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Listesc 6

4) $\{ T(n) = 4T(n/2) + cn \}$

$4^0 = 1$							cn
$4^1 = 4$	$n/2$	$n/2$		$n/2$	$n/2$		$4 \cdot cn/2$
$4^2 = 16$	$n/4$	$n/4$	$n/4$	$n/4$	se repete com outras até ele ramos		$16 cn/2$
$4^i = n$		$T(1) \leftarrow$ até chegarem $\rightarrow T(1)$					$i \cdot cn/2$

n

$\log n$
$(c \cdot n/2$
$\rightarrow \lg n +$
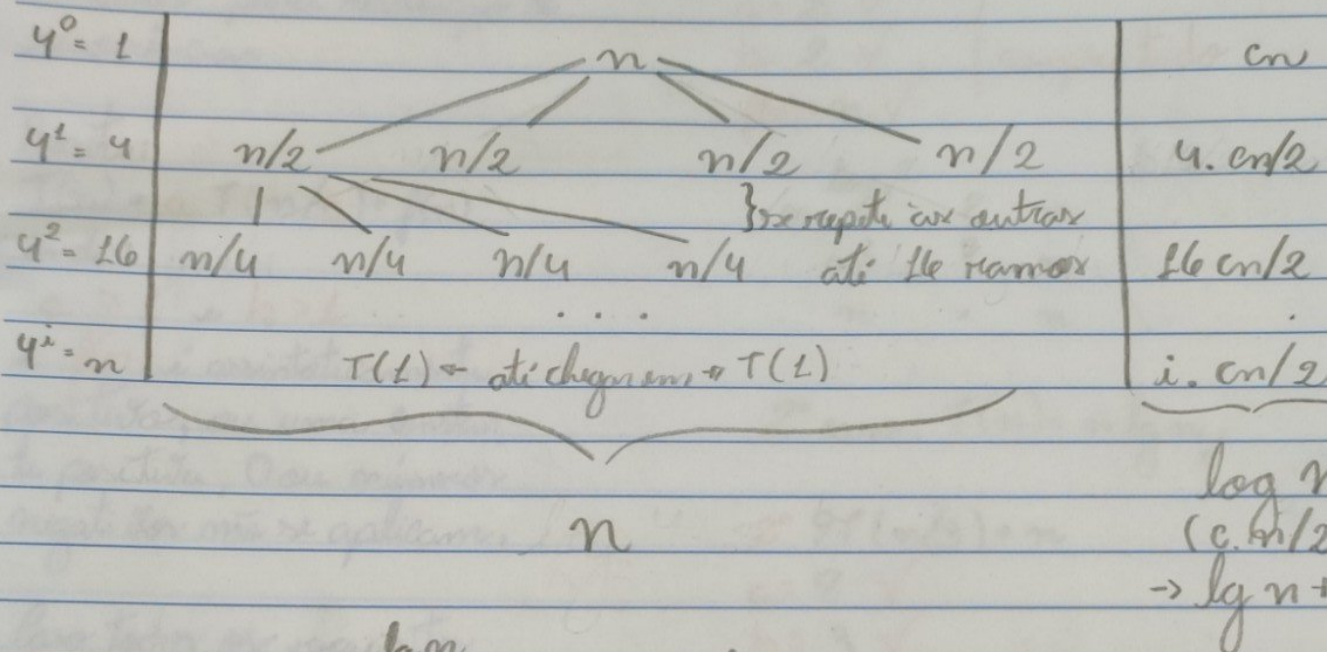
$$T(n) = cn \cdot \sum_{i=0}^{\lg n} 2^i \rightarrow 2^{\lg n + 1} - 1 \rightarrow 2n - 1,$$

$$T(n) = cn \cdot (2n - 1) \rightarrow 2cn^2 - 1$$

$$T(n) = 2cn^2 - cn/\!\!/$$

$$Complexidade = O(n^2)/\!\!/$$