/*array union*/

```
#include <stdio.h>
void printUnion(int array1[], int size1, int array2[], int size2) {
 int index1 = 0, index2 = 0;
 while(index1 < size1 && index2 < size2) {
   if (array1[index1] < array2[index2])</pre>
     printf("%d ", array1[index1++]);
   else if (array2[index2] < array1[index1])
     printf("%d ", array2[index2++]);
   else {
     printf("%d ", array2[index2]);
     index1++;
     index2++;
   }
 }
  while(index1 < size1)
  printf("%d ", array1[index1++]);
 while(index2 < size2)
  printf("%d ", array2[index2++]);
}
int main(){
        int n,m;
        printf("Enter number of 1st array elements\n");
        scanf("%d",&n);
```

```
printf("Enter number of 2nd array elements\n");
       scanf("%d",&m);
  int array1[n];
  int array2[m];
       printf("Enter 1st array elemets\n");
       for(int i=0;i<n;i++)
        {
               scanf("%d",&array1[i]);
        }
        printf("Enter 2nd array elemets\n");
        for(int i=0;i<m;i++)
        {
                scanf("%d",&array2[i]);
        }
        printf("New array elements are\n");
  printUnion(array1, n, array2, m);
  return 0;
}
```

