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Doubly Linked List (XOR)

```
void insert (Node ** head_ref, int data)
{
    Node * new_node = new Node();
    new_node -> data = data;

    new_node -> npx = * head_ref;

    if (* head_ref ! = NULL)
    {
        (* head_ref) -> npx = XOR (new_node,
                                   (* head_ref -> npx);
    }

    * head_ref = new_node;

}
```

```
Void insert-end ( Node** head-ref, int data).
    {
        Node * new-node = newNode();
        new-node -> data =data;
        new-node -> npx = tail XOR NULL;
        new-node -> prev + temp;

        if ( * head-ref ==NULL)
        {
            * head-ref = new-node;
            tail = new-node;
        }
        else
        {tail -> next = tail -> next XOR NULL XOR
                    new;
            new-node -> npx = tail XOR NULL;
            tail = new-node;
        }
    }
```