

```
Node
{
    int data
    Node * npx
}

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

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
}

printList ( Node *head )
{
    Node *curr ← head
    Node *prev ← NULL;
    Node *next
    while ( curr != NULL )
    {
        next ← XOR ( prev, curr → npx )
        prev ← curr
        curr ← next
    }
}

main ( )
{
    Node *head ← NULL
    insert ( &head, 10 )
    printList ( head )
    return 0
}
```