XOR Linked List

```cpp
#include <lists/stdext.h>
#include <inttypes.h>
using namespace std;


class Node
{ public : int data ;
          Node* npx ;
};


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


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 printList (Node *head)
{   Node * curr = head;
    Node * prev = NULL;
    Node * next;
    cout << "Following are the nodes of linked list : \n";
    while ( curr != NULL)
    {   cout << curr -> data << " ";
        next = XOR (prev, curr -> npx);
```

```
    prev = curr;
    curr = next;
  }
}
```