#include<iostream>

using namespace std;

class Node{

public:

int data;

Node \*next;

Node(int d)

{

data=d;

next=NULL;

}

};

void insertAtEnd(Node \*&head,int num)

{

if(head==NULL)

{

head=new Node(num);

return;

}

Node \*tail=head;

while(tail->next!=NULL)

tail=tail->next;

Node \*n=new Node(num);

tail->next=n;

return;

}

void print(Node \*head)

{

Node \*temp=head;

while(temp!=NULL)

{

cout<<temp->data<<" ";

temp=temp->next;

}

}

Node\* merge(Node \*head1,Node \*head2)

{

if(head1==NULL)

return head2;

else if(head2==NULL)

return head1;

Node \*head3;

//Compare head1 and haed2 for smaller elemnet

if(head1->data < head2->data)

{

head3=head1;

head3->next=merge(head1->next,head2);

}

else {

head3=head2;

head3->next=merge(head1,head2->next);

}

return head3;

}

int main()

{

Node \*head1=NULL;

Node \*head2=NULL;

int n,m,i,num;

cin>>n>>m;

for(i=0;i<n;i++)

{

cin>>num;

insertAtEnd(head1,num);

}

for(i=0;i<m;i++)

{

cin>>num;

insertAtEnd(head2,num);

}

head1=merge(head1,head2);

print(head1);

//print(head2);

}