Linked List 2 Wednesday, 15 September 2021 9:05 PM Shallow Copy Deep Copy node X = new Node (10); node x = new Node (10); print (x. data); // 5 print (x. data); //10 for a given linked list, create its deep copy. struct node of int data; Ver. nardom = map | 2. handom / SC= O(1) x. reat. lardom = x. rardom. rest; TC = O(N) n = n. nest. nest p1. next = p2. next $\rho^2 = \rho_2$. rest 0 - Check if the given linked list is patindrome list. $\frac{2y}{1} \rightarrow \boxed{3} \rightarrow \boxed{3} \rightarrow \boxed{1} \rightarrow \text{null}$ Ary > True/1 Ans > False (0 $\boxed{1} \rightarrow \boxed{2} \rightarrow \boxed{3} \rightarrow \boxed{1} \rightarrow nell$ $\Rightarrow \frac{\pi_{1}}{1} \rightarrow \frac{\pi_{2}}{3} \qquad \frac{\pi_{2}}{3} \leftarrow \frac{\pi_{2}}{1} \qquad \chi_{2} = O(N) \qquad SC = O(1)$ a→ Return length of longest palindrome liet that exist in LL.
ricrosoft/gameskraft/FB/Oracle/Airbnb/Amozon (y) $2 \rightarrow 1 \rightarrow 2 \rightarrow 1 \rightarrow 2 \rightarrow 1 \rightarrow 3 \rightarrow 2 \rightarrow ned$ rull 4 2 < 1 < 2 < 1 < 2 < 1 < 2 < 1 < 3 Ars = 5 Sc=O(N) Start, check every end, & find the rest H2

sul-linked list with more length which is palindrome. $S = H1; \quad ans = 0;$ size = n;while (s!= null) { len = size; y start while(ler >0) & if (check (lan, S, E)) & //check if S-E is palishene are = mose (ang len); $TC = O(N^3)$ E = E → reset; len --; SC = O(N) $S = S \rightarrow next;$ estur are; bool check (ler, p1, p2) d. while (len > 1 & k p1. data == p2. data) { p1 = p1. nest; retuen (len 2=1); optimize + I node consider it as center & sheek the more leigth palindrane possible. T(=0/N2) Some way sonsider every 2 nodes to be the center, if I only if data in 2 nodes is same. $TC = O(N^2)$ SC = O(1)V center O(N)
Trovel O(N) y [x x] x 3 2 x () x 3 x 3 x