

1) XOR Linked list

insert beginning:

```

{
    new_node → data = data;
    new_node → link = *head;
    if (*head != NULL) {
        *head = new_node
        *head → link = XOR(new_node, *head);
    }
    *head = new_node;
}

```

insert end:

```

{
    node *next, *prev = NULL, *curr = *head;
    new_node → data = data;
    new_node
    if (*head == NULL)
    {
        new_node → next link = XOR(*head, new_node)
        new_node → link = new_node;
        *head = new_node;
    }
    else {
        while (curr → link != NULL)
        {

```

next = XOR (prev, curr → link);

prev = curr;

curr = next;

}

curr → link = ~~XOR~~ XOR (prev, new-node);

new-node → link = NULL;

}