3) (om blesidad algoritmon:

t(n)= (0 + (n/2) + (1) = (7

-Primere varios a reemplazo, valores de n para vez

I: has algun patron

T(1)=+7

t(2)= Cot(1) + (7= Cot7 + (7

T(4)= (0 f(2) +(n= (0((otn+ (n) + (n

= (02+7+ (0(7.7 (7

+(8) = (0+(4)+(1 = (0(62+1+6)(1+(1)+(1

- (03 tatlo (1 + (0 (1 + (1

- Dandonos (venta que 20=7; 27=2; 2=4; 23=8 Deducimos que:

 $t(2^n) = (0^{n-7} t_{7} + (0^{n-7} + (n-3) t_{7} + (1 + \dots + t_{7}))$

-); (0=7 (*) nos queda.

t(2")= ty + n (7

- Haciendo el cambio de variable:

 $2^{n} = N = 3 \quad n = Log_{2}N$

- Dara
$$(o-1)$$
 (*) how $q \sim eda$:

 $t(2^n) = 2^{n-7}t_{7} + 2^{n-7}(_{7} + 2^{n-2}(_{7} + ... + 2^{o}(_{7} + ... + 2^{o}(_{7} + ... + 2^{o}))$

-tenemos que
$$t(2^n) = 2^{n-7} t_7 + (7 \left(\frac{7-2^{n-7}}{7-2}\right)$$

$$t(2^n) = 2^{n-1}t_1 + (12^{n-1} - (12^{n-1}))$$

$$t(1) = 1 \quad ((1 + (1) - (1)) - (1)$$