```
#include <iostream>
using namespace std;
int a[] = \{1,2,3,4\};
void reverse(int a[],int l,int r){
    while(l<r){</pre>
        // 交换两个变量
        int temp = a[1];
        a[1] = a[r];
        a[r] = temp;
        1 ++;
        r --;
   }
}
void show(int a[],int len){
    for(int i = 0; i < len; ++i)
    cout<<a[i];</pre>
}
void loopR(int a[],int l,int r,int k){
    //reverse all
    reverse(a,1,r);
    //reverse k-th
    reverse(a,1,1+k-1);
    //reverse tail
   reverse(a,l+k,r);
}
void deleteItem(int a[],int l,int r,int num){
    int i = 1;
    for( ; i <= r;++i)
       if(a[i]==num) break;
    for( ;i<=r;++i){
       a[i-1] = a[i];
}
int main(){
    loopR(a,0,3,3);
    show(a,4);
   return 0;
}
```

```
#include <iostream>
using namespace std;
struct node{
   int val;
   node* next;
};
node* create(){
   int n;
   cin>>n;
   if(n==-1) return NULL;
   node * ret = new node;
   ret->val = n;
   ret->next = create();
   return ret;
}
void show(node * head){
   while(head){
        cout<<head->val<<" -> ";
        head =head ->next;
   cout << "NULL" << endl;
}
node* reverse(node* head){
   if(head == NULL) return NULL;
   node * p = head ->next;
   head ->next = NULL;
   while(p){
       node * t = p->next;
       p->next = head;
       head = p;
        p = t;
   return head;
}
node * merge(node * p,node* q){
   node* fake = new node;
   fake -> next = NULL;
   node * t = fake;
   while(p&&q){
       node * minp ;
```

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if(p->val < q->val){
          minp = p;
           p = p->next;
       }
       else{
          minp = q;
          q = q->next;
       node* temp = minp->next;
       minp->next = t->next;
       t->next = minp;
       t = minp;
   if(p) t->next = p;
   if(q) t->next = q;
   return fake->next;
}
int main(){
   node * head = create();
   show(head);
   node * head1 = create();
   show(head1);
   head = merge(head,head1);
   show(head);
   return 0;
}
```