1.4 a) T(n) = { T(n-a) + 2, n = a > 0 T(n) = T(n-a) + 1 = T(n-2a) + 2 = T(n-na) + n = n + 1 = ceil(na) + 1B) T(n) = 27(n-1) + 2" N=0 T(n) = T(n-1) + 2 = T(n-2) + 2 = T(n-2) + 7(n-n) + 2 + 2 + 2 + 2 = = 1 + (2 + 2) = 2 + 2 - 1 c) $T(n) = \sqrt{\frac{1}{2}} \left(\left[\frac{n}{2} \right] \right) + \sqrt{\frac{n}{2}}$ T(n) = 2T([=])+1 = 2(2T([+])+1)+1=4T([-])+2+1= $= 4(27([\frac{n}{8}]) + 2) + 2 + 2 = 87([\frac{n}{3}]) + 4 + 2 + 2 = [\frac{n}{2} + 2] + 2 =$ $Q) + (n) = \left\{ a + \left(\sum_{n=1}^{\infty} (\sum_{n=1}^{\infty} a) + n, n > a, a > a \right) \right\}$ n=a -> m= logan = 2 (a T (a - 3) + a - 2) + a + a = a T (a - 3) + a + a = a T (a - m) + m a = n + loganon = n + nlogan