```
#include <stdio.h>
int main(){
    int n1 = 5, n2 = 6;
    int ar1[5], ar2[6];
    int i, j, k;
    for(i = 0; i < 5; i++)
        scanf("%d", &ar1[i]);
    for(j = 0; j < 6; j++)
        scanf("%d", &ar2[j]);
        int ar3[11];
    i = j = k = 0;
        // Keep storing the smaller number from the two arrays
        // till one of the arrays gets exhausted
        while(i < n1 && j < n2){
        if(ar1[i] > ar2[j]){
            ar3[k] = ar2[j];
            k++;
            j++;
        }
        else{
            ar3[k] = ar1[i];
            i++;
            k++;
        }
    }
        // Now, either array 1 has been exhausted or array 2 has been exhausted
        // If there are more elements in the first array read them
        // They are already sorted so just read them one by one
    while(i < n1){
        ar3[k] = ar1[i];
        k++;
        i++;
    }
        // If there are more elements in the second array read them
        // They are already sorted so just read them one by one
    while(j < n2){
        ar3[k] = ar2[j];
        k++;
        j++;
    }
    for(i = 0; i < n1+n2; i++){
        printf("%d", ar3[i]);
        if(i < n1 + n2 - 1) printf(" ");
    }
    return 0;
}
```