





Linked List

```
#include <stdio.h>
#include <stdlib.h>
struct Node
{
    int data;
    struct Node *next;
}*first=NULL;
void create(int A[],int n)
{
    int i;
    struct Node *t,*last;
    first=(struct Node *)malloc(sizeof(struct Node));
    first->data=A[0];
    first->next=NULL;
    last=first;
    for(i=1;i<n;i++)
        t=(struct Node*)malloc(sizeof(struct Node));
        t->data=A[i];
        t->next=NULL;
        last->next=t;
        last=t;
    }
}
void Display(struct Node *p)
{
    while(p!=NULL)
    {
        printf("%d ",p->data);
        p=p->next;
```

```
}
}
void RDisplay(struct Node *p)
{
    if(p!=NULL)
    {
        RDisplay(p->next);
        printf("%d ",p->data);
    }
}
int Delete(struct Node *p,int index)
{
    struct Node *q=NULL;
    int x=-1,i;
    if(index < 1 || index > count(p))
        return -1;
    if(index==1)
    {
        q=first;
        x=first->data;
        first=first->next;
        free(q);
        return x;
    }
    else
    {
        for(i=0;i<index-1;i++)</pre>
        {
             q=p;
             p=p->next;
        }
        q->next=p->next;
        x=p->data;
        free(p);
        return x;
```

```
}
int main()
{
    int A[]={10,20,30,40,50};
    create(A,5);
    printf("%d\n",Delete(first),2);
    Display(first);
    return 0;
}
```