

# ADS LAB WRITEUP

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13M18CS149

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## Program - 1

1) To insert a new node at the beginning

void insertfront (Node \* head, int value)

```
{  
    Node * new = new Node();  
    new -> data = value;  
    new -> next = head;  
    if (head != NULL)  
    {  
        head -> next = XOR(new, head -> next);  
    }  
    head = new;  
}
```

2) To insert a new node at the end.

void Insertend (Node \* head, int value)

```
{  
    Node * new = new Node();  
    new -> data = value;  
    Node * curr = head;  
    Node * prev = NULL;  
    while (curr != NULL) {  
        next = XOR(prev, curr -> next);  
        prev = curr;  
        curr = next;  
    }  
}
```

(1)

Shikha

## ADS Lab 2

```
cur → next = XOR(cur → next, new);  
new → next = NULL;
```

```
}
```