RECURRENCE RELATION PRACTICE

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Tn = T(n-1) + n $T(n-1)^2 = T(n-2) + n-1$ (1) T(n-a) = T(n-3) + n-2

 $T_{N} = T(N-Q) + N-1 + N$ F(N) = F(N-3) + N-Q + N-1 + N

T(n) z T (n-k)+ kn - k(k-1)/2 - 0

for have care !-

m-k =1

K = M - 1

Subst un(1) T(1) =1

T(n) = T(1)+(n-1)21 - (n-1)(n-2)/2

:. ordu => 22 [0(n2)]

T(n) = T(n/2) + 1 T(n) = T(n/2) + 12

assuming $m = a^k$, ie $k \ge \log m$ $T(2k) \ge T\left(\frac{a^k}{a}\right) + 1$

T(21) = T(21-1)+1

(T(24-2)+1)+1

