

Accepted

user5565F submitted at Feb 19, 2024 06:54

Editorial

Solution

Runtime

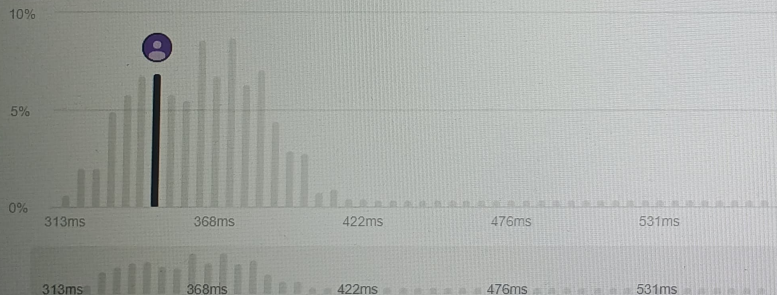
350 ms

Beats 71.89% of users with C

Memory

77.54 MB

Beats 96.31% of users with C



Code | C

```
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     struct ListNode *next;
```

```
1  /**
2  * Definition for singly-linked list.
3  * struct ListNode {
4  *     int val;
5  *     struct ListNode *next;
6  * };
7  */
8  struct ListNode* deleteMiddle(struct ListNode* head) {
9      struct ListNode *temp,*ptr,*ptr1;
10     temp=head;
11     ptr1=head;
12     if(head==NULL||head->next==NULL)
13         return NULL;
14     while(temp!=NULL&&temp->next!=NULL)
15     {
16         temp=temp->next->next;
17         ptr=ptr1;
18         ptr1=ptr1->next;
19     }
20     ptr->next=ptr1->next;
21     return head;
22 }
23 }
```

Saved to local

☒ Testcase [Test Result](#)

Accepted Runtime: 5 ms

• Case 1 • Case 2 • Case 3

Accepted

user5565F submitted at Feb 19, 2024 10:26

Editorial

Solution

Runtime

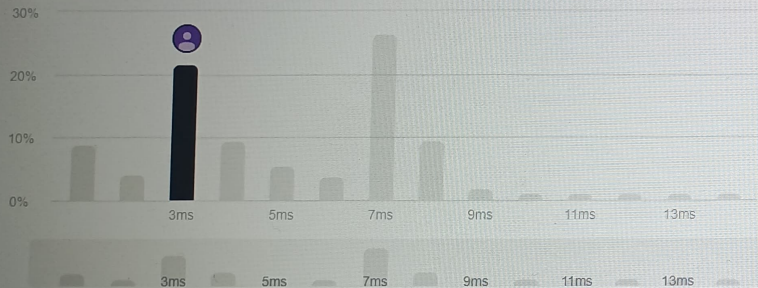
3 ms

Beats 86.96% of users with C

Memory

6.98 MB

Beats 56.98% of users with C



Code | C

```
/**
 * Definition for singly-linked list.
 * struct ListNode {
 *     int val;
 *     struct ListNode *next;
 * };
```

```
5  * struct ListNode *next;
6  * };
7  */
8  struct ListNode* oddEvenList(struct ListNode* head) {
9      if(head==NULL || head->next==NULL)
10         return head;
11     struct ListNode *even=head;
12     struct ListNode *evenhead=head->next;
13     struct ListNode *odd=head->next;
14     // temp=head;
15
16     while(even->next!=NULL&&odd->next!=NULL)
17     {
18         even->next=even->next->next;
19         even=even->next;
20         odd->next=odd->next->next;
21         odd=odd->next;
22     }
23     even->next=evenhead;
24     return head;
25 }
```

Saved to local

☒ Testcase | [Test Result](#)

Accepted Runtime: 0 ms

• Case 1 • Case 2

Input

3. write a program

- To construct Binary search tree
- Traverse the tree using 'inorder, postorder, preorder.
- display the elements 'in the tree.

struct node {

int data;

struct node * left;

struct node * right;

};

struct node * create node (int data)

{

struct node * new_node = (struct node *) malloc (sizeof (struct node));

new_node -> data = data;

new_node -> left = new_node -> right = NULL;

return new_node;

}

struct node * insert (struct node * root, int data)

{

if (root == NULL)

return create node (data);

{

if (data < root -> data)

root -> left = insert (root -> left, data);

else if (data > root -> data)

root -> right = insert (root -> right, data);

return root;

}


```
void inorder(struct node *root)
```

```
{
```

```
if (root != NULL)
```

```
{
```

```
inorder(root->left);
```

```
printf("%d", root->data);
```

```
inorder(root->right);
```

```
}
```

```
}
```

```
void preorder(struct node *root)
```

```
{
```

```
if (root != NULL)
```

```
{
```

```
printf printf("%d", root->data);
```

```
preorder(root->left);
```

```
preorder(root->right);
```

```
}
```

```
}
```

```
void postorder(struct node *root)
```

```
{
```

```
if (root != NULL)
```

```
{
```

```
postorder(root->left);
```

```
postorder(root->right);
```

```
printf("%d", root->data);
```

```
}
```

```
}
```

```
void display(struct node node *root)
```

```
{
```

```
if (root != NULL)
```

```
{
```

```
printf("Inorder:");
```

```
inorder(root);
```

```
printf("Preorder:");
```

```
preorder(root);
```

```
printf("Postorder:");
```

```
postorder(root);
```

int main()

{

struct node * root = NULL;

root = insert(root, 500);

root = insert(root, 300);

root = insert(root, 900);

root = insert(root, 550);

root = insert(root, 50);

display(root);

}

O/P:

Inorder : 50 150 300 500 550 900

~~Post order~~
Preorder : 500 300 150 50 900 550

~~Preorder~~
Postorder : 50 150 300 550 900 500

Aug. 02. 24

1. Delete the middle node of a linked list

struct ListNode * deleteMiddle(struct ListNode * head)

{

struct ListNode * temp, * ptr, * ptr1;

temp = head;

ptr1 = head;

if (head == NULL || head->next == NULL)

return NULL;

while (temp != NULL && temp->next != NULL)

{

temp = temp->next->next;

ptr = ptr1;

ptr1 = ptr1->next;

}

ptr->next = ptr1->next;

return head;

}

Q. Odd Even Linked List - Leet code

```
struct ListNode* oddEvenList(struct ListNode* head)
```

```
{
```

```
    if (head == NULL || head->next == NULL)
```

```
        return head;
```

```
    struct ListNode *even = head, *evenhead = head->next, *odd = head->next->next;
```

```
    while (even->next != NULL & odd->next != NULL)
```

```
    {
```

```
        even->next = even->next->next;
```

```
        even = even->next;
```

```
        odd->next = odd->next->next;
```

```
        odd = odd->next;
```

```
    }
```

```
    even->next = evenhead;
```

```
    return head;
```

```
}
```