```
#include<stdio.h>
void main()
   int a[20],b[20],c[40],i,j,k,m,n;
   printf("Size of first array\n");
   scanf("%d",&m);
   printf("Enter %d value in sorted order
\n",m);
   for(i=0;i<m;i++)
scanf("%d",&a[i]);
   printf("Enter size of Second array \n");
   scanf("%d",&n);
   printf("Enter %d value in sorted order
\n",n);
   for(i=0;i<n;i++)
scanf("%d",&b[i]);
   i=j=k=0;
   while (i < m \& \& j < n)
   if(a[i]>=b[i])
      c[k++] = b[j++];
   else
      c[k++]=a[i++];
   while(i<m)</pre>
      c[k++]=a[i++];
   while(j<n)</pre>
      c[k++] = b[j++];
   printf("\nA list is :\n");
   for(i=0;i<m;i++)
     printf("%5d",a[i]);
   printf("\nB list is :\n");
   for(i=0;i<n;i++)
```

```
printf("%5d",b[i]);
printf("\nC list is :\n");
for(i=0;i<m+n;i++)
  printf("%5d",c[i]);
}</pre>
```

Output

```
Size of first array

Enter 2 value in sorted order

Enter size of Second array

Enter 4 value in sorted order

A

S

B list is:

4 5 8 9

C list is:

3 4 5 6 8 9
```

```
Size of first array
3
Enter 3 value in sorted order
1
5
7
Enter size of Second array
3
Enter 3 value in sorted order
2
4
8
A list is:
    1    5    7
B list is:
    2    4    8
C list is:
    1    2    4    5    7   8
```