

## XOR Linked List

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Insert at front

```
void insert-front(Node head, int data)
{
    Node temp = new Node(data);

    temp.next = head;

    if (head != NULL)
    {
        head.next = XOR(temp, head.next);
    }
    head = temp;
}
```

```
Node XOR(Node a, Node b)
{
    return (Node) (a ^ b);
}
```

```
void insert-last(int data, Node head)
{
    Node temp = new Node(data);
    Node curr = head, prev = NULL, x;
    while (curr.next != NULL)
    {
        x = XOR(prev, x);
        prev = curr;
        curr = curr.next;
    }
    temp.next = prev;
    prev.next = XOR(prev.next, temp);
}
```