

18M19CS053

Divyanshu Thakur

struct node

{

int data;

struct node * next;

};

struct node * head = NULL;

int length = 0;

void insertend (int ele)

{

struct node * newnode, * temp;

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

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

newnode->data = ele;

newnode->next = NULL;

if (head == NULL)

{

head = newnode;

length = 1;

}

else

{

temp = head

while (temp->next != NULL)

{

~~head = head->next~~

temp = temp->next;

}


```
temp->next = newnode;
length++
```

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}

Void insertfront(int ele)

{

```
    struct node * temp;
    temp = (struct node *) malloc(sizeof(struct node));
    temp->data = ele;
    temp->next = new head;
    head = temp;
    length++;
```

}

Void insertrandom(int ele, int pos)

{

```
    if (pos == 1)
        insert insertfront (ele);
    else if (pos > length + 1)
        insertend (ele);
```

else

{

```
    struct node * temp;
    temp = (struct node *) malloc(sizeof(struct node));
    struct node * inst;
    inst = (struct node *) malloc(sizeof(struct node));
```



```
temp = head;  
for (i = 0; i < pos - 1; i++)  
{
```

```
    temp = temp->head next;
```

```
}
```

```
inst->data = ele;
```

```
inst->next = temp->next;
```

```
temp->next = inst;
```

```
length++;
```

```
}
```

```
}
```