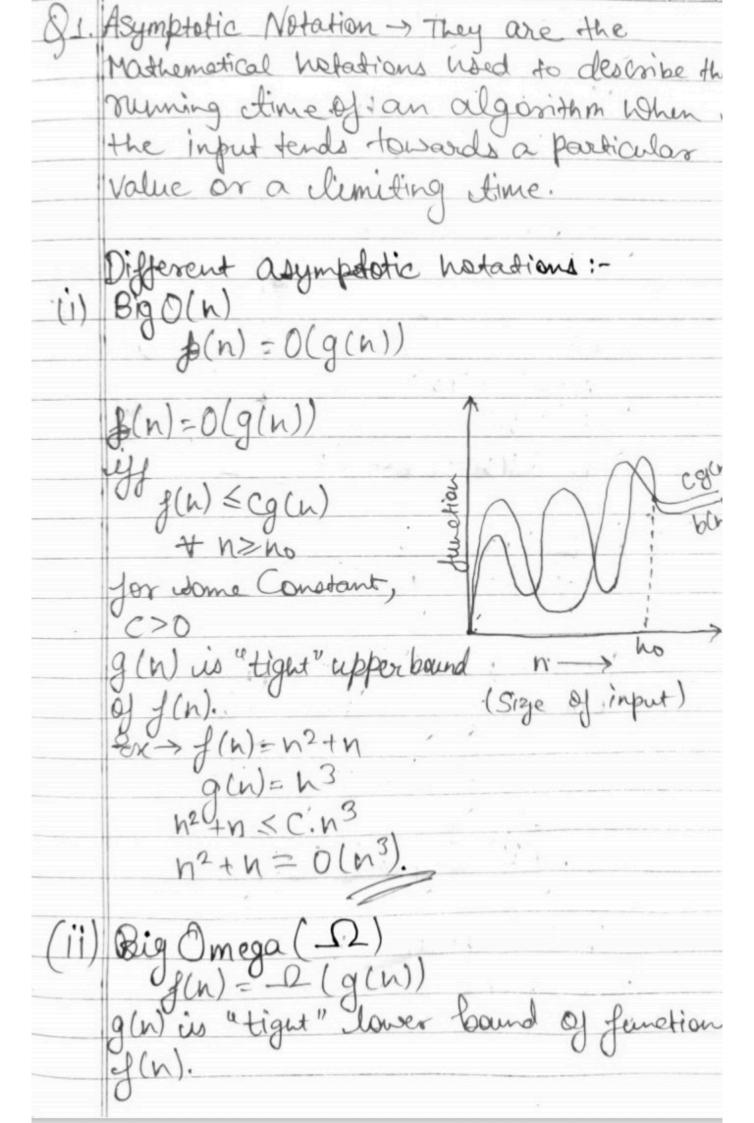
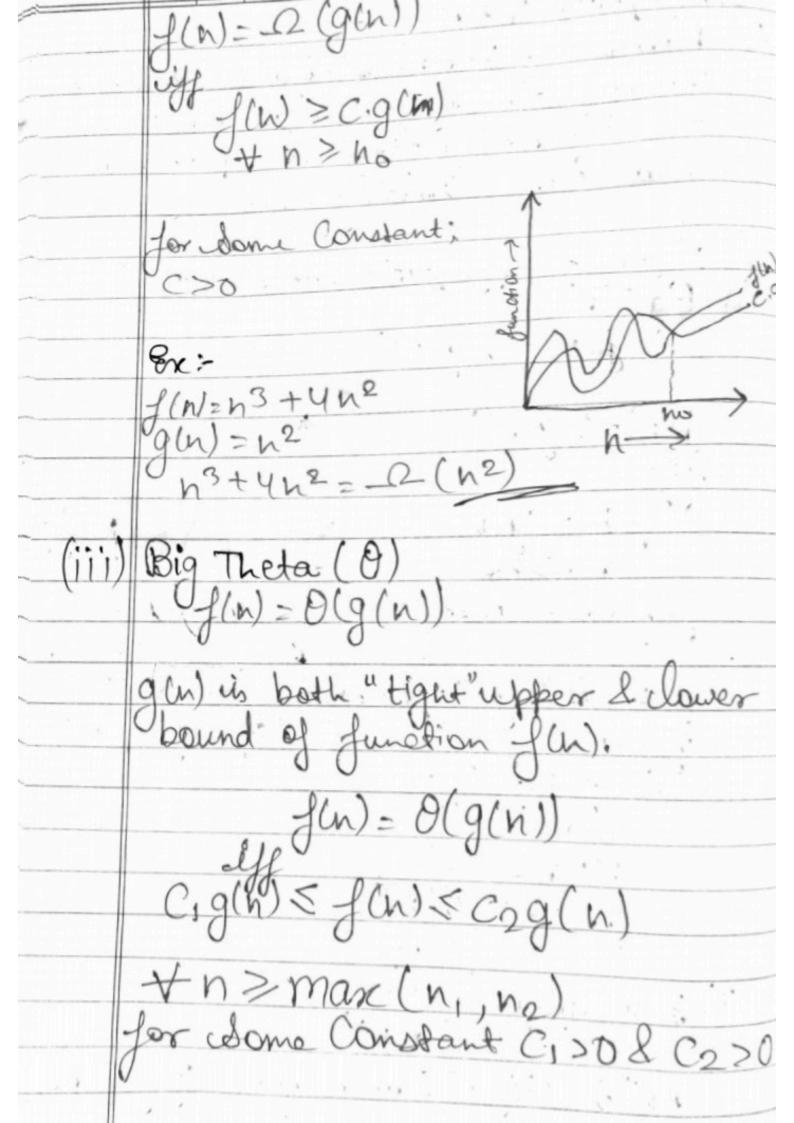
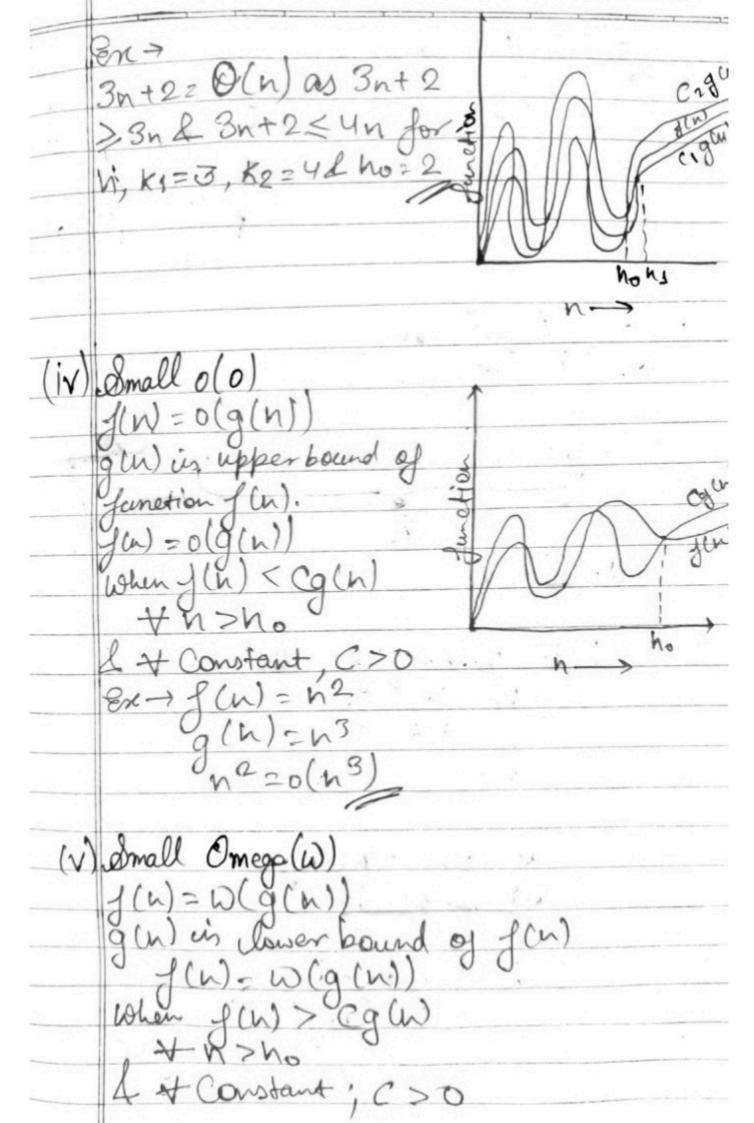
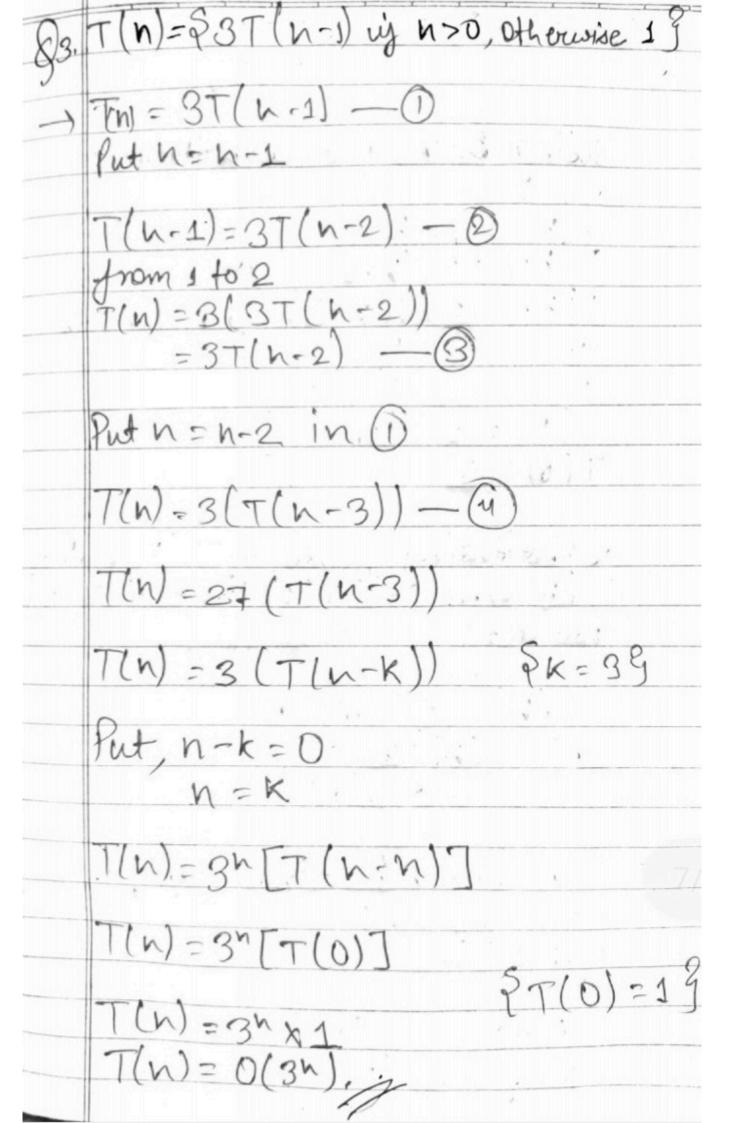
Name: Abhinar Narain Dection: CST SPL-2 Semester: 4 Class R-No: 41 University R-No: 2017445 Date: 10th March 2022

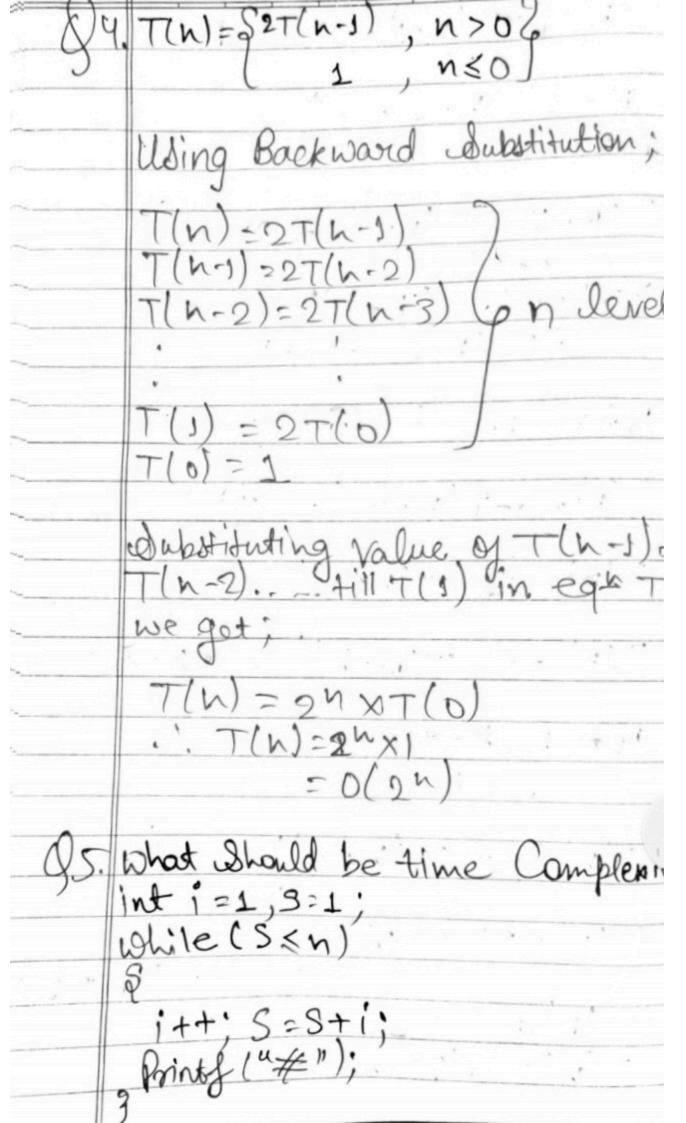


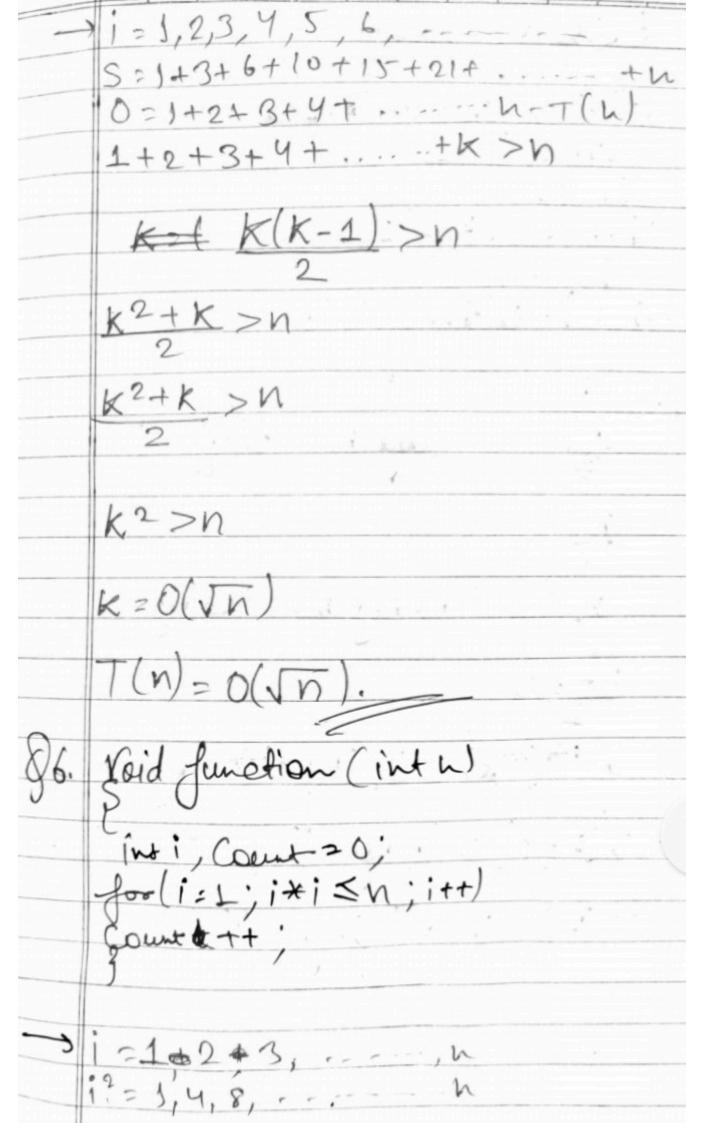




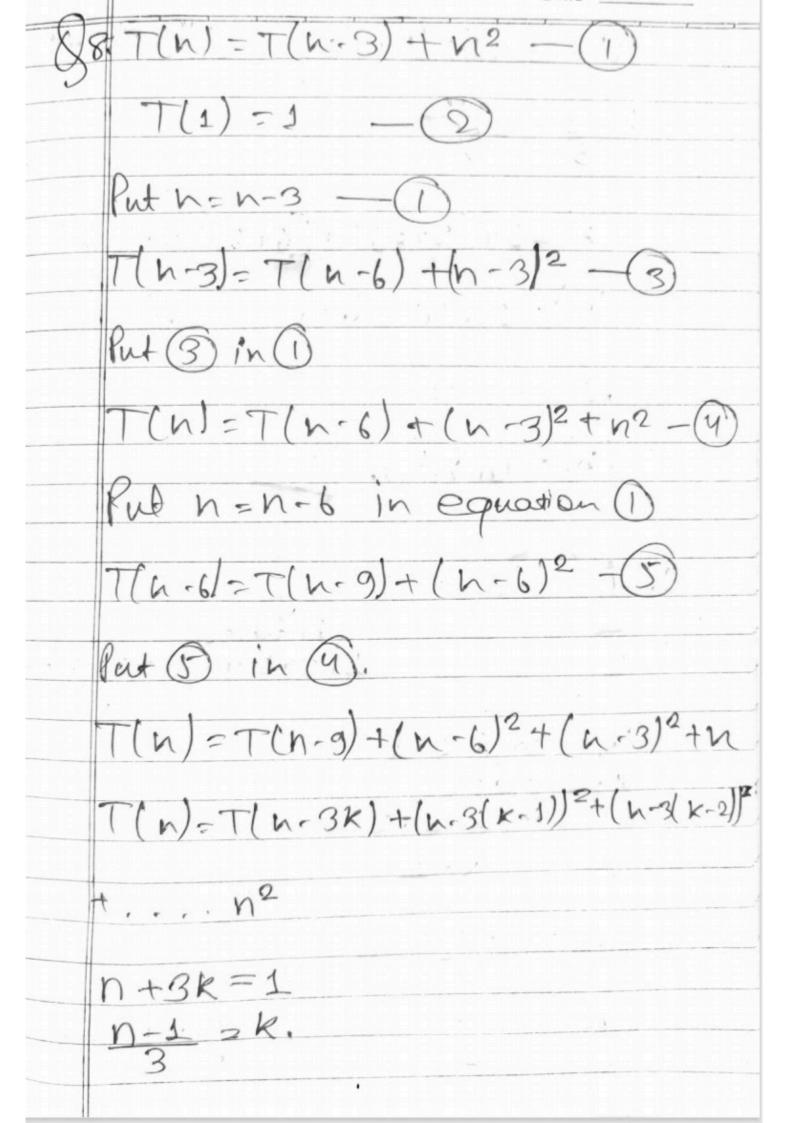
(1=1ton) = tk = ase K-1 n=2K = 2 N = QK . = log(2n) = klog2 2 log(n+1) = k 0(k) = 0(1+ clagn) = 0(clag(n))

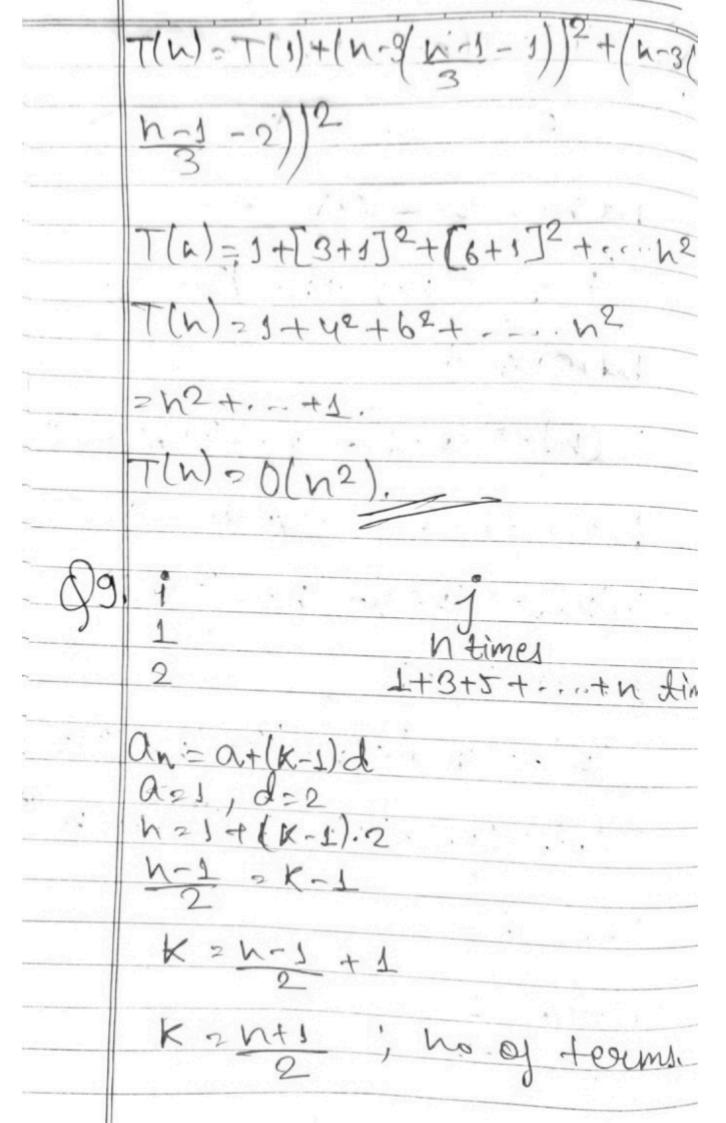


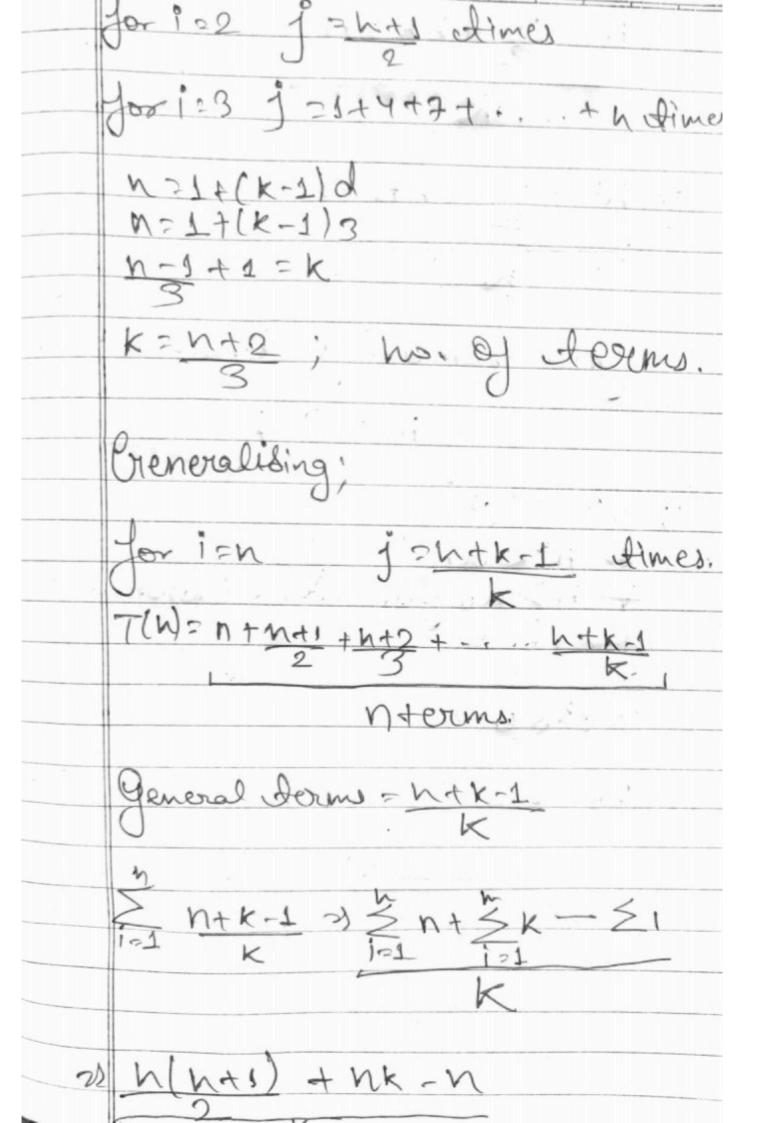




12 < n & 1 < Jn the form tx = a+(x-1)d a=1, d= JN=1+(K-1)1 +(n)=0(vn) elog(n) log(n) logn (u) gal O(i\*j\*k) = O((n+1)\* logn\* S 0(n+1) \* (ligh)2) T(n)=0(n(log,n)2).







-> n2+n+nk-n n2+n+hk-h after removing Constant to  $T(n) = O(n^2)$ nk=0(ch)
as nk < a.ch to no for come Constant 3) 1K × O(2): no=1 & C=2.