23-09-2020 AKSHAY METTUR M. 1BM18(5010 ADS LAB WEEK 1 WRITE UP => Implement Memory efficient doubly linked list =) Using XOR Insert at beginning

func insert bay (Node n, int data). {

Newnade = new Node (); newrode > data = data; newnode > npx = n; n = new node; Insert at End func inserted (Node n, int data) { Node newsn = new Node (); News - data = data; if (in) 3. { news - npx = n; else { Node cur= n; Node prev = NULL; Node nent; while (XOR (prev, wir > Apx) 1= NULL) { next = xor (prey curr -> npn); prev = curr; (urr = neat;

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newn > npx = cur;

Cur > npx = Yor (prev, neon);

XOR function.

func XOR (Node a, Node b) {

} return (Node) (uintptr.t)(a) *\(\(\text{uintptrt}\)\);