Memory efficient doubly linked list

Asked by Varun Bhatia.

Question:
Write a code for implementation of doubly linked list with use of single pointer in each node.

Solution:
This question is solved and very well explained at http://www.linuxjournal.com/article/6828.

We also recommend to read http://en.wikipedia.org/wiki/XOR_linked_list

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```
#include
#include
using namespace std;

class dlist
{
struct node
{
int data;
node *link;
};
node *head,*tail;

public:
dlist(){head=tail=NULL;}

~dlist()
{
node *prev,*current,*temp;
```

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see more

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```
 #include
#include

typedef struct nod
{
   int data;
   struct nod * next;
}node;


void insert( node ** head , int data , node ** tail)
{
   node * temp = (node*)malloc( sizeof(node) );
   temp->data = data;
```


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    temp->next = NULL;

    if ( !(*head))
    {
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@rajx there is a case miss for single node.
here is your code with modification http://ideone.com/vErgLZ

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