```c
#include<stdio.h>
#include<stdlib.h>

struct node
    {
        int data;
        struct node *next;
    }*head=NULL;

void createLL()
{

    int n,i,item;
    printf("///////////////////////////LINKED LIST///////////////////////////");
    printf("\n Enter the No. of elements in List\n");
    scanf("%d",&n);
    struct node *q=head;

    for(i=1;i<=n;i++)
    {
        struct node *p=(struct node *)malloc(sizeof(struct node));
        printf("\n enter the element");
        scanf ("%d",&item);
        p->data=item;

        if(head==NULL)
        {
            p->next=NULL;
            head=p;
            q=p;
        }
        else
        {
            q->next=p;
            p->next=NULL;
            q=q->next;
        }

    }
}

void display()
{
    struct node *p=head;
    while(p!=NULL)
    {
        printf("%d",p->data);
        printf("--->");
        p=p->next;
    }
}

void ReverseInPair(struct node *h)///// just swapped the
integers//////////////////////
{
    struct node *p=h,*q=h;
    if(h==NULL||h->next==NULL)
        return;
    else
    {
        q=p->next;
        p->data=p->data+q->data;
        q->data=p->data-q->data;
        p->data=p->data-q->data;
        ReverseInPair(q->next);
    }
}
```

```c
66
67  }
68
69  void ReverseLinks()
//////////////IMPORTANT//////////////////////////////////////////////////
70  {
71      struct node *p=head,*q=p->next,*r=q->next;
72      head=head->next;
73      while(r->next)
74      {
75          p->next=r->next;
76          q->next=p;
77          p=r;
78          q=p->next;
79          r=q->next;
80          if(r==NULL)
81          {
82              q->next=p;
83              p->next=NULL;
84              return;
85          }
86      }
87
88      if(r->next==NULL)
89      {
90          p->next=r;
91          q->next=p;
92          r->next=NULL;
93      }
94
95  }
96
97  void main()
98  {
99      createLL();
100     display();
101     printf("\n\nreversing by swapping the integers\n\n");
102     // ReverseInPair(head);
103     // display();
104     printf("\n\nreversing by changing  the Links\n\n");
105     ReverseLinks();
106     display();
107 }
```