

XOR Doubly linked list

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Pseudo code:

```
Node {  
    int data  
    Node * npx      // xor between prev and next  
}  
  
Node XOR(Node * a, Node * b) {  
    return (Node *) a ^ b  
}
```

~~void insert Beg (Node * head, int data)~~

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~~Node * newn = new Node()~~

~~newn->data = data~~

~~newn->npx = head~~

~~if (*head != NULL) *head->npx = XOR(newn, *head->npx)~~

~~*head = newn~~

~~}~~

void insert End (Node * head, int data) {

Node * newn = new Node()

newn->data = data

if (*head == NULL) {

newn->npx = *head

*head = newn

else {

Node * cur = *head

Node * prev = NULL

Node * next

while (XOR(prev, curr->npx) != NULL) {

next = XOR(prev, curr->npx)

prev = curr

curr = next

}

newn->npx = curr

curr->npx = XOR(prev, newn)

}

}

print list (Node * head) {

print (curr->data)

next = XOR (prev, curr->npx)

prev = curr

curr = next

}