Agonitmo Menge Soet (A, esq, die)

Temos :

$$T(n) = 2 + \left(\frac{n}{z}\right) + \Theta(n) + \Theta(a)$$

Recordencia:

Atribuindo Valores:

$$T(n) = 2 \left[2 + (n) + n \right] + n$$

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

$$T(\frac{n}{1}) = 2^2, T(\frac{n}{2^2}) + 2n$$

em i ifeta gos

$$T(n) = 2^i \cdot T(n) + in$$

=> Vous porar quando T(n)=1, e

$$T\left(\frac{2}{2^{i}}\right) = 1$$
, se $O' i = logo:$

$$i = lgne n = 2^i$$

$$T(n) = 2^{\lg n} \cdot T(n + n \lg n)$$

$$T(n) = n \cdot \tau(1) + n \log n$$

$$T(n) = n + n \lg n \Rightarrow b + (n) = O(n \lg n)$$

(tilibra)