1) 
$$\sum_{i=1}^{N} 1 + \sum_{i=1}^{N} + \sum_{i=1}^{N} =$$

$$= N \cdot I + N \cdot I + N \cdot I = N + N + N$$

$$= \sum_{i=1}^{n} \left( \sum_{j=1}^{n} N_j \right) = \sum_{i=1}^{n} \left( N_2 \right) = N_3$$

$$H = \begin{cases} 1 & \text{si } N = 1 \\ C + 2 + (N-1) & \text{si } N \ge 2 \end{cases}$$

En bondamos dire us 5

$$poco@$$
  $C + 2 [C + 2T(N-2)] =$ 

$$= C + 2C + HT \left(N-2\right) =$$

$$3C + 4 \left[ C + 2T \left( N - 3 \right) \right] =$$

$$= 3C + 4C + 8T \left( N - 3 \right) = 4C + 8T \left( N - 3 \right)$$

$$(2^{i}-1).C+2^{i}.T(n-i)$$

$$\gamma = 1 + i$$

$$|\gamma - 1| = i$$

$$\left( \frac{x^{-1}}{2} - 1 \right) \cdot C + 2^{n-1} \cdot T \left( n - (n-1) \right) =$$

$$= \left( \frac{2^{n}}{2} - 1 \right) \cdot C + \frac{2^{n}}{2} \cdot T \left( n \right) =$$

$$= 2^{n} \cdot \frac{c}{2} - c + 2^{n} \cdot \frac{1}{2} = T \left( n \right)$$

$$\boxed{2 \top \left(n-1-1\right) + C}$$

algorithm A 
$$\rightarrow \tau(n) = n \log z(n)$$

computación 10.000 op x peg

$$5 + \left(\frac{16}{4}\right) + 16 =$$

$$= 5 \left[5 + \left(\frac{4}{4}\right) + 4\right] + 16 =$$

$$= 5 [5.1 + 4] + 16 =$$

$$= 25 + 20 + 16 = 61$$
 RES  $\rightarrow$  H