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#include<stdio.h>

void main(){
int a[10],b[10],c[20],n,m,temp;

printf("Enter the size of the first array");
scanf("%d",&n);
printf("Enter the elements");
for(int i=0;i<n;i++){
scanf("%d",&a[i]);
}

for(int i=0;i<n;i++){
for(int j=i+1;j<n;j++){
if(a[i]>a[j]){
temp=a[i];
a[i]=a[j];
a[j]=temp;
}
}
}

for(int i=0;i<n;i++){
printf(" %d",a[i]);
}

printf("\nEnter the size of the second array");
scanf("%d",&m);
printf("Enter the elements");
for(int i=0;i<m;i++){
scanf("%d",&b[i]);
}

for(int i=0;i<m;i++){
for(int j=i+1;j<m;j++){
if(b[i]>b[j]){
temp=b[i];
b[i]=b[j];
b[j]=temp;
}
}
}

for(int i=0;i<m;i++){
printf(" %d",b[i]);
}

int count=0;
int bcount=0;
int count=0;

while(count<n && bcount<m){

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if(a[account]<b[bcount]){
c[count]=a[account];
count++;
account++;
}
else{
c[count]=b[bcount];
count++;
bcount++;
}
}

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while(account < n) {
    c[count] = a[account];
    count++;
    account++;
}

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while(bcount < m) {
    c[count] = b[bcount];
    count++;
    bcount++;
}

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printf("\n");
for(int i=0;i<m+n;i++){
printf(" %d",c[i]);
}
}

```

