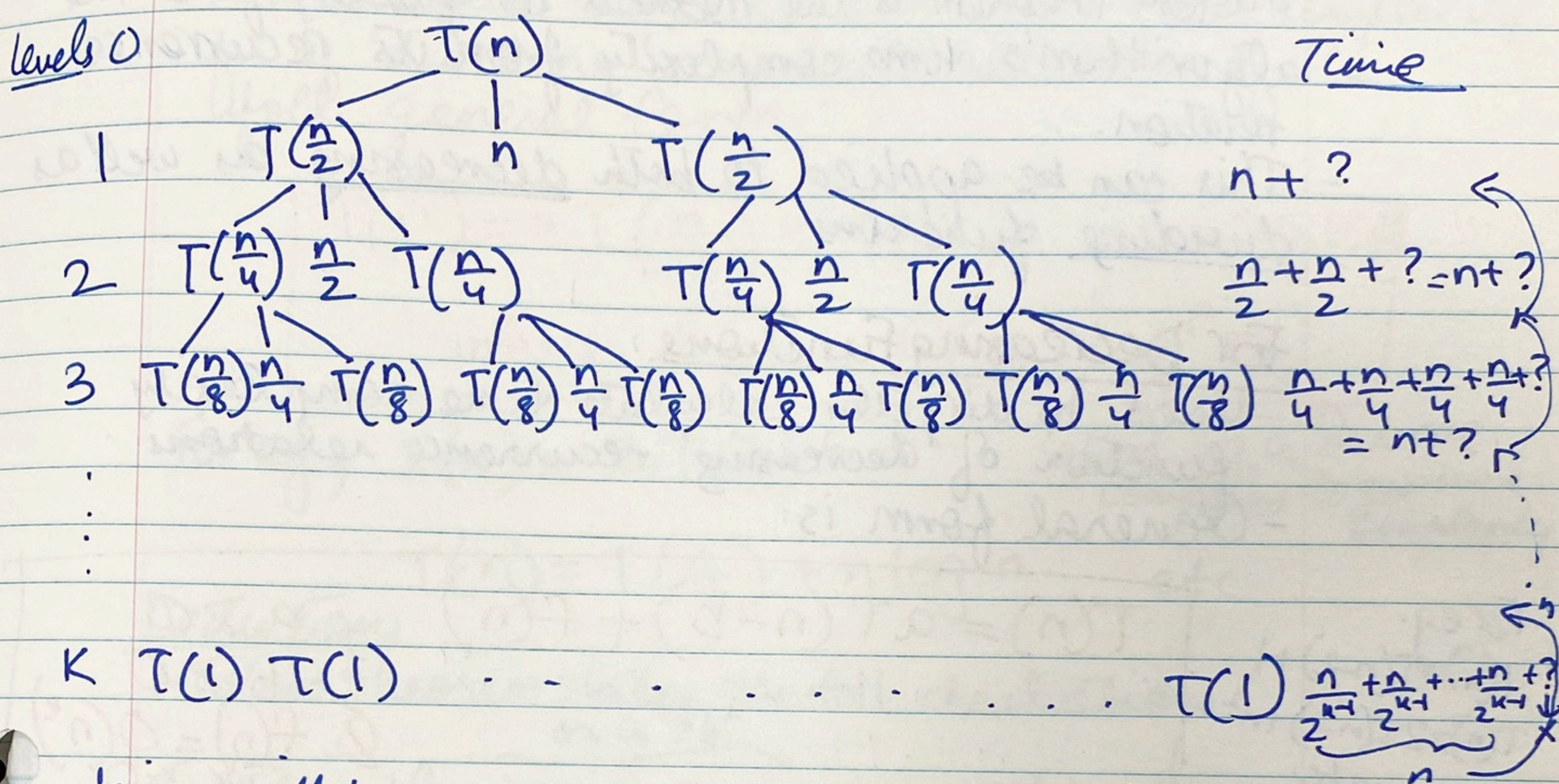


Ex) $T(n) = \begin{cases} 2T(\frac{n}{2}) + n & , n > 1 \\ 1 & , n = 1 \end{cases}$



series will be: $\underbrace{n + n + n + \dots + n}_{k \text{ times}} = kn$

Base cond $\frac{n}{2^k} = 1 \Rightarrow k = \log n$

Sub in series $n \log n$

$\therefore O(n \log n)$