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Q1. program to implement memory efficient Doubly Linked list.

x. Insert a new node at the begining:

void insert (Node *head, int data)

Node *p = new Node(); p => data = dasa;

p=> next = * head ;

ef (*head!=NIII)

(*head)=>next = XOR (p, (*head)=>
next);

* bead = p;

A

Invest a node at the end of list: void insertend (Node x head, int daya) Mode x cust = head; Node x DEET-NULL if (xhead == NULL) Mode *p = new Mode(); P?data: data; P-Trext = NULL? while (curr 1 = NULL) next = XOR (prev, cur->next); Dren = CUZZ; CUBS = Next: cutr -> next = xor (p, curr)