#include <stdio.h>

#include <stdlib.h>

Struct node {

Int data;

Struct node\* npx;

};

Struct node\* XOR(struct node \*a, struct node \*b) {

Return (struct node\*) ((unsigned int) (a) ^ (unsigned int) (b));

}

Void insert(struct node \*\*head\_ref, int data) {

Struct node \*new\_node = (struct node \*) malloc(sizeof(struct node));

New\_node->data = data;

New\_node->npx = XOR(\*head\_ref, NULL)

If (\*head\_ref != NULL) {

Struct node\* next = XOR((\*head\_ref)->npx, NULL);

(\*head\_ref)->npx = XOR(new\_node, next);

}

\*head\_ref = new\_node;

}

Void printList(struct node \*head) {

Struct node \*curr = head;

Struct node \*prev = NULL;

Struct node \*next;

Printf(“Following are the nodes of Linked List: \n”);

While (curr != NULL) {

Printf(“%d “, curr->data);

Next = XOR(prev, curr->npx);

Prev = curr;

Curr = next;

}

}

Int main() {

Struct node \*head = NULL;

Insert(&head, 10);

Insert(&head, 20);

Insert(&head, 30);

Insert(&head, 40);

printList(head);

return (0);

}