

Exercice 2: (A) The outer loop runs 12 times The first inner loop nums ntimes
The last inner loop runs 5000
time por O(1) The perond uner loop uns i très n2+n2-1+ - +1= (n2+0/14) DoT(N) = 0 (n2xn) + 0 (n4). T(N)=0 (74

we for K such that  $\frac{n}{2K}$  < No K & log too (n 100 | zetum fct 2 (n-2,m) ~ 0(1) ele return (n/2, m) 0 (leg n)

(C) The outer loop in times - The first invertoon o(ne) - The Decond inner loop. O(1+2+--+n-1) = O(m(1))= O(n) - The last is O(11. Ro T(n/=0(n2). t rercice 3; The first vesion, N+ m-12. + 1= (n+1) n = n24 because it travesse n'émis thom n-1 until 1.

-The second reasion, - It traverse firstly to each the mod of the linked list then let traverse to the first wode and print each node 20 O(n). The second version is faster.