Ejercicio 2

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$$T(n) = \begin{cases} 1 & n \leq 1 \\ 4T\left(\frac{n}{2}\right) + n & n > 1 \end{cases}$$

$$4T\left(\frac{n}{2}\right) + n$$

$\downarrow a$ $\hookrightarrow b$ $\hookrightarrow n^r \Rightarrow k$

$\downarrow h$

$4 \, d \, P \, 2^1$

$\hookrightarrow 4 > 2^1 \Rightarrow (n^{\log_2 4}) \in O(n^2) \hookleftarrow 2 \, d \, P \, h$