

## 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](http://en.wikipedia.org/wiki/XOR_linked_list)

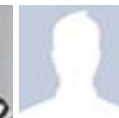
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use xor link list....

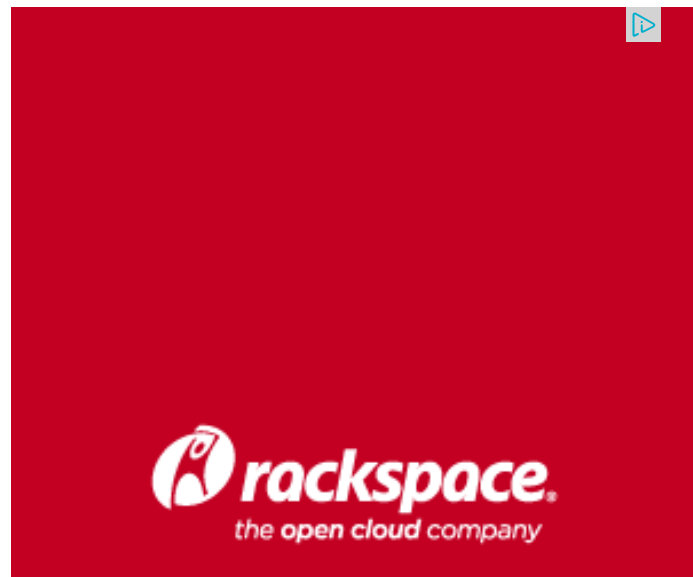
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nandu · 2 years ago

```
#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;
```

[see more](#)

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nandu · 2 years ago

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using namespace std;
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class dlist
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int data;
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node *head,*tail;

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

~dlist()
{
node *prev.*current.*temp:

```

see more

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**rajx** • 3 years ago

```

#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;

```

705



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```
temp->next = NULL;
```

```
if ( !(*head))  
{
```

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**suresh kumar mahawar** ➔ rajx • 3 months ago

@rajx there is a case miss for single node.

here is your code with modification <http://ideone.com/vErgLZ>

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