/*array union and intersection*/

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#include<stdio.h>
void printunion(int array1[],int n,int array2[],int m)
{
        printf("the result of array union\n");
        int i=0,j=0;
        while(i<n && j<m)
        {
                if(array1[i]<array2[j])
                {
                         printf("%d\n",array1[i++]);
                }
                else if(array2[j]<array1[i])
                {
                         printf("%d\n",array2[j++]);
                }
                else
                {
                         printf("%d\n",array1[i]);
                         i++;
                         j++;
                }
        }
        while(i<n)
        printf("%d\n",array1[i++]);
        while(j<m)
        printf("%d\n",array2[j++]);
}
void printintersection(int array1[],int n,int array2[],int m)
{
        int i,j,k=0,count=0;
```

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int b[k];
        for(i=0;i<n;i++)
        {
                for(j=0;j< m;j++)
                {
                         if(array1[i]==array2[j])
                         {
                                 b[k]=array1[i];
                                 k++;
                                 count++;
                         }
                }
        }
        printf("the result of array intersection\n");
        for(i=0;i<count;i++)</pre>
        {
                printf("%d\n",b[i]);
        }
}
int main()
{
        int n,m,i,j;
        printf("enter the value of n for 1st array\n");
        scanf("%d",&n);
        printf("enter the value of m for the 2nd array\n");
        scanf("%d",&m);
        int array1[n],array2[m];
        printf("enter the values for 1st array\n");
        for(i=0;i<n;i++)
        {
                scanf("%d",&array1[i]);
```

```
printf("enter the values for 2nd array\n");
for(j=0;j<m;j++)
{
     scanf("%d",&array2[j]);
}
printunion(array1,n,array2,m);
printintersection(array1,n,array2,m);
}
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```