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

$$\frac{n-1}{2} T(n-2, \frac{n-1}{2}) + \frac{n-1}{2^{\frac{n}{2}}} - 1, \text{ cas } = \frac{1}{2^{n-1}} . T(1) + \frac{1}{2^{\frac{n}{2}}} - 1, \text{ cas } = \frac{1}{2^{n-1}} . T(1) + \frac{1}{2^{\frac{n}{2}}} - 1, \text{ cas } = \frac{1}{2^{n-1}} . T(1) + \frac{1}{2^{\frac{n}{2}}} - 1, \text{ cas } = \frac{1}{2^{n-1}} . \frac{2^{n-1}}{2^{n-1}} . \text{ cas } + \frac{1}{2^{n-1}} . \frac{2^{n-1}}{2^{n-1}} . \text{ cas } = \frac{1}{2^{n-1}} . \frac{1}{2^{n-1}} . \frac{1}{2^{n-1}} . \text{ cas } = \frac{1}{2^{n-1}} . \frac{1}{2^{n-1}} . \frac{1}{2^{n-1}} . \text{ cas } = \frac{1}{2^{n-1}} . \frac{1}{2^{n-1}} . \frac{1}{2^{n-1}} . \text{ cas } = \frac{1}{2^{n-1}} . \frac{1}{$$

coso bose
$$\frac{N}{2^{i}} = \frac{1}{2^{i}}$$

$$\log_{2}(n) = \frac{1}{2^{i}}$$