

Veglify using substitution method. GUESS: T(n) & cnlog n 0 > no BASIS: n=1 17(1)=1 < collog n . = D not true n=3/T(3)=3T(1)+3=6 < C.3 =D for c >.2 IN OUCTIVE: T(3) & c. 3 log 3 for- 3. STEP +(n) = 3+ (2) +n <3 (c3log3) + n (by inductive step) = chlog3+n = Chlogin - chlog 3 +n = chlog n - cn +n :. The & enloge for chi T(n) & cologin has proved to o for ch2 be frue hence T(n) = O(nlog n)

not by (the map) is the p