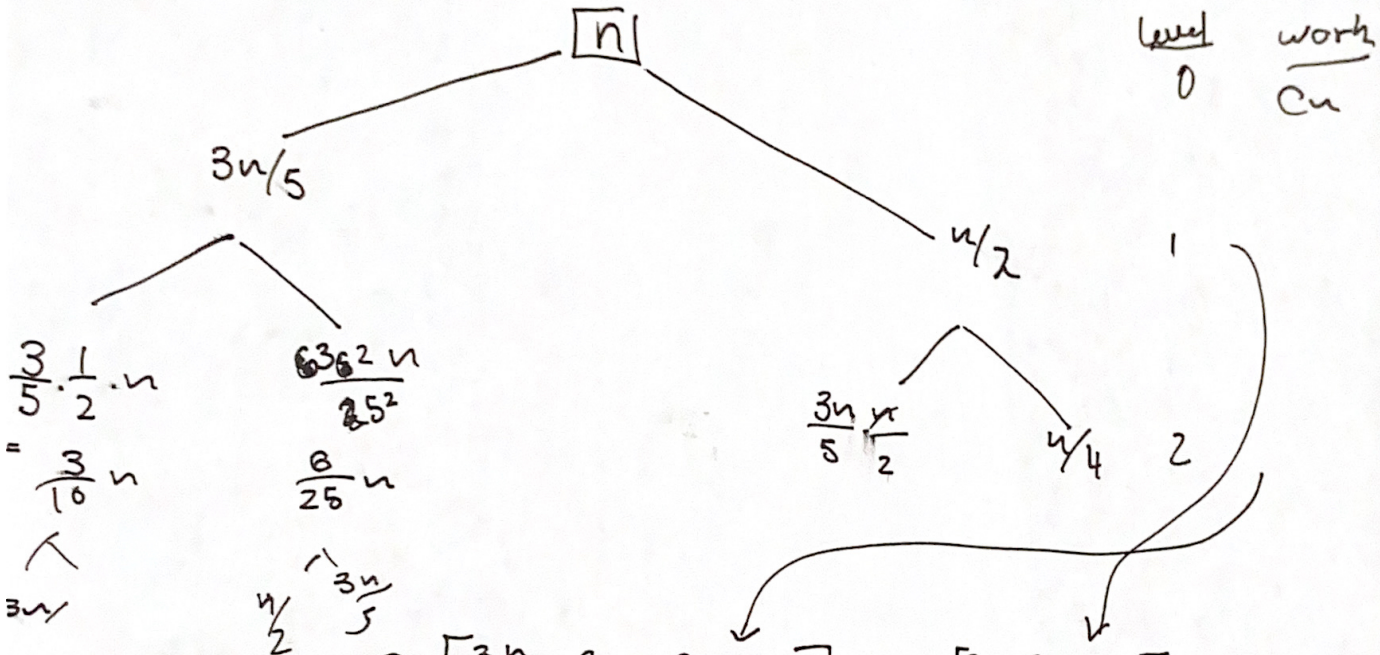
$T(n) = T(\frac{3n}{5}) + T(n/2) + Cn$



$C \cdot \left[\frac{3n}{10} + \frac{6n}{25} + \frac{3n}{10} + \frac{n}{4}\right]$ $C\left[\frac{3n}{5}\right] + C\left[n/2\right] =$

$C \cdot \left[\frac{6n}{10} + \frac{5n}{10}\right] = \frac{11Cn}{10}$

@level "i": $C\left[\left(\frac{3n}{5}\right)^i + \left(\frac{n}{2}\right)^i\right]$

$\rightsquigarrow \left[\frac{11}{10}\right]^i Cn$?

5. $n/2^i = 1 \rightarrow n = 2^i \rightarrow \log_2 n = i$

6. $\sum_{i=0}^{\log_2 n} ($ $n \cdot 11/10^{\log_2 n}$