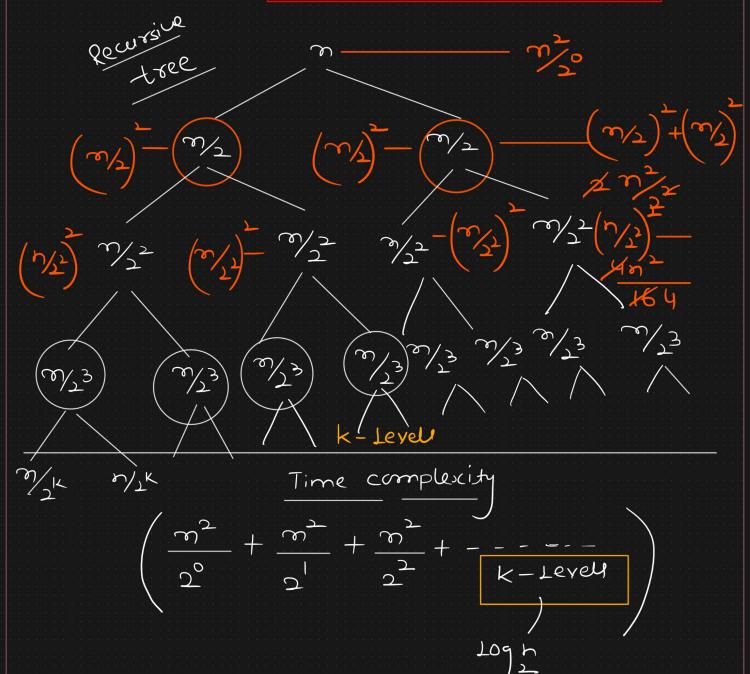
SKILLS

Recursive Tree Method

in any recurrence relation

Example 1
$$T(x) = T(x) + T(x) + m^{2}$$



$$\frac{n}{2^{k}} = 1$$

$$n = 2^{k} \qquad \log_{2} n = k \log_{2} k$$

$$k = \log_{2} n$$

$$\log_{2} n + \log_{2} k$$

$$\mathcal{A} = 0$$

Recursive ferms
$$T(m) = T(m/3) + T(m/4) + Km$$

$$Recursive ferms$$

$$Recursive ferms$$