XOR Linked List

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```
typedef struct Node
{
        int data;
        struct Node* npti;
} node;

node *head;

node* xor( node *a, node *b)
{
    return (node*) ( (a) ^ (b))
}

void insert_begin ( int data)
{
        node *temp = (node*) malloc (size of (node));
         temp -> data = data;
         temp -> npti = head;
        if (head != NULL)
        {
            head -> npti = xor(temp, head -> npti);
        }
        head = temp;
}
```

```
void insert_last(int data)
{
    node *temp = (node *) malloc (sizeof (node));
    temp -> data = data;
    node *curr = head, *prev = NULL, *next;
    while (curr != NULL)
    {
        next = xor( prev, curr -> npti);
        prev = curr;
        curr = next;
    }
    temp -> npti = prev;
    prev -> npti = xor (prev -> npti, temp);
}
```