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1BM18CSD27

XOR Linked List

```
// XOR operation
struct node * XOR (struct node* a , struct node* b)
{
    return ( struct node* ( (uintptr_t(a)) ^ (uintptr_t(b)) ));
}

// Void insert_end(int data, NODE head)
{
    struct node* newnode = new (struct node);
    newnode -> data = data;
    newnode -> link = NULL;
    if (head == NULL)
    {
        head = newnode;
    }

NODE newnode = getnode( )
newnode -> data = data ;
If(head == NULL)
  {  head = newnode;
  }
else{
      NODE current = head;
       NODE   Prev = NULL;
       NODE   x;
       while (current -> link != Prev)
       {     x = current;
             current = XOR( current -> link , Prev);
             Prev = x;
       }
current -> link = XOR ( current -> luk , new node);
newnode -> luk  = current ; } }
```

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```
Void insert_beginning (int data, NODE head ) {
{
    NODE newnode = getNODE ( );
    newnode -> data = data;
    newnode -> link = NULL;
    if (head == NULL)
    { head = newnode;
    }
    else
    {   newnode -> link = head;
        head -> link = XOR ( head -> link, newnode);
        head = newnode;
    }.
}
```