

XOR Linked list

13M19CS407

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```

class Node
class XORLinkedList:

```

```

    def __init__(self, data)

```

```

        self.data = data

```

```

        self.next = None

```

```

class XORLinkedList

```

```

    def insertfront(self):

```

```

        val
        data = insert_val()

```

```

        new if self.head = None

```

```

            self.head = Node(val)

```

```

            return

```

```

        new_node = Node(val)

```

```

        new_node.next = XOR(null, self.head)

```

```

        p self.head.next = XOR(self.head.next, new_node)

```

```

        self.head = new_node

```

```

    def insertend(self):

```

```

        val
        data = insert_val()

```

```

        if self.head = None

```

```

            self.head = Node(val)

```

```

            return

```

to traverse
temp next can be
calculated using
XOR (curr.next, prev)

```

        while (self.head.next temp = self.head

```

```

            while (self temp.next):

```

```

                temp = temp.next

```

```

                prev = temp

```

```

        new_node = Node(val)

```

```

        new_node.next = XOR(null, temp)

```

```

        temp.next = XOR(prev, new_node)

```