

Program to merge two sorted arrays.

```
#include <stdio.h>

int main()

{

int ar1[10], ar2[10], ar3[20];

int m,n,i,j,k;

printf("Enter number of elements in array 1 : ");

scanf("%d",&m);

printf("Enter array 1 in sorted order : ");

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

{

scanf("%d",&ar1[i]);

}

printf("Enter number of elements in array 2 : ");

scanf("%d",&n);

printf("Enter array 2 in sorted order : ");

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

{

scanf("%d",&ar2[i]);

}

i=j=k=0;

while(i<m&& j<n)

{
```

```
if(ar1[i]>ar2[j])
{
ar3[k++]= ar2[j++];

}

else

{

ar3[k++]=ar1[i++];

}

}

while(i<m)

{
ar3[k++]=ar1[i++];
}
while(j<n)
{
ar3[k++]= ar2[j++];
}
printf("\nFirst array is :");
for(i=0;i<m;i++)
{
printf("%d",ar1[i]);
}
printf("\nSecond array is :");
for(i=0;i<n;i++)
{
printf("%d",ar2[i]);
}
printf("\nMerged array is :");
for(i=0;i<m+n;i++)
{
printf("%d",ar3[i]);
}

return 0;

}
```



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Run



Debug



Stop

source code

```
5 C#, VB, Perl, Swift, Pro
6 Code, Compile, Run and D
7
8 *****
9 #include <stdio.h>
10 int main()
11 {
12     int ar1[10], ar2[10], ar
13     int m,n,i,j,k;
14     printf("Enter number of
15     scanf("%d",&m);
16     printf("Enter array 1 in
17     for(i=0;i<m;i++)
18     {
19         scanf("%d",&ar1[i]);
20     }
21     printf("Enter number of
22     scanf("%d",&n);
23     printf("Enter array 2 in
24     for(i=0;i<n;i++)
25     {
26         scanf("%d",&ar2[i]);
27     }
28     i=j=k=0;
29     while(i<m&& j<n)
30     {
31         if(ar1[i]>ar2[j])
32         {
```



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```
37 ar3[k++]=ar1[i++];
38 }
39 }
40 while(i<m)
41 {
42 ar3[k++]=ar1[i++];
43 }
44 while(j<n)
45 {
46 ar3[k++] = ar2[j++];
47 }
48 printf("\nFirst array is
49 for(i=0;i<m;i++)
50 {
51 printf("%d",ar1[i]);
52 }
53 printf("\nSecond array is
54 for(i=0;i<n;i++)
55 {
56 printf("%d",ar2[i]);
57 }
58 printf("\nMerged array is
59 for(i=0;i<m+n;i++)
60 {
61 printf("%d",ar3[i]);
62 }
63 return 0;
64 }
```



input



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2  
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```

input

Enter number of elements in array 1 : 3

Enter array 1 in sorted order :1

2

3

Enter number of elements in array 2 : 4

Enter array 2 in sorted order :4

5

6

7

First array is :123

Second array is :4567

Merged array is :1234567

...Program finished with exit code 0

Press ENTER to exit console.