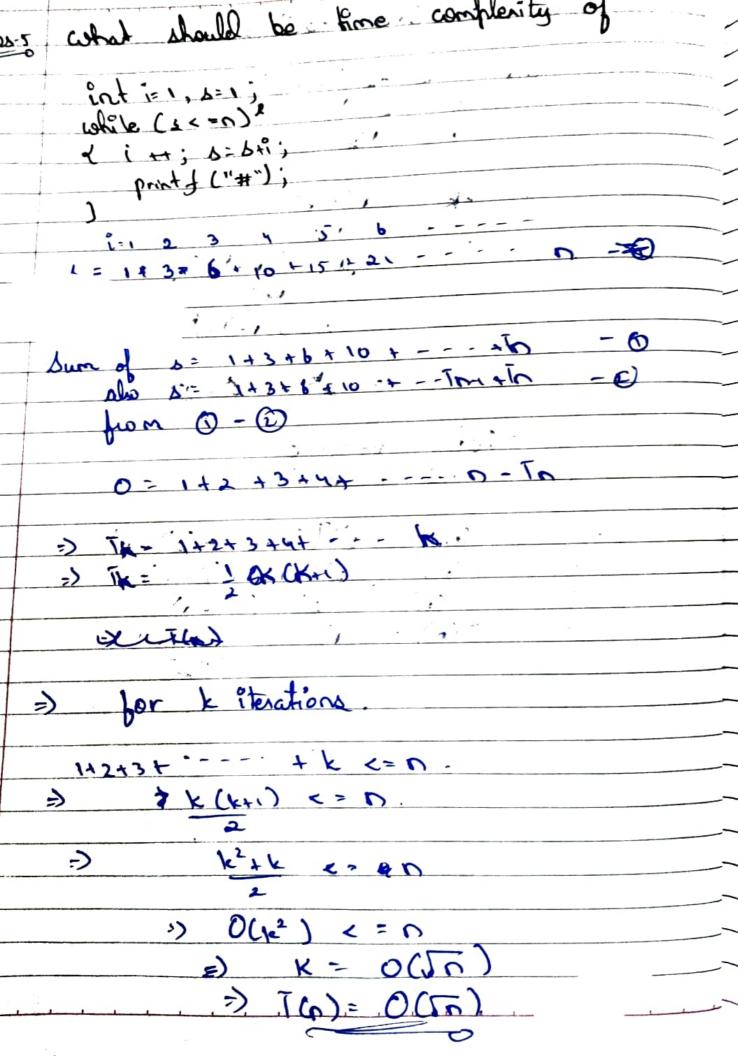


forcisiton) <1- i+2) forlies 6 n) /1 1= 1.2,4,8,000 (i=1=2) 11, 0(1) CAP KA value = Th = Cark-, => log 2n = klog2 =) log_ + logo = k log2 -) logon= ks > O(x) = OCIHOGA). = O(loga) TG) = (3) (0-1) if n>0, otherwise, } T(0)= 37(0-1) - (1) T(n-v) = 3(7(n-2)..- (5) d i(a)= & (3i(a-2)) 1 - - - 3 (0-2) - (3)

putting no now in 1 T (m) = 3(TG-3) - (5) 1 (16-07) FC ... (m) E => T(n) = 3" (T(n-k) putting n-k=0 5) n= k. s) t(n)= 3"[T(6-2)] (a) T (a) = 1 (a) T == (a) = 13"x1 [7(0)=1] 5) 7(0) -0(5) 4) I(n)= 227(n-1)-11/0>0, otherwise 13 T(n) = 27(n-1)-1 - 0Let n = n - 1 $\Rightarrow T(n-1) = 2T(n-2) - 1 - 3$ trom (1) d(2). =) . [(n) = 2[2](n-2)-21] - 1 5 - 1-c-2-1-3 let n= n-2 => T (n-2) = 27(n-3)-1 - 0. from 3 d 3 =) ·I(a) = 14[27(a-3)-1] -2-1 =) I(n)= 87(n-3)-4-2-1



Just Time complexity of -void for (int n) forcisisinicon; 11 067 , i = (a) = : 0 (a) Pine complexity of: void facinta) Liatisis, k, countro; for li=nla; le=n; ti) for(k=1; k <=0; k=16,2)

