A RAVINDH R
IBM18CS145

```
func    insertFirst ( Node head, int data):

        Node  new_node = new Node();
        new_node → data = data

        if  head != NULL:
            head → next = XOR( new_node, head →npx)
                   (npx)

        head = new_node


func    insertLast ( Node head, int data):
        Node  new-node = new Node()
        new-node → data = data

        if  head == NULL:
            head = new-node
            return

        Node  curr = head
        Node  prev = NULL

        while ( curr != NULL)
            next = XOR (prev, curr → npx)
            prev = curr
            curr = next

        new_node → npx  = XOR( curr
        curr → npx  = XOR( prev, new_node)
```