

XOR-Linked List

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// Insert at the beginning of Linked List

Node *new-node = new Node();

new-node → data = data;

new-node → link = xor(NULL, head);

*head → link = xor(new-node, *head → link)

*head = new-node

// Insert at the end

Node *new-node = new Node();

new-node → data = data

Node *curr = head; Node *prev = NULL

~~new-node → link = xor~~

while (*curr != NULL) { // to go to last node

 curr → curr → link;

 prev = curr

new-node → link = xor(curr, NULL);

*curr → link = xor(new-node, ^{prev}~~curr → link~~)