Assignment fourtherns:  $T(n) = \begin{cases} 1 & m = 1 \\ 2T(n) + n & m > 1 \end{cases}$ Substitution Mothod.  $T(n) = 2T(\frac{n}{2}) + n$   $= 2(2T(\frac{n}{2^2}) + \frac{n}{2}) + n$   $\Rightarrow 2^2T(\frac{n}{2^2}) + 2n$ 





