23/9/20

Doubly Linked List

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```
#include <bits/stdc++.h>
#include <inttypes.h>

void insertBeg(Node *a, Node *b){
  return (Node *)((uintptr_t)(a) ^ (uintptr_t)(b));
}
void insertBeg(Node **head, int data) {
 Node *new_node = new Node();
 new_node -> data = data;
 new_node -> npx = *head;
 if (*head != NULL) (*head) -> npx = XOR (new_node,
 (*head) -> npx);
   *head = new_node;
}
void insertEnd (Node **head, int data) {
 Node *new_node = new Node();
new_node -> data = data;
if (*head == NULL) {
  new_node -> nxp = *head;
  *head = new_node;
}
else {
  Node *curr = *head;
  Node *prev = NULL;
  Node * next;
while (xor(prev, curr -> npx) != NULL) {
    next = XOR(prev, curr -> npx);
    prev = curr;
}   curr = next;
```

23/09/20

```
new_node -> npx = curr;
curr -> npx = xor(prev, new_node);
    }
}
```

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