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IBM18CS052

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Batch 3  
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1) XOR Linked list

Insert at start

$n_{\text{ptr}} = \text{XOR}(\text{null}, \text{head})$

if (!head):

$\text{head} \cdot \text{next} = \text{XOR}(n_{\text{ptr}}, \text{head} \cdot \text{next})$

$\text{head} = n_{\text{ptr}}$

Insert at end

$\text{temp} = \text{head}$

while (temp.next != null):

$\text{temp} = \text{temp} \cdot \text{next}$

~~newNode = new~~

$\text{newNode} \cdot \text{next} = \text{XOR}(\text{newNode}, \text{null})$

$\text{temp} \cdot \text{next} = \text{XOR}(\text{newNode}, \text{temp} \cdot \text{next})$