

#include<stdio.h>

void main()

{

int array1[50],array2[50],merge[100],m,n,i,j,k=0;

clrscr();

printf("enter the size of the first array\n");

scanf("%d",&m);

printf("enter the elements of the first array\n");

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

{

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

}

printf("enter the size of the second array\n");

scanf("%d",&n);

printf("enter the elements of the second array\n");

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

{

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

}

i=0;

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```
[■] PP.C  
scanf("%d",&array2[j]);  
}  
i=0;  
j=0;  
while(i<m && j<n)  
{  
  
if(array1[i]<array2[j])  
{  
merge[k]=array1[i];  
i++;  
}  
else  
{  
merge[k]=array2[j];  
  
j++;  
}  
k++;  
}  
}
```

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```
    }  
    while(i<m)  
    {  
        merge[k]=array1[i];  
        i++;  
        k++;  
    }  
    while(j<n)  
    {  
        merge[k]=array2[j];  
        j++;  
        k++;  
    }  
    printf("the merged array is");  
    for(k=0;k<m+n;k++)  
    {  
        printf("\n %d",merge[k] );  
    }  
    getch();  
}
```

enter the size of the first array

4

enter the elements of the first array

1

2

3

4

enter the size of the second array

5

enter the elements of the second array

5

6

7

8

9

the merged array is

1

2

3

4

5

6

7

8

9