Counting Sort: printer every a very material for i = 1 to k → n est  $doc[i] \leftarrow 0$  $\rightarrow$  1+n+(n-1) for i e 1 ton doc[A[j]] + c[A[j]] +1 > n+n for i ≥ 2 to K \_ 1 + n + (n-1) doc[i] < c[i]+c[i-1] > n+n forc j &n down to 1. do B[c[Atj]] ← A[j] → 1+. n+(n-1) c [A[j]] = c [A[j]]-1]-1 → n+n T(n) = 2n + n + 2n + 2n + 2n + 2n + 2n + 2n> 15n T(n) = 15n n 70. g(n) = n So T(n) is o(n)