#include<stdio.h>

void printUnion(int array1[],int n,int array2[],int m);

int main()

{

int n,m;

printf("Enter number of 1st array elements\n");

scanf("%d",&n);

printf("Enter number of 2nd array elements\n");

scanf("%d",&m);

int array1[n] ;

int array2[m] ;

printf("Enter 1st array elemets\n");

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

{

scanf("%d",&array1[i]);

}

printf("Enter 2nd array elemets\n");

for(int j=0;j<m;j++)

{

scanf("%d",&array2[j]);

}

printf("New array elements are\n");

printUnion(array1, n, array2, m);

return 0;

}

void printunion(int array1[],int n,int array2[],int m)

{

int i,j,p=0,count=0;

int c[p];

while(i<n && j<m)

{

if(array1[i]<array2[j])

{

c[p]=array1[i];

p++;

i++;

}

else if(array1[i]>array2[j])

{

c[p]=array2[j];

p++;

j++;

}

}

while(i<n)

{

c[p]=array1[i];

p++;

i++;

}

while(j<m)

{

c[p]=array2[j];

p++;

j++;

}

for(p=0;p<n+m;p++)

{

printf("%d\t",c[p]);

}

}