#include<stdio.h>

#include<stdlib.h>

int top=-1,stk[50];

struct node

{

int ele;

struct node \* next;

}\*head=NULL, \*t, \*p, \*newnode;

void create()

{

int i, n, ele;

printf("size:\n");

scanf("%d",&n);

printf("elements:\n");

for(i=1;i<=n;i++)

{

scanf("%d",&ele);

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

newnode->ele=ele;

newnode->next=NULL;

if(head==NULL)

{

head=newnode;

p=newnode;

}

else

{

for(p=head;p->next!=NULL;p=p->next);

p->next=newnode;

p=newnode;

}

}

}

void push(int x)

{

top=top+1;

stk[top]=x;

}

void reverse()

{

int i;

for(p=head;p!=NULL;p=p->next)

{

push(p->ele);

}

for(i=top;i>=0;i--)

printf("%d->",stk[i]);

}

void display()

{

t=head;

printf("\nreverse of the list:");

while(t!=NULL)

{

printf("%d->",t->ele);

t=t->next;

}

}

int main()

{

create();

reverse();

display();

return 0;

}