10. 
$$T(n) = \begin{cases} \alpha e_1 & n \leq 1 \\ T(n-1) + \alpha e_2 & n \leq 1 \end{cases}$$

Supplies and  $T(n-1) + \alpha e_2 & n \leq 1 \end{cases}$ 

$$T(n-1) + \alpha e_2 & n \leq 1$$

$$T(n-1) + \alpha e_2 & n \leq 1$$

$$T(n-2) + \alpha e_2 & n \leq 1$$

$$T(n-2) + \alpha e_2 & n \leq 1$$

$$T(n-3) + \alpha e_2 & n \leq 1$$

$$T(n-3) + \alpha e_2 & n \leq 1$$

$$T(n-1) + \alpha e_2 & \alpha e_3 & \alpha e_4 & \alpha e_4 & \alpha e_5 & \alpha e_5 \\
T(n-1) + \alpha e_2 & \alpha e_4 & \alpha e_5 & \alpha e_5 & \alpha e_5 & \alpha e_5 \\
T(n-1) + \alpha e_2 & \alpha e_5 \\
T(n-1) + \alpha e_2 & \alpha e_5 \\
T(n-1) + \alpha e_2 & \alpha e_5 & \alpha e_5$$

leen proso !

$$T(N-(N-1)) + (N-1) \cdot cre2 =$$

$$= T(1) + (N-1) \cdot cre2 =$$

$$= Crex + N \cdot cre2 - cre2 = T(N)$$

$$O(N-1) \cdot (N-1) \cdot ($$

Escaneado con CamScanner

11) 
$$T(n) = \begin{cases} cte_1, & n \neq 1 \\ 2T(n-1) + cte_2, & n > 1 \end{cases}$$

$$poeo(i)$$
  $2^{i} + (v-i) + (2^{i}-1)$   $aez$ 

reemployo i 
$$2^{n-1} + (n-(n-1)) + (2^{n-1}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot T(1) + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + (\frac{2^n}{2}-1) \cdot \alpha e z = \frac{2^n}{2} \cdot \frac{\alpha e 1}{2} + \frac{2^n}{2} \cdot \frac{\alpha e$$

orally 
$$\frac{2^{N}}{2} + \frac{2^{N}}{2} \cdot \frac{\cot 2}{2} - \cot 2$$

orally  $\frac{2^{N}}{2} + \frac{2^{N}}{2} \cdot \frac{\cot 2}{2} - \cot 2$ 

for  $\frac{2^{N}}{2} \cdot \frac{\cot 2}{2} + \frac{2^{N}}{2} \cdot \frac{\cot 2}{2} + \cot 2$ 

orally  $\frac{2^{N}}{2} \cdot \frac{\cot 2}{2} + \cot 2$ 

for  $\frac{2^{N}}{2} \cdot \frac{$ 

Treewopta to 
$$\frac{n-1}{2}$$
  $T(n-2, (\frac{n-1}{2}))$   $+(\frac{2^{\frac{n-1}{2}}}{2}-1)$  cases ...

$$= \sqrt{2^{n-1}} \cdot T(1) + (\sqrt{2^{n-1}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \text{cases} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} + (\sqrt{\frac{2^{n}}{2}}-1) \cdot \sqrt{\frac{1}{2}} \cdot \text{case} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \sqrt{\frac{1}{2}} \cdot \text{case} = \frac{\sqrt{2^{n}}}{2} \cdot \sqrt{\frac{1}{2}} \cdot \sqrt{\frac{1$$