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#include <stdio.h>
void print_array(int arr[], int n)
{
    printf("Array elements: ");
    (int i=0;i<n;i++)
    {
        printf("%d ",arr[i]);
    }
    printf("\n");
}
void sort_array(int arr[],int n)
{
    int temp;
    (int i=0;i<n;i++)
    {
        (int j=i+1;j<n;j++)
        {
            (arr[i]>arr[j])
            {
                temp=arr[i];
                arr[i]=arr[j];
                arr[j]=temp;
            }
        }
    }
    print_array(arr,n);
}
void merge_array(int arr1[], int arr2[],int arr3[],int n1,int n2)
{
    int i;
    (i=0;i<n1;i++)
    {
        arr3[i]=arr1[i];
    }
    (int j=0;j<n2;j++)
    {
        arr3[i]=arr2[j];
        i++;
    }
}
int main()
{
    int arr1[10], arr2[10],arr3[20];
    int n1,n2,i;

    printf("Enter The Number of Elements of array 1: ");
    scanf("%d",&n1);
    (n1<=10)
    {
        printf("Enter the Elements Of Array 1\n");
        (i=0;i<n1;i++)
        {
            printf("Enter the %d th element : ",i);
            scanf("%d",&arr1[i]);
        }
    }

    {
        printf("Size of Array is Lesser Than 10");
    }

    printf("Enter The Number of Elements of array 2: ");
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scanf("%d",&n2);
(n2<=10)
{
    printf("Enter the Elements Of Array 2\n");
    (i=0;i<n2;i++)
    {
        printf("Enter the %d th element : ",i);
        scanf("%d",&arr2[i]);
    }
}

{
    printf("Size of Array is Lesser Than 10");
}
printf("Array 1:\n ");
print_array(arr1, n1);
printf("Sorted Array 1:\n ");
sort_array(arr1,n1);
printf("Array 2:\n ");
print_array(arr2, n2);
printf("Sorted Array 2:\n ");
sort_array(arr2,n2);
printf("Merged Array : \n");
merge_array(arr1,arr2,arr3,n1,n2);
sort_array(arr3,n1+n2);
    0;
}
```