$$T(n) = \begin{cases} C & \text{si } n=1 \\ C+T(\frac{n}{8}) & \text{si } n \ge 2 \end{cases}$$

paso ()
$$C + T\left(\frac{n}{8}\right)$$

$$poso(2) C + \left[C + T\left(\frac{6H}{6H}\right)\right] =$$

$$=2C+T\left(\frac{n}{64}\right)$$

aso(i) ic
$$+ + \left(\frac{N}{8}i\right)$$

$$\frac{N}{8^i} = 1$$

$$N = 8$$

$$\log_8(N) = i$$

reempeazo(i)

log
$$\theta(n)$$
:c+ $\perp \left(\frac{\theta \cos \theta(n)}{N}\right) =$

$$T(n) = \sum_{i=1}^{N} \left(\cot_{i} + \sum_{j=1}^{N^{3}} \cot_{2} z \right) = \sum_{i=1}^{N} \left(\cot_{i} + \sum_{j=1}^{N^{3}} \cot_{2} z - \sum_{j=1}^{N} \cot_{2} z \right) = \sum_{i=1}^{N} \left(\cot_{i} + \sum_{j=1}^{N^{3}} \cot_{2} z - \sum_{j=1}^{N} (i-1) \cdot \cot_{2} z \right) = \sum_{i=1}^{N} \cot_{i} + \sum_{j=1}^{N^{3}} \cot_{2} z - \sum_{j=1}^{N} (i-1) \cdot \cot_{2} z = \sum_{i=1}^{N} \cot_{i} + \sum_{j=1}^{N^{3}} \cot_{2} z - \sum_{j=1}^{N} (i-1) \cdot \cot_{2} z = \sum_{j=1}^{N} \cot_{1} + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z + \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=1}^{N^{3}} \cot_{2} z - \cot_{2} z \cdot \left(\sum_{j=1}^{N^{3}} i - N \right) = \sum_{j=$$

Escaneado con CamScanner

$$= n + n^{4} - \frac{1}{2}n^{2} + \frac{1}{2}n =$$

$$= n^{4} - \frac{1}{2}n^{2} + 1n + \frac{1}{2}n =$$

$$= n^{4} - \frac{1}{2}n^{2} + 3n = +(n)$$

$$= n^{4} - \frac{1}{2}n^{2} + 3n = +(n)$$

$$|4| + |n| = \sum_{i=1}^{n+100} \left(\sum_{k=1}^{3n} ck \right) = \sum_{i=1}^{n+100} \left(\sum_{k=1}^{3n} ck \right) = \sum_{i=1}^{3n} sh.ck =$$

5) algorithus A
$$T(n) = lag_2(n)$$

PC 1.000 of y seg
Si $N = 1034$
 $T(1024) = lag_2(1024) = 10$

$$6) + (n) = c + \sum_{i=1}^{\log_2(n)} \sum_{j=1}^{n} \frac{n+1}{k=1}$$

$$= C + \sum_{i=1}^{\infty} \sum_{j=1}^{N+1} N+1$$

$$= c + \sum_{i=1}^{\infty} \frac{1}{N} \cdot (N+1) =$$

$$T(n) = \sum_{i=1}^{log_2(n)} log_2(n) = 1$$

$$= \begin{cases} c & \text{Sink2} \\ c+\tau(n-3) & \text{Sink3} \end{cases}$$

oaso base

$$\frac{N-Z}{3}$$
 $\zeta=i$

cermproso ()
$$\frac{3}{N-2}$$
 C + $\pm \left(N-3\cdot\frac{3}{N-2}\right)$ =

$$=\frac{n-2}{3}C+C=$$

$$=$$
 $\left(\frac{\sqrt{3}}{3} - \frac{2}{3}\right) \cdot c + c =$

$$O(n)$$
 respot