Merge two sorted array and store in a third array

```
#include <stdio.h>
  Void main()
  {
     Int arr1[50], arr2[50], arr3[100], m, n, I, j, k = 0;
     Printf("\n Enter size of array Array 1: ");
     Scanf("%d", &m);
     Printf("\n Enter sorted elements of array 1: \n");
     For (I = 0; I < m; i++)
    {
       Scanf("%d", &arr1[i]);
    }
     Printf("\n Enter size of array 2: ");
     Scanf("%d", &n);
     Printf("\n Enter sorted elements of array 2: \n");
     For (I = 0; I < n; i++)
       Scanf("%d", &arr2[i]);
    }
    I = 0;
    J = 0;
    While (I < m \&\& j < n)
    {
       If (arr1[i] < arr2[j])
       {
         Arr3[k] = arr1[i];
         l++;
       }
       Else
```

```
{
    Arr3[k] = arr2[j];
    J++;
  }
  K++;
}
If (I >= m)
{
  While (j < n)
  {
    Arr3[k] = arr2[j];
    J++;
    K++;
  }
}
If (j >= n)
{
  While (I < m)
  {
    Arr3[k] = arr1[i];
    l++;
    K++;
  }
}
Printf("\n After merging array is: \n");
For (I = 0; I < m + n; i++)
{
  Printf("\n%d", arr3[i]);
}
```