

Función algoritmo Scn)

Cont $\leftarrow 2^n$

For $j \leftarrow 1$ to n do

$s \leftarrow \text{cont}$

While $S > 1$ do

$S \leftarrow S/2$

end while

end For

return S

$O(\text{Fcn}) = O(n^2)$

For = n While = $3n$ For = n

tot $3n^2 + 2 //$

while

$S_0 = 2^n$

$S_1 = \frac{S_0}{2} = \frac{2^n}{2^1}$

$S_2 = \frac{S_1}{2} = \frac{2^n}{2^2}$

Despejar

$$\frac{2^n}{2^k} \leq 1 \rightarrow 2^n \leq 2^k = n = k //$$

$$S_k = \frac{S_{k-1}}{2^k} = \frac{2^n}{2^k}$$