Imp: Time and Space Complexity of KNIN task day) you what would by time one space complexity. Input: Drain, K, Ng, ERd. output: yer KNTNPt=1] Pseudo code for xi in Dirain ntts 2 compute d(xi, ya) > di Theep the smallest k-distant (ni girdi) o(d) & KN NPF=[".' Kissmall -1. total space complexity = O(nd) time complants and [d < c n =) o(n) n -> 1's significantly large. Space complemity = at evalution time = space that is needed to evaluted xxy you O(nd)

i.e. we have to store the whole of my Drain in memory for calculation. Letis go little mone deeper. So, fax ue glt time complexity =0 (nd) Space complemely = O(nd) 364 K (Amazon good review exemple) N= 36-1. N= 100K -> (BOW) 36400m -> 36 GB of data (APP 302) So, almost aroung 36 GB of RAM to run my test. OK, Was talk about time complemely O(nd) = 36 Billions computation -> It is huge At So, we are having space complexity large time complexity sizes higher. Thes is the biggest space problem with KNINT That is winy people don't upe it (most of the