Acturdad 1.1

if Jubonala (int 1) 5 if (n==0) and 1 hefunno; rete else of (n==1) (orde return li neta else return de Monach (n-1) + de bonnach (n-2) T(n) = (1 + 1) = 1 + 1 = 2tT(n) = (1 + 1) = 1 + 1 = 2t (1 + 1) = 1 + 1 = 3t (1 + 1) = 1 + 1 = 3t (1 + 1) = 1 + 1 = 3tT(n) = 3 + + T(n-1), + , t(n-2), = 3 t + [3t + T(n-2) + T(n-3)] + (3t + T(n-3) + T(n-4)] $= 9 \pm 4 + (n-2) + 2 + (n-3) + (n-4)$ = 9 f + (3 t + T(n-4) + 2) + 2 [3 t + T(n-4) + T(n-5)] + (3 t + T(n-5) + T(n-6)) = 24 ibt T(n-3) + 3T(n-4) + 3T(n-5) + T(n-6) No hay putnin T(n-1) > T(n-2) -> 3.67 T(n-1) + T(n-1) > 3.6+ T(n-1)+T(n-2) Kentre WO TCa) = 3 t + T (n-1) + T (n-1) = 3 t + 2 T (n-1) = 3 t + 2 [3 t + 2 T(NU]] = (1+2) 3 t + 2 T(n-2) $=(1-2)36+2^{2}(3t+27(n-3))=(1+2+3)3t+2^{3}7(n-3)$ 2(1+2+3)3t+23(3++27(n-4))

20(2^{nt}) - Constitutes O(t(n)) 20(M = 24 ont forbonaclus (mt n) { 3 mt fib (mtn, mt de) Nf (n=20) of condi returno heti else of (1==1) of conde 1120 asry neturn 1; het Felsed mt nz o Asvyz neturn nem net T(ww) + T(reh) = t + t= 25 T(n) of n=212 T(andi) + T(asy) + T(asy) + T(retz)=4t n=1. T(andi) + T(conde) + T(asy) + Ta-11 + T(retz) = 4. t + T(n-1)

6 Aparsun T(n) = 4 t + T(n1) =4t+(4t+T(n-21)=2(4t)+T(n-2) 24ttC4tf(n-3)]=(3)(46)+T(n-3) = 3(4t) + (4t + T(n-4)) = (4) 4t + t(n-4) K-ESME Expension T(n) = (K) 4 t t (n-k) T(0)=2t -) n-K=0-) n=K -> Tenzn4t+ Tlo)= 4nt+ Tlo)= Unt+ Lit -> [(n) = Un + 2 () (Tay) = 0 (4n2) = n //