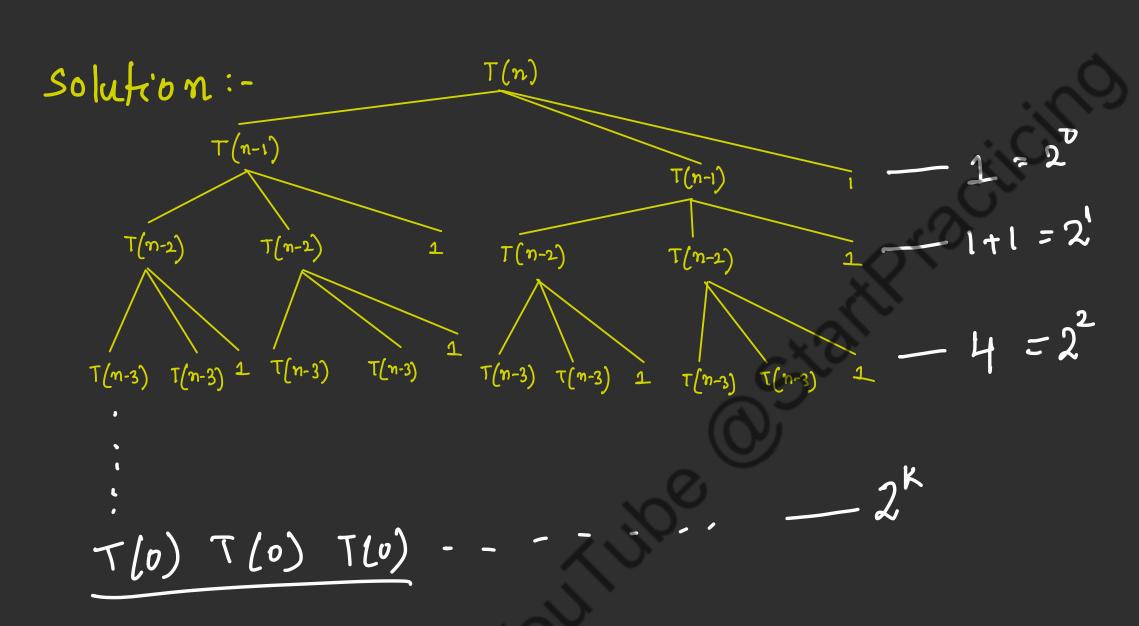
Topics to discuss

Solve
$$T(n) = \begin{cases} 1, n=0 \\ 2T(n-1)+1, n>0 \end{cases}$$

by Recursion Tree Method

Solve
$$T(n) = \begin{cases} 1, n=0 \\ 2T(n-1)+1, n>0 \end{cases}$$

$$T(m)=1, m=0$$
 $T(0)=1$



Assume,

T.C =
$$2^{0} + 2^{1} + 2^{2} + \cdots + 2^{n}$$

= $2^{0} (2^{m+1} - 1)$
= 2^{-1}

$$T \cdot C = 2^{m+1}$$
 $T \cdot C = 0 (2^m)$

$$S_{GP} = \frac{a(8^n-1)}{8-1}$$

Follow Now



Start Practicing



i._am._arfin



Arfin Parween